(2016 Batch onwards)

G 135.1/335.1/435.1/535.1/635.1 Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Com./B.B.A./B.Sc./B.C.A. Semester I - Degree Examination

October – 2018

ENGLISH

Time: 3 Hours **Max. Marks: 100**

UNIT - I (PROSE)

I. Answer the following in a Word/Phrase/Sentence each: (5x1=5)

1. How did William Harvey see the heart as a pump?
2. Where do the Franks stay while they are in hiding?
3. The time period of Indus civilization was divided into the early harappan, _____ , and late Harappan stages.
4. What was the newspaper circulated by Jalaluddin?
5. How much would Kalam earn after selling the tamarind seeds?

II. Answer any FIVE of the following in about 200 words each: (5x5=25)

1. Distinguish between Linear and Lateral thinking.
2. What preparations did Anne Frank's family and friends do before going into hiding?
3. How extensive was the Indus civilization? Discuss with specific references to geographical locations.
4. How did Samsuddin influence Kalam and his thinking?
5. What does Kalam's father say about prayer and spirituality?
6. Write a note on the elements that hinder problem solving.
7. Write a note on civic planning and organization of Indus civilization.

UNIT - II (POETRY)

III. Annotate any TWO of the following in about 80 words each: (2x5=10)

1. I do not envy your hat, your shoe
   Why should you envy me my small estate
2. "And lately from somewhere
   In the North, a nephew with stripes
   On his shoulder was called
   An incident on the border
   And brought back in plane
   And train and military truck"
3. "Friend-there's yogurt on the last course of rice
   Today the arrangement on your plate was not properly ordered
   Are you going to tell me what mistakes I made?
   Are you going to tell me my mistakes?"

Contd...2

IV. Answer any THREE of the following in about 120 words each: **(3x5=15)**

1. Write a note on the conflict presented in "The Justice of peace".
2. Describe the ancestral house as a metaphor of Indian culture.
3. What are the restrictions placed upon the girl by her mother?
4. How significant is the title of the poem "Bosom Friend"?

UNIT - III (SHORT – STORY)

V. Answer any THREE of the following in about 120 words each: **(3x5=15)**

1. What is the climax of the story "After Twenty Years"?
2. Discuss the prominent themes in the story "After Twenty Years".
3. Write a note on the Father in the story "My Beloved Charioteer".
4. How is the theme of Male oppression brought in the short story "My Beloved Charioteer"?

Unit IV (Grammar and Vocabulary)

VI. Fill in the blanks with the appropriate antonyms given in brackets: **(3x1=3)**

1. Man did not create Nature, therefore he does not have a right to _____ it.
2. I packed my Vital belongings and discarded the _____ ones.
3. He had a _____ to every problem

(expect, destroy, parm, despair, strength, use less, solution)

VII. Fill in the blanks with appropriate synonyms given in brackets: **(3x1=3)**

1. He found it hard to *comprehend*. _____.
2. The *Citadel* was high above the ground. _____.
3. The boy looked *feeble* after suffering from a bout of Malaria. _____.

(fortress, understand, sick, digest, weak)

VIII. Select appropriate words to replace the phrase underlined in the following sentences: **(4x1=4)**

1. The Gobi desert is a result of *extreme dryness*.
2. The author of the book is of *unknown name*.
3. They planned to open the shop near *an area containing houses*.
4. He acted *on his own free will.*

(ghost, voluntarily, dessication, anonymous, building, residential, heat)

Contd...3

IX. Fill in the blanks with appropriate tense forms of verbs: **(10x½=5)**

1. Velan was too old. His hut _____ (be) leaky and he _____ (has) no energy to put up a new thatch. So he _____ (shift) his residence to the front of the house. It was a deep verandah that _____ (run) on three sides. When the mood seized him he _____ (open) the house and had the floor _____ (sweep) and scrubbed. But gradually he _____ (give) up this practice. Years and years _____ (pass) without any change. It _____(come) to be known as "Ghost house" and people avoided it. Velan _____ (find) nothing to grumble in this state of affairs.

X. Choose the right form of verbs given in brackets: **(5x1=5)**

1. Tobacco and alcohol _____ (is, are) injurious to health.
2. One of my friends _____ (have, has) gone to Zambia.
3. He _____ (like, likes) drinking coffee.
4. Neither Afzal nor you _____ (has, have) been selected.
5. Each of the boys _____ (was, were) given a fountain pen.

XI. Fill in the blanks with appropriate prepositions: **(2x1=2)**

1. That is what I was searching _____.
2. There is no sugar _____ the pot.

XII. Fill in the blanks with appropriate articles: **(2x1=2)**

1. He reads _____ Bible everyday.
2. This is _____ historic occasion.

XIII. Read the following passage and answer the questions set on it.

A European study revealed that 100% juices of fruit and vegetables are as effective as their whole fruit or vegetable counter parts in reducing risk factors related to certain diseases.

The conclusion is the result of a study designed to question traditional thinking that 100% juices play less significant role in reducing risk of both cancer and cardio-vascular diseases.

Juices are comparable in their ability to reduce risk vis-à-vis their whole fruit or vegetable counter parts. According to several researches in the united kingdom. The researchers analysed a variety of studies and that looked at risk reduction attributed to the effects of both fibre and anti-oxidants. As a result, they determined that the positive impact fruits and vegetables offered come not from just the fibre but also from the whole fruit and vegetables.

The researchers added that the positioning of fruit juices as being nutritionally inferior to whole fruits and vegetables in relationship to chronic disease development is "unjustified" and that the policies which suggest otherwise about fruit and vegetables juices, should be re-examined.

1. Give a suitable title to the passage **(1)**
2. A systematic study of a subject is _____ **(1)**

   (choose a right word from the passage)
3. What are the advantages of drinking fruit and vegetable juices? **(2)**
4. What was the outcome of the UK researcher's studies? **(2)**

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(2014 Batch onwards)

G 136.1/336.1/436.1/536.1/636.1 Reg. No. | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Com./B.B.A./B.Sc./B.C.A. Semester I - Degree Examination

October – 2018

HINDI

Time: 3 hrs. **Max Marks: 100**

I अ) एक वाक्य में उत्तर लिखिए - (6×1=06)

1. वर्ण कितने प्रकार के होते हैं ?
2. व्यंजन वर्ण क्या हैं ?
3. दीर्घ स्वर कितने हैं ?
4. भाषा किसे कहते हैं ?
5. ऊष्म व्यंजन कितने हैं ?
6. संधि किसे कहते हैं ?

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए – (2×7=14)

1. स्वर की परिभाषा लिखकर भेदों को समझाइए।
2. स्वरसंधि क्या है ? भेदों को उदाहरण के साथ लिखिए।
3. संयुक्त व्यंजन किसे कहते हैं, उदाहरण के साथ स्पष्ट कीजिए।

II अ) एक वाक्य में उत्तर लिखिए - (6×1=06)

1. निरर्थक शब्द किसे कहते हैं ?
2. जातिवाचक संज्ञा किसे कहते हैं ?
3. अन्य लिंग रुप लिखिए :
   १. बकरी २. राजकुमार
4. अन्य वचन रुप लिखिए :
   १. चिडिया २. बोतलें
5. सर्वनाम के कितने भेद हैं ?
6. गुणवाचक विशेषण क्या हैं ?

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए – (2×7=14)

1. शब्द किसे कहते हैं ? मुख्य भेदों पर प्रकाश डालिए।
2. विशेषण किसे कहते हैं ? उसके भेदों को उदाहरण के साथ लिखिए।
3. संज्ञा किसे कहते हैं ? उसके भेदों को स्पष्ट कीजिए।

III अ) एक वाक्य में उत्तर लिखिए - (6×1=06)

1. हामिद की दादी का नाम क्या है ?
2. 'ईद का त्योहार' कहानी के लेखक कौन है ?
3. मोहन के बेटे का नाम क्या है ?
4. किसकी अगवानी करने के लिए मक़ील में जमी जनता आतुर थी ?
5. बाज़ार में क्या चली है ?
6. सेठ ज्वाला प्रसाद कौन थे ?

Contd..2

आ) किसी एक पर टिप्पणी लिखिए – (1×6=06)

1. प्रेमचन्द। 2. सियारामशरन गुप्त। 3. जैनेन्द्रकुमार।

इ) किसी एक की संदर्भ सहित व्याख्या कीजिए – (1×6=06)

" आवेग में ही सौन्दर्य का चरम विकास है। आवेग निकल जाने पर केवल कीचड रह जाता है।"

अथवा

"तुम मुझे मार सकते हो, परन्तु रुपये नही छीन सकते। ये रुपये मेरे बाप के कलेजे के खून में तर है।"

ई) किसी एक प्रश्न का उत्तर लिखिए – (1×12=12)

1. "बैल की बिक्री" कहानी का सारांश लिखकर, उसकी विशेषताओं पर प्रकाश डालिए।
2. "पाजेब" कहानी का सारांश लिखिए।

IV अ) एक वाक्य में उत्तर लिखिए - (6×1=06)

1. मिस्टर शामनाथ के घर पर क्या थी ?
2. सब जगह क्या फैला हुआ है ?
3. राज्य के अखबारों में किस तरह की खबरे छपी ?
4. गजाधर बाबू कहाँ नौकरी करते थे ?
5. 'वेलेंटाइन डे' कहानी का रचनाकार कौन है ?
6. 'जुबैदा' कौन है ?

आ) किसी एक पर टिप्पणी लिखिए – (1×6=06)

1. उषा प्रियबदा 2. कमल कुमार 3. हरिशंकर परसाई।

इ) किसी एक की संदर्भ सहित व्याख्या कीजिए – (1×6=06)

"सभी–खर्चे तो वाजिब हैं, किसका पेट काटूँ ? यही जोड–गाँठ करते–करते बूढ़ी हो गई, न मन का पहना, न ओढ़ा।"

अथवा

"बाप बननेवाले हो। रिपोर्ट पॉजिटिव है। मिसेज ठाकुर आई थी। कमजोर है, कुछ विटामिन वगैर। लिख दिए हैं।"

ई) किसी एक प्रश्न का उत्तर लिखिए – (1×12=12)

1. 'वापसी' कहानी का सारांश लिखकर कहानीकार का उद्देश्य स्पष्ट कीजिए।
2. 'चीफ की दावत' कहानी का सारांश अपने शब्दों में लिखिए।

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(2015 batch onwards)

G 537.1/637.1 Reg.No. | | | | | | |

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)

ಮಂಗಳೂರು

ಬಿ.ಎಸ್ಸಿ./ಬಿ.ಸಿ.ಎ. – ಒಂದನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ

ಅಕ್ಟೋಬರ್ – 2018

ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ – 1

ಸಮಯ: 3.00 ಘಂಟೆ **ಗರಿಷ್ಠ ಅಂಕ: 100**

I. ಕಾವ್ಯ ಭಾಗ – 1

ಅ. ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (10×2=20)

1. ಬಸವಣ್ಣನವರ ವಚನಗಳಲ್ಲಿ ಆಂತರಂಗ ಶುದ್ಧಿ ಮತ್ತು ಭಕ್ತಿಯ ಡಾಂಭಿಕತೆಯ ಚಿತ್ರಣ ಹೇಗೆ ಅನಾವರಣಗೊಂಡಿದೆ?
2. 'ಆಹ್ವಾನ' ಕವಿತೆಯ ಆಶಯವನ್ನು ವಿವರಿಸಿ
3. 'ಮುಟ್ಟಾಟ' ಕವಿತೆಯಲ್ಲಿ ಮಕ್ಕಳ ಕ್ರೀಡೆಯನ್ನು ಸಂಬಂಧಗಳ ನಿಟ್ಟಿನಲ್ಲಿ ಹೇಗೆ ಅಳವಡಿಸುವ ಪ್ರಯತ್ನವನ್ನು ಮಾಡಿದ್ದಾರೆ? ವಿವರಿಸಿ

ಆ. ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಒಂದನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (3×1=3)

1. 'ಯೋಧ ಮತ್ತು ಹೆಂಗಸು' ಕವಿತೆಯಲ್ಲಿ ಪಂಪನನ್ನು ಹೇಗೆ ಚಿತ್ರಿಸಲಾಗಿದೆ?
2. ರಾಘವಾಂಕನ ಕುರಿತು ಬರೆಯಿರಿ

ಇ. ಕೆಳಗಿನ ಎರಡು ಪದ್ಯಗಳಲ್ಲಿ ಒಂದರ ಭಾವಾನುವಾದ ಸಂದರ್ಭ – ಸ್ವಾರಸ್ಯಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ (6×1=6)

1. ನೆಲಕ್ಕಂಟಿ ಬಿದ್ದ ಆಕಾಶಯಾನದ ಕನಸು
   ಜೆಟ್ ವಿಮಾನವೇರಿಕೊಂಚದೂರ
   ತೇಲಿ ಮಣ್ಣಿಗೆ ಮರಳಿ, ರಾಕೆಟ್ಟು ಜಗಿದುಗುಳಿ
   ತಿಂಗಳಿಗೆ ಬಡಿವಾಧುನಿಕ ವಿಕಾರ

2. ಸುತನನಡಿಗೆತ್ತಿಕೊಂಬ ನಡೆಗೆಡುವ ನಿಜ
   ಸತಿಯನಡಿಗಡಿಗೆ ಬೋಳ್ಯೆಪ ಬಳಲುವ ಚಮೂ
   ಪತಿಯನಡಿಗಡಿಗೆ ಬಿಡದುಪಚರಿಪ ಚಿತ್ತದಾವೇಶದಗ್ರದ ಭರದಲಿ
   ಅತಿ ಬಿಸಿಲು ಗಾಳಿ ಕಲುಮುಳಕ್ಷುತ್ಪಿಪಾಸೆ ಜಾ
   ಡ್ಯತೆಗಳೆಂಬಿಂತಿವಱ ಕಾಟದಿಂ ಮೊಳೆವ ಧಾ
   ವತಿಯನಱಯದೆ ನಡೆದನಕಟಕಟ ಭೂಮಿಪಂ ಕಾಲಕ್ಕೆ ಕೈ ಮುಗಿಯುತ

ಈ. ಕೆಳಗಿನ ಪದ್ಯದ ಮೂರು ಸಾಲುಗಳಲ್ಲಿ ಎರಡರ ಸಂದರ್ಭ – ಸೂಚಿಸಿ ಸ್ವಾರಸ್ಯವನ್ನು ವಿಶ್ಲೇಷಿಸಿ. (3×2=6)

1. ಹೆರರಿಗಿಕ್ಕಿ ಹೆಗ್ಗುರಿಯಾಗಿ ಕೆಡಬೇಡ
2. ಎತ್ತರದ ಶಿವಿರದಲಿ ಊರಬೇಕು
3. ಎಚ್ಚರಿಕೆಯ ಮರೆತು ಕೆಟ್ಟೆ

ಉ. ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (1×5=5)

1. ರಾಘವಾಂಕನ ಕಾಲ ಯಾವುದು?
2. ದಂಡಕನು ಯಾವ ರಾಜನ ಮಗ?
3. 'ಬಕುಳದ ಹೂವುಗಳು' ಸಾಹಿತ್ಯದ ಯಾವ ಪ್ರಕಾರಕ್ಕೆ ಸೇರಿದ ಕೃತಿಯಾಗಿದೆ?
4. 'ಬತ್ತಿಸರಾಗ' ಯಾರ ಅನುಭವ ಕಥನ?
5. ಕನ್ನಡಕ್ಕೆ ಎಂಟನೆಯ ಜ್ಞಾನಪೀಠ ಪ್ರಶಸ್ತಿ ತಂದು ಕೊಟ್ಟವರು ಯಾರು?

Contd..2

II. ಗದ್ಯ ಪ್ರಬಂಧಗಳು

ಅ. ಕೆಳಗಿನ ಎರಡನೆಯ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಒಂದಕ್ಕೆ ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (10×2=20)

1. ಕನ್ನಡ ಜಾನಪದ ಗಾಯಕಿಯರ ಸಾಧನೆಯ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ ಮಾಡಿಕೊಡಿ.
2. ಅಕ್ಕಿ ಗೊಂಬೆಯನ್ನು ತಯಾರಿಸುವ ವಿಧಾನವನ್ನು ಸ್ಪಷ್ಟಪಡಿಸಿ.
3. 'ಬಂದನೊ ಶಿವದೂತನು' ಪ್ರಬಂಧದ ಸಾರಾಂಶವನ್ನು ಬರೆಯಿರಿ.

ಆ. ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಸಮರ್ಪಕ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (6×1=6)

1. ಕನ್ನಡ ಭಾಷೆಯು ಅಭಿವ್ಯಕ್ತಿಯ ಹಂತಕ್ಕಿಂತ ಮೇಲಿನ ಅಭಿವ್ಯಾಪ್ತಿಯನ್ನು ತಲುಪಿದೆ.
2. ಅಕ್ಕಿ ಗೊಂಬೆ ಹಂತಕ್ಕಿಂತ ನಿಮ್ಮ ಅಭಿಪ್ರಾಯಗಳನ್ನು ಬರೆಯಿರಿ.

ಇ. ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗೆ ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (1×4=4)

1. 'ಅಸುರ ಪಾಲ್ಕುರಿ' ಎಂದರೆ ಯಾವುದು ಎಂದು?
2. ಗಣಪತಿ ಭಟ್ಟರು ಕೈಬೆಸಗೆಯನ್ನೆಲ್ಲಿಂದ ಹೇಗೆಲ್ಲಾ ಪಾಠಹೇಳುವ ಮಾದರಿಯಲ್ಲಿ ಪಡೆದರು ಎಂದು?
3. ಡಾ. ಕೆ.ಎ. ಸುಬ್ರಹ್ಮಣ್ಯ ಎಂಬವರು ಏನೆಲ್ಲವನ್ನು ಸಂಗ್ರಹಿಸಿದ್ದಾರೆಂದು, ಜಾನಪದ ಶೋಧಕರಿಗೆಲ್ಲಾ ಸೇರಿದ ಸಂಪತ್ತಾಗಿದೆ?
4. ಲಂಬಾಣಿಯ ಬೆಡಗಿಗೆ ಹೆಸರಾದ ವಿಶೇಷವಾದ ಹೆಸರೇನು?

III. ಕಥೆ

ಅ. ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದಕ್ಕೆ ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (10×1=10)

1. ಸಾಮಾಜಿಕ ವ್ಯವಸ್ಥೆಯ ಶೋಷಣೆಯ ಬಲಿಪಶುವನ್ನು 'ಬಂಧಮುಕ್ತ' ಕತೆಯು ಹೇಗೆ ಚಿತ್ರಿಸಿದೆ? ವಿವರಿಸಿ.
2. ಶೀಲಾಳನ್ನು ಸಾಮಾಜಿಕವಾಗಿ ಸ್ಥಾಪಿಸುವುದು ವಿವರಿಸಿ.

ಆ. ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡಕ್ಕೆ ಸಮರ್ಪಕ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (3×2=6)

1. ಜಾತ್ಯತೀತ ಸಮಾಜ ಸ್ಥಾಪನೆಯ ಅವಶ್ಯಕತೆ
2. ಅಂಗಡಿ ಭಾಡಿಪ್ಪನ ಬೈಕೆಸ್ಟಿನ ಹಿಂದಿರುವ ಬರೆಯಿರಿ
3. ಹೊಲಗಾಲಿ ಮಾಡಿಕೊಳ್ಳಲು ಮಾಡಿಸಿದ ಬೇಕಾದ ಕೆಲಸದ ಹಿಂದಿರುವ ಬರೆಯಿರಿ

ಇ. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಮಾತ್ರ ನಿಮ್ಮ ಉತ್ತರಿಸಿ (1×4=4)

1. ತಾಯಪ್ಪನ ಹೆಂಡತಿಯ ಹೆಸರೇನು?
2. ಪ್ರಾಣಿಯಾಗಿ ಬಲ್ಲಿಳಿದ 'ಬಂಗಾರಿ' ಕೈಗೆ ಯಾವ ಪ್ರಶ್ನೆ ಬಂದಿದೆ?
3. 'ಸಗ್ಗ' ಕೈಯನ್ನು ಬರೆದ ಲೇಖಕ ಯಾರು?
4. ಪರಿಸರಗಳಿಂದ ಕಸ್ತೂರಿಬಾ ಯಾರ ಹೆಸರಿದ್ದರು?

IV. ವ್ಯಾಕರಣ ಕನ್ನಡ

ಅ. ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದಕ್ಕೆ ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (7×1=7)

1. ಪ್ರಬಂಧ ಎಂದರೇನು? ಅದರ ಲಕ್ಷಣ ಮತ್ತು ಪ್ರಕಾರಗಳನ್ನು ವಿವರಿಸಿ.
2. ಕನ್ನಡದಲ್ಲಿ ವಿಜ್ಞಾನ ಅನುವಾದ ಬರವಣಿಗೆ ಬೆಳೆದು ಬಂದ ಕ್ರಮವನ್ನು ವಿವರಿಸಿ.

ಆ. ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಮಾತ್ರ ನಿಮ್ಮ ಉತ್ತರಿಸಿ (1×3=3)

1. ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯ ಪ್ರಬಂಧಕ್ಕೆ ಮಾಡಬೇಕಾಗಿರುವ ಒಂದು ಕೈಪಿಯನ್ನು ಹೆಸರಿಸಿ.
2. 'Portrait Essay' ಎಂದರೆ ಕನ್ನಡದ ಯಾವ ಪದ ಬಳಸುವುದು?
3. ಪದ್ಮಿನಿಯು ವಿಜ್ಞಾನವಿಷಯವನ್ನು ಪ್ರಕಟಿಸುವ ಪತ್ರಿಕೆಯ ಹೆಸರೇನು?

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(2016 onwards)

G 538.1 Reg. No:

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2018

SANSKRIT

Time: 3 Hours **Max. Marks: 100**

1 *श्लोकत्रयं कर्णाटकभाषया आङ्ग्लभाषया वा अनुवादं कृत्वा विवृणुत ।* **(3x8 =24)**

1.1 श्वशुरगृहनिवासः स्वर्गतुल्यो नराणां यदि वसति दिनानि त्रीणि वा पञ्च सप्त ।
मधुदधिघृतधारा क्षीरसारप्रवाहः तदुपरि दिनमेकं पादरक्षाप्रयोग : ॥

1.2 सहधर्मिणीं वनान्ताद्दशरथसूनोर्जहार दशवक्त्रः ।
बन्धनमाप समुद्रो न दुर्जनस्यान्तिके निवसेत् ॥

1.3 दीपप्रज्वलनाय किञ्च तिलकं वक्त्रे निवेष्टुं तथा
कर्तुं भोजनपत्रसीवनमथो दन्तस्य निर्घर्षणम् ।
कर्तुं भेषजलेपनं रचयितुं संमार्जनि प्रायशः
त्वन्नात्रावयवः प्रयोजनकरः लोकस्य नानाविधैः ॥

1.4 दिल्लीश्वरो वा जगदीश्वरो वा मनोरथान् पूरयितुं समर्थः ।
अन्यैर्नृपालैः परिदीयमानं शाकाय वा स्यात् लवणाय वा स्यात् ॥

1.5 शरतल्पमधियानाद्भीष्मादाकर्ण्य धर्मजो धर्मान् ।
दुःखं जहौ दुरन्तं प्रष्टव्याः सत्पथं वृद्धाः ॥

2 *पञ्चानां सन्दर्भसहितविवरणं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।* **(5x4=20)**

2.1 दुष्टे दण्डः प्रयोक्तव्यः।
2.2 गजमाकर्णन् सिंह इव नरो मार्यत ।
2.3 ताडनार्थमुदरास्ययोरपि ।
2.4 सुभगे! अहं इन्द्रः देवानाम्, भजस्व माम् ।
2.5 यः सूर्यं य उषसं जजान यो अपां नेता स जनास इन्द्रः ।
2.6 त्वां वीक्ष्य भीताः किल यान्ति भूताः ।
2.7 मधुरोक्तिभिरनुनीतः साम्ना मूर्खं वशे कुर्यात् ।

3 *द्वयोः संस्कृतभाषया टिप्पणीं लिखत ।* **(2x6=12)**

3.1 व्यायामविधिः ।
3.2 उपनिषद् ।
3.3 श्वशुरगृहनिवासः ।
3.4 संमार्जनीस्तुतिः ।

4 *चतुर्णां कर्णाटकभाषया आङ्लभाषया वा प्रबन्धरूपेण उत्तरयत ।* **(4x8=32)**

4.1 आचार्यानुशासनं पाठस्य सारं लिखत ।
4.2 नहुषस्य कथां विवृणुत ।
4.3 सौभरिचरितं पाठस्य कथासारं लिखत ।
4.4 संमार्जनीस्तुतिः विषये पाठोक्तरीत्या प्रबन्धं लिखत ।
4.5 नीतिशतकं पाठे उक्तानां नीतीनां विषये प्रबन्धं लिखत ।
4.6 दिनचर्या पाठोक्त जीवनमौल्यानि विवृणुत ।

Contd....2

5 *रिक्तस्थानानि पूरयत । (द्वादशानाम्)* (12x1=12)

5.1 _____ देवराज्यं पर्यत्यजत् । (इन्द्रैः, इन्द्रस्य, इन्द्रः)
5.2 _____ अतोऽपि पूज्या । (त्वम्, तेन, तस्य)
5.3 जगदीशः _____ पूरयितुं समर्थः । (मनोरथान्, मनोरथः, मनोरथात्)
5.4 सत्यं वद धर्मं _____ । (चर, चरेत्, चरितम्)
5.5 मम _____ उपगतम् । (दुःखाय, दुःखम्, दुःखेन)
5.6 ब्राह्मे _____ उत्तिष्ठेत्स्वस्थो रक्षार्थमायुषः । (मुहूर्ते, मुहूर्तम्, मुहूर्तस्य)
5.7 भवत्याः साक्षात् गृहान्तः _____ । (परिशोधयन्ति, परिशोधनेन, परिशोधनस्य)
5.8 _____ वा स्यात् लवणाय वा स्यात् । (शाकाय, शाकात्, शाकस्य)
5.9 देवपितृकार्याभ्यां न _____ । (प्रमदितेन, प्रमदितव्यम्, प्रमदितम्)
5.10 ब्रह्म च उत्सादनं _____ । (जगाम, जगति, जगमान्)
5.11 तस्मै _____ विकटनितम्बा । (दत्ता, दत्तान्, दत्तः)
5.12 जगत् अनीश्वरं _____ । (बभूवम्, बभूवतुः, बभूव)
5.13 _____ अन्तकस्सन्निविष्टः । (भम्भावल्येषु, भम्भावल्याम्, भम्भावल्याः)
5.14 आचार्यः अन्तेवासिनम् _____ । (अनुशास्ति, अनुशासितव्यम्, अनुशासितेन)
5.15 देवान् रजस्तमश्च _____ । (आविष्टः, आविवेश, आविवेशात्)

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(2018 Onwards)

G 139.1/339.1/539.1

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Com./B.Sc. - Semester I - Degree Examination
October - 2018
KONKANI

Time: 3 Hours **Max. Marks: 100**

I ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ **(1×5=5)**

1. ಕೋಣ್ ನಿದೊನ್ ಪಡ್ಲಾ ?
2. ಮಾತೆ ಕೊಂಕಣಿ ಭಾಶೆಚೆ ರುದಾನ್ ಕವನಾಂಚೊ ಕವಿ ಕೋಣ್ ?
3. ನೋಟ್ ಆನಿ ನೋಟ್ಸ್ (notes – ಪೈಶೆಂ) ವ್ಯತ್ಯಾಸ ಕಳಯಾ.
4. ಚಾರ್ ದೀಸ್ ಕಶೆಂ ಸಾರೊಂವ್ಕ್ ಜಾಯ್ ?
5. ಮಿರ್ನಿ ಖಿಂಯ್ ಚಡ್ತಾ ?

ಆ) ಖಿಂಚಾಯ್ <u>ದೋನ್</u> ಸವಾಲಾಂಕ್ ಜಾಪಿಂ ಬರಯಾ **(5×2=10)**

6. 'ಮಿರ್ನಿಚೊ ಶೆರ್ಮಾಂವ್' ಕವನಾಚೊ ಸಾರಾಂಶ್ ಸಂಗ್ರಹ್ ಕರ್ನ್ ಬರಯಾ.
7. ಚುನಾವ್ ಪ್ರಕ್ರಿಯಾ ನಂತರ್ ಗಾಂವ್ ಕಸೊ ನಿದೊನ್ ಪಡ್ತಾ ?
8. 'ಚಾರ್ ದೀಸ್' ಆನಿಂ 'ಜಿಂದಗಿ' – ಶಬ್ದೀರ್ ಬಾಯ್ದಾ ಕಶೆಂ ವಿವರಾಯ್ತಾ ?

ಇ) ಖಿಂಚಾಯ್ <u>ದೋನ್</u> ಕವನಾಂಚೆ ಸ್ಟಾರಸ್ಯ್ ಬರವ್ನ್ ವಿವರ್ಸಿಯಾ **(5×2=10)**

9. ವಿಲ್ಲಿ, ಮಿಲ್ಲಿಕ್ ಕಾಜರ್ ಅಸಾ
   ತಿಸ್ರಿ ಚೀಟ್ ಆಜ್ ಜಾತಾ
   ಸಾಂ ಪೆದ್ರು ಸಾಂ ಪಾವ್ಲಾಚೆಂ ಫೆಸ್ತ್
   ಸುಕ್ರಾರಾ ದೀಸ್ ಯೆತಾ.
10. ಹ್ಯಾ ಗಾಂವಾಂತ್
    ಹ್ಯಾ ಸುತ್ತುರಾಂತ್
    ಹ್ಯಾ ಭೊಂವಾರಾಂತ್
    ಲೋಕ್ ಸಗ್ಳೊ ಸತ್ಚ್ ಉಲಯ್ತಾ.
11. ತೊಂಡಾಂತ್ ಭರ್ಲ್ಲಿ ಪೀಕ್ ಥುಕುನ್
    ಕಾತ್ರಿಚ್ಯಾ ಚಕಚಕ ಅವಾಚಾಕ್
    ಹಳೂ ಅಪ್ಲಿ ಕೆಸೆಟ್ ಲಾಯ್ತಾ.

ಈ) ಖಿಂಚಾಯ್ <u>ಎಕಾ</u> ಕವಿಚಿಂ ಪರಿಚಯ್ ದಿಯಾ **(5×1=5)**

12. ಟೈಟಸ್ ನೊರೊನ್ಹಾ
13. ಶಬ್ದೀರ್ ಬಾಯ್ದಾ

II ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ **(1×6=6)**

14. ಬಂಗ್ಲ್ಯಾತ್ ಕಿತೆಂ ಘಡ್ತಾ ?
15. ಕೊಣಾಚ್ಯಾ ಮೊರ್ನಾಕ್ ಲೇಖಿಕ್ ಹಾಜರ್ ಜಾತಾ ?
16. ಪಿಚ್ಚಾನ್ ಖಿರ್ಸಾ ಗುಡ್ಯಾರ್ ಕಿತೆಂ ಪಳಯಿಲ್ಲೆಂ ?
17. ಸಿಜ್ಯೆಸ್ ಪೂರ್ಣ ನಾಂವ್ ಕಿತೆಂ ?
18. ಎಸ್ತೆಲಾಕ್ ಭೆಂಕ್ಣಾಂವ್ಕ್ ಶಿಲಾ ಕಿತೆಂ ಉಪಾಯ್ ಸಾಂಗ್ತಾಂ ?
19. ಆಬ್ ಧುವೆಕ್ ಕಿತ್ಯಾಕ್ ಕಾಂಠಾಳ್ತಾಲೊ ?

Contd...2

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(5×2=10)

ಆ) ಖಂಚಾಯ್ ದೋನ್ ವಾಕ್ಯಾಂಚೊ ಸ್ವಾರಸ್ಯ ಬರಯಾ

20. ಮಾವ್ಶೆನ್ ಮ್ಹಾಕಾ ಕಿತ್ಯಾಕ್ ಮಾರ್ಲೆಂ ?
21. ಖಂಡಿತ್ ಹಾಂತು ಮ್ಹಾಕಾ ಕಸ್ಲೆಂಚ್ ಬಾಧಕ್ ನಾಂ ಮೂ ?
22. ಹಾಂವ್ ತುಜೊ ಸಾತು ಸ್ವಯ್‌ಗೀ ಆಬಾ ?

(5×1=5)

ಇ) ಖಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ

23. ಖುಸರ್ ಗುಡ್ಯಾರ್ ಚೆಲ್ಯಾ ಅಕ್ರಮಾಚೊ ಪರಿಣಾಮ ಪಿಟ್ಯಾ ವಯ್ರ್ ಕಸೊ ಜಾತಾ ?
24. ಲೇಖಿಕ್ ಆನಿ ಆಬಾ ಥಂಯ್ ಆಸ್ಚೊ ಸಂಬಂಧ್ ವಿವರ್ಸಿಯಾ.

(4×1=4)

ಈ) ಖಂಚಾಯ್ ಎಕಾಚೆ ಪಾತ್ರಾಚೆ ಪರಿಚಯ್ ಕರಾ

25. ಉಮ್ಮ
26. ಪೆರಾಂ ರೂಕ್

(1×5=5)

III ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ:

27. ಮ್ಹಾತಾರೊ ಚರ್ಬಿಲಾ ನಾಟಕಾಚೊ ಬರಯ್ಣಾರ್ ಕೋಣ್ ?
28. ಲಿಯಾಬಾಚೊ ಈಷ್ಟ ರಿಚಾಯರ್ಡ್ ಮೇಸ್ತ್ರಿ ಕೋಣ್ ?
29. ವೆರೋನಿಕಾಕ್ ಕೋಣ್ ಕುಮೊಕ್ ಕರ್ತಾ ?
30. ವೆರೋನಿಕ ದೊಳ್ಯಾಚ್ಯಾ ಅಪರೇಷನಾ ಖಾತಿರ್ ಖಂಯ್ಸರ್ ವೆತಾ ?
31. ವಿಕ್ಟರ್ ಕಿತೆಂ ಫಿರ್ಯಾದ್ ಘೆವ್ನ್ ಆಯಿಲ್ಲೊ ?

(5×2=10)

ಆ) ಖಂಚಾಯ್ ದೋನ್ ವಾಕ್ಯಾಂಚೆ ಸಂದರ್ಭ್ ಕಳವ್ನ್ ಸ್ವಾರಸ್ಯ ಬರಯಾ

32. ಜೇನಿಯಸ್ ಮ್ಹಳ್ಯಾರ್ ಭಾರಿ ಬುದ್ವಂತ್.
33. ಕೊಂಬಿ ಫರಾ ಆಸಾಗೀ ?
34. ಯೂ ಬಿಕೇಮ್ ಫೂಲ್ ಭಾವೊಜಿ.

(10×1=10)

ಇ) ಖಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ

35. ವಾಯ್ಲೆಟ್-ವಿಕ್ಟರ್ ನಾಟಕಾಂತು ವಿಶಿಷ್ಟ ಥರಾನ್ ಪಾತ್ರ್ ಘೆತಾತ್ ಕಳಯಾ.
36. 'ಹೆಂ ಬೊರೆ ಆಸಾ' ಆಲ್ಬರ್ಟಾಮಾಚೊ ಪಾತ್ರ್ ನಾಟಕಾಂತ್ ಕಸೊ ಸೊಬ್ತಾ ? ವಿವರ್ಸಿಯಾ.

(1×5=5)

IV ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ:

37. ನಾಮಪದ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ ?
38. ಸ್ವರಾಚೆ ವ್ಯಾಖ್ಯೆ ದಿಯಾ.
39. ಏಕವಚನ್ ಆನಿ ಬಹುವಚನಾಕ್ ಏಕ್ ಉದಾಹರಣ್ ದಿಯಾ.
40. ಪ್ರಶ್ನಾರ್ಥಕ್ ಸರ್ವನಾಮ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ ?
41. ಕೊಂಕ್ಣಿ ವರ್ಣಮಾಲೆಂತ್ ಕಿತ್ಲಿ ವರ್ಣ ಆಸಾತ್ ?

(5×3=15)

ಆ) ತೀನೀ ಸವಾಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ

42. ಕೊಂಕ್ಣೆಚೆ ವರ್ಣಮಾಲಾ ಬರಯ್.
43. ಕೊಂಕ್ಣೆ ಲಿಂಗ್ ಉದಾಹರಣಾ ಸಂಗಿಂ ಬರಯಾ.
44. ನಾಮಪದ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ ? ಆನಿ ತಾಂತ್ಲೆಂ ವರ್ಗ್ ಉದಾಹರಣಾ ಸಂಗಿಂ ವಿವರ್ಸಿಯಾ.

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(2016 Batch onwards)

G 140.1 Reg. No. | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A. /B.Sc./B.Com./B.B.A./B.C.A. - Semester I -Degree Examination
October - 2018

ADDITIONAL ENGLISH

Time: 3 hrs. **Max Marks: 100**

UNIT - I

(Short Story)

I Answer the following questions in about 150 to 200 words each: **(2x5=10)**

1. Sketch the character of Sayeda and her brother Eklas in the story *"Shahjahan and His Private Army"*
2. Define magic realism and explain the short story *"The Birds of the God"* as an apt example of the genre.

UNIT – II

(Poetry)

II Answer the following: **(1x5=5)**

1. In *"Anthem for Doomed Youth"* the term "passing bills" means:
   a) Bells attached to fast tanks
   b) Funeral bells
   c) Bells rung for weddings
2. Who is the speaker in the poem "If" and to whom is he or she speaking?
   a) Husband is speaking to his wife
   b) Father is speaking to his son
   c) Poet is speaking to nature
   d) Son is speaking to his father
3. The words, 'place' and 'planning', residues' and 'remain' used in the poem *"Philosophy"* are examples for ----------
   a) Simile b) Personification c) Alliteration d) Anaphora
4. The poem *"Philosophy"* states the superiority of --------- over philosophy.
5. Who will mourn for the dead soldiers in *"Anthem for Doomed Youth"*
   a) Their young wives
   b) Their parents
   c) Shells and bugles.

III Answer any <u>THREE</u> of the following in about 100 to 150 words each: **(3x5=15)**

1. What Images are used in the poem *"Anthem for Doomed Youth"* by Wilfred Owen? Explain.

Contd...2

2. How does Wilfred Owen contrast traditional funeral ceremonies with death on the battlefield?
3. How does Nissim Ezekiel philosophise rather simple argument "what cannot be explained, do not explain" in the poem *"Philosophy"*?
4. What is meant by 'Dr, being hated, don't give way to hating,/and yet don't look too good, nor talk too wise'.

IV Answer any ONE of the following questions in about 250 to 300 words: **(1x10=10)**

1. Although Wilfred Owen was a soldier he is an anti-war poet. Support your opinion with reference to the poem *"Anthem for Doomed Youth"*.
2. Attempt a critical analysis of the poem "If".

UNIT – III

(Novel)

V Answer the following questions: **(10x1=10)**

1. What is the name of the school Holden is attending at the beginning of his story?
   a) The Whooton School b) Pencey Prep
   c) Don Bosco School d) Elkton Hills
2. Once, back in New York, the first person Holden tries to invite for a drink is
   a) A cab driver b) Faith Cavendish c) Carl Luce d) Sally Hays
3. The elevator operator at the Edmont offers to get Holden
   a) Drugs b) Complimentary Breakfast c) A prostitute d) Movie tickets
4. Who is Jane Gallagher?
   a) An old friend of Holden b) Holden's girlfriend
   c) A prostitute d) None of the above
5. What record is broken?
   a) Shirley Temple b) Shirley Beans c) Frank Sinatra
   d) Flutwood Hac e) Lady Gaga
6. Which word best explains the tone of *Catcher in the Rye*?
   a) Hopeful b) Cynical c) Joyful d) Hateful
7. What color is Holden's hat?
   a) Orange b) Red c) Blue d) Pink e) Purple
8. Who is Mr. Antolini?
   a) A neighbor b) A psychotherapist
   c) An English teacher from a school Holden used to attend d) A dog
9. Holden's favourite word is
   a) Superficial b) Booger c) Phony d) Whom
10. What did Allie write on his baseball gloves?
    a) Bible verses b) Baseball stats c) Poems d) The name of girls he liked

Contd...3

VI Sketch the character of any TWO of the following in about 150 to 200 words each: **(2x5=10)**

1. Mr. Antolini
2. Jane Gallagher
3. Holden Caulfield

VII Explain the context of any TWO quotations in about 150 words to 200 words each: **(2x5=10)**

1. "she is a dancer," I said. "Ballet and all. she used to practice about two hours every day, right in the middle of the hottest weather and all. She was worried that it might make her legs lousy – all thick and all. I used to play checkers with her all the time".
2. You know those ducks in that lagoons right near central park south? That little lake? By any chance, do you happen to know where they go, the ducks, when it gets all frozen over?
3. All the kids kept trying to grab for the gold ring and so was old Phoebe, and I was sort of afraid she'd fall off the goddam horse, but I didn't say anything or do anything. The thing with kids is, if they want to grab for the gold ring, you have to let them do it, and not say anything. If they fall off, they fall off, but it's bad if you say anything to them

VIII Answer any ONE of the following questions in about 250 to 300 words: **(1x10=10)**

1. How does J.D. Salinger bring about the phoniness of the adult world in the novel *"The Catcher in the Rye"*?
2. Elaborate on Holden's understanding of authenticity and artificiality.

UNIT – IV

(Vocabulary and Comprehension)

IX Read the following passage and answer all questions: **(1x5=5)**

It took three long years for my coming into existence, after the idea of new currency was conceived. I was first conceived and named on 1st January 1999, when eleven European countries decided to have a new money form i.e Euro. My value was determined as per the conversion rate fixed by these countries in terms of their own currencies. On 1st January 2002, I was circulated as currency notes when twelve countries adopted me as their currency. Some countries opposed the idea of using me and initially refused to accept me. But now almost all European countries have accepted me as a valid currency. My broth Dollar who is in America, my brother Lira residing in Italy and my sister Sterling was quite jealous of me but soon they accepted my existence and started respecting me. I now enjoy a place of pride among all the currencies in the world and almost everyone accepts me freely.

1. When did Euro come into existence?

Contd...4

2. Euro was accepted without opposition. True/False.
3. Bring out the sibling rivalry in the family of Euro.
4. What is the present status of Euro?
5. Find a word from the passage which means 'envious'

X Choose the correct one word to replace the given sentence: (1x5=5)

1. An assembly of listeners
   a) Crowd b) Gathering c) Gallery d) Audience
2. The absence of Government
   a) Misrule b) Unruly c) Anarchy d) Chaos
3. Broadcast report or news
   a) Announcement b) Notice c) Publication d) Bulletin
4. A peculiarity of temperament
   a) Wierdness b) Eccentricity c) Anomaly d) Irregularity
5. Loss of voice
   a) Voicelessness b) Aphonia c) freeze d) Phonology

XI Use any FIVE of the idioms and phrases and frame sentences: (1x5=5)

1. He has no backbone
2. His better half
3. Bag and baggage
4. To call to the bar
5. To break the back of anything
6. To bite the dust
7. Bee - line
8. To have an axe to grind

XI Put the verb in the correct form of conditional: (1x5=5)

1. I -------- (bring) you some beer if I had known that you were thirsty.
2. You will miss the train if you -------- (not hurry).
3. If I ---------- (be) you I would go home immediately.
4. I -------- (send) Jane a postcard if I had known her address.
5. If my wife ------ (have) a dishwasher I would not have to dry up daily.

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(2017 Batch Onwards)

G 150.1 Reg. No. :

St. Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc. /B.Com./B.B.A./B.C.A. - Semester I – Degree Examination

October - 2018

FRENCH

Time: 3 hrs. **Max Marks: 100**

I Complétez le texte au future simple. **1x10=10**

C'est l'été et les vacances ..... (arriver) bientôt. Cette année, M. Dubois et sa famille ..... (passer) les vacances au bord de la mer. Sur le chemin, la famille ..... (passer) par la campagne pour rendre une petite visite à papi et mamie.

Mais avant de partir, M. Dubois donne quelques consignes à ses enfants Anne, Henry et Éric : « Nous..... (emprunter) une caravane pour y aller. Je ..... (conduire) et votre mère ..... (lire) la carte pour nous orienter. Anne, tu ..... (prendre) des photos pour faire des souvenirs. Henry et Éric, vous..... (faire) la liste des villes que nous..... (visiter). Sur la route, nous .....(acheter) de petits cadeaux pour mamie et papi. Comme ça, ils ..... (être) vraiment surprise par notre petite visite.

II Lisez le texte et répondez aux questions. **1x10=10**

Madame Fidalgo habite avenue de la liberation, au-dessus de la librairie. Chaque matin elle se réveille à 7h00. A 8h00, elle sort de chez elle et tourne à droite. Elle traverse la rue du 14juillet et elle va boire un petit café tabac. Puis, elle va achter du pain et le journal à la boulangerie. Elle traverse le carrefour en direction de la poste. Elle prend le rue du 14 juillet jusqu'au suare des marronniers. Elle s'installe sur un banc et lit son journal. A 10h00, elle rentre chez elle et à 13h00 elle déjeune. Après le déjeuner elle regarde les nouvelle à la tétévision.

a).Où habite Mme Fidalgo?
b).A quelle heure elle se reveille?
c).A quelle heure elle sort de chez elle?
d).Quel avenue elle traverse?
e).Où achète-t-elle le journal et le pain?
f).Où va-t-elle boire un café?
g).Quelle direction prend -t– elle après avoir acheté le journal?
h).Où s'installe –t-elle et qu'est-ce qu'elle fait?
i).A quelle heure rentre-t-elle chez elle?
j).Qu'est-ce qu'elle fait après le déjeuner?

III Répondez six questions aux choix. **6 X10=60**

a).Parlez du système du travail en france!
b).Que signifie l'école pour vous?
c).Parlez du chateau de Chambord!
d).Qu'est-ce que c'est une interdit? Quelles sont les interdits nécéssaires pour bien fonctionner la société?

Contd....2

e).Où se déroule festival de Cannes? Développez.
f).Parlez un(e) scientifique français(e)!
g).Présentez un presidents français!

IV Ecrivez un dialogue au choix. **1x10=10**

a).Vous voulez organiser une fête dans votre classe. Vous demandez l'autorisation au directeur mais il vous donne l'autorisation avec certains interdits.

Ou

b).Vous devez allez d'urgence dans une pharmacie. Vous garez votre voiture sur une place de stationnement interdit. Un policier arrive..... continuez.

V Ecrivez une lettre. **1x10=10**

a).Ecrivez une lettre à un(e) ami(e) pour parler de vos deriniers vacances

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(2014 Batch onwards)

G 151.1

Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Com./B.B.M./B.C.A./B.Sc. - Semester I Degree Examination
October - 2018
MALAYALAM

Time:3 hrs. **Max Marks: 100**

I. ഒന്നോ രണ്ടോ വാക്യത്തിൽ ഉത്തരമെഴുതുക **(2x5=10)**

1. അർജ്ജുനൻ സുഭദ്രയെക്കുറിച്ച് അറിയാനിടയായതെങ്ങിനെ ?
2. ദാരിദ്രമനുഭവിക്കുന്നവരാണെങ്കിലും ടെയിനിങ്ങിനു തിരഞ്ഞെടുക്കപ്പെട്ട അധ്യാപകർ സന്തോഷിച്ചതെന്തുകൊണ്ട് ?
3. ഏത് ഘട്ടത്തിലാണ് ഭാഷ കുത്തഴിഞ്ഞു കിടക്കുകയാണെന്ന് ലേഖകൻ അഭിപ്രായപ്പെടുന്നത്?
4. മർത്ത്യജന്മത്തെ കവി ഉപമിച്ചിരിക്കുന്നതെന്തിനോട് ?
5. മലയാളത്തിലെ ജ്ഞാനപീഢജേതാക്കളാരൊക്കെ ?

II. നാലെണ്ണത്തിന് സന്ദർഭവും സാരസ്യവും വ്യക്തമാക്കുക **(5x4=20)**

6. ജന്തുക്കൾ ഭക്ഷിച്ചു കാഷ്ഠിച്ചു പോകിലാം
   നന്നല്ല ദേഹം നിമിത്തം മഹാമോഹം
7. എന്നതുകൊണ്ടു നൽപങ്കജജാലങ്ങൾ
   ഇന്നുമുണ്ടാകുന്നു തോയം തന്നിൽ
8. അബടാ നീ വലിയ ബൂർഷാ ആയിപ്പോയല്ലോ...
9. ഭാഷണദശയിൽ ഭാഷ കുത്തഴിഞ്ഞു കിടക്കുകയാണ്
10. രാജ്യത്തിനുവേണ്ടി ത്യാഗം സഹിക്കയാണ് പൗരന്റെ കടമ..

III. രണ്ടു പുറത്തിൽ കുറയാതെ മൂന്നെണ്ണത്തിന് ഉത്തരമെഴുതുക **(3 x10=30)**

11. സുബദ്രയെക്കുറിച്ചുള്ള ഗദന്റെ വർണ്ണന സ്വന്തം വാക്യത്തിൽ എഴുതുക ?
12. ഭാഷക്ക് ശ്രവണാസ്പദവും ധീഷണാസ്പദവുമായ ധ്വനി ഉണ്ടായിരിക്കണമെന്ന് പറയുന്നതെന്തുകൊണ്ട് ?
13. എന്റെ ചക്കിയില്ലല്ലോ ഇതൊന്നും കാണാൻ..
14. ആ നാലു കാശുണ്ടായിരുന്നേൽ ബീഡി മേടിച്ചു വലിക്കാമായിരുന്നു.. കേശവശ്ശാർ ഇങ്ങനെ ചിന്തിക്കുവാൻ കാരണം ?

IV. രണ്ടെണ്ണത്തിന് മൂന്നു പുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക **(2 x15=30)**

15. 'കാൽചക്രത്തിൽ' പ്രതിഫലിക്കുന്ന അധ്യാപകരുടെ ദൈന്യതയെന്ത് ?
16. 'ലക്ഷ്മണോപദേശത്തിന്റെ'– ആനുകാലിക പ്രസക്തി വിശകലനം ചെയ്യുക.

Contd...2

G 151.1

17. 'ജന്മദിനം' ത്തിൽ തെളിഞ്ഞുവരുന്ന ബഷീറിന്റെ വ്യക്തിത്വം വിലയിരുത്തുക. (5 x2=10)

V. നിർദ്ദേശമനുസരിച്ചെഴുതുക

18. പിരിച്ചെഴുതി സന്ധി നിർണ്ണയിക്കുക

മരമില്ല വാഴയില

തെറ്റില്ല മിന്നൽപ്പിണർ

19. വിഗ്രഹിച്ച് സമാസം നിർണ്ണയിക്കുക

നാലഞ്ച് കലേജൻ ആ

മുക്കണ്ണ് അവയോവദാനം

20. തെറ്റുണ്ടെങ്കിൽ തിരുത്തുക

വിജ്ഞാനം, സല്ക്കാരം, വൃതം , സന്യാസം

ഏകദേശം ഒരുലക്ഷത്തോളം പേർ പരീക്ഷ എഴുതുന്നു

21. വാകൃത്തിൽ പ്രയോഗിക്കുക

ഈറ്റില്ലം , അജഗജാന്തരം, കാലംകഴിക്കുക, അനുപേക്ഷിണീയം

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(2014 Batch onwards)

G.501.1 Reg. No. : | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2018
PHYSICS
PROPERTIES OF MATTER, THERMAL PHYSICS & ELECTRICITY - I

Time: 3 hrs. **Max Marks: 100**

SECTION –A

1. **Answer any TEN of the following.** **(2x10=20)**

a) What is elasticity? On what factors does the elastic property of a material depend?

b) What are I section girders? What are their advantages?

c) Why it is easier to spray soap solution than water?

d) What is velocity gradient? Explain.

e) What is a perfect black body?

f) Why do hydrogen and helium shows heating effect after undergoing Joule-Thomson expansion?

g) Why cannot the carnot's engine have efficiency greater than 1? Explain.

h) What is neutral temperature?

i) What is transient current? Explain.

j) State Kirchoff's laws.

k) Define conductance and give its unit.

l) What are the applications of Schering bridge?

SECTION – B

Answer any TWO full questions from each unit.

UNIT - I

2. a) What is a cantilever? Obtain an expression for the depression produced at the free end of a loaded cantilever. **(6)**

b) Deduce the limits of Poisson's ratio and comment on the result obtained. **(4)**

3. a) Explain with theory the drop weight method of determining surface tension of liquid. **(6)**

b) What is capillarity? Explain capillary rise. **(4)**

4. a) Derive Poiseuilli's formula and explain how it is used to determine the coefficient of viscosity of a liquid. **(6)**

b) Explain terminal velocity and mention its significance. **(4)**

UNIT – II

5. a) Deduce Planck's law using Einstein's A & B coefficients. **(6)**

b) Explain cooling by adiabatic demagnetization. **(4)**

Contd...2

6. a) With a relevant theory, explain Forbes method to find thermal conductivity of a metal. (6)

b) Explain the action of thermocouple with example. (4)

7. a) Describe Carnot's cycle with the help of an indicator diagram and obtain an expression for efficiency in terms of temperature. (6)

b) Explain the variation of boiling point and melting point with pressure. (4)

UNIT – III

8. a) Derive an expression for growth and decay of current in a CR circuit and define the time constant of the circuit. (6)

b) What are passive and active circuit elements? Give an example for each. (4)

9. a) With a necessary circuit diagram, explain Anderson's bridge and give its theory. (6)

b) Why do you get two conditions for balance in an ac bridge? (4)

10. a) Give the theory of discharge of a capacitor in a LCR circuit. (6)

b) State and explain voltage and current division laws. (4)

SECTION -C

Answer any FOUR of the following. (4x5=20)

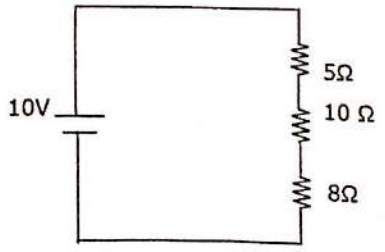
11. A mass of 10Kg is suspended from a metal wire of length 1m and 0.5mm in diameter. An increase in length of wire 4mm is observed. Calculate the Young's modulus of the wire.

12. Calculate the work done against the force of surface tension in blowing a soap bubble of radius 5cm, if the surface tension of soap solution is 0.025N/m.

13. A perfect black body of surface area $0.04m^2$ is at 42°C and is placed inside an enclosure at 27°C. What is the rate of loss of heat? Stefan's constant $\sigma = 5.67x10^{-8} w/m^2/K^4$.

14. The Vander waal's constants for hydrogen a=0.247 atm $lit^2/mole^2$, b=0.0265 lit/mole. Calculate temperature of inversion and Joule-Thomson cooling for 2 atm fall of pressure, initial temperature being 100K. R=8.3 J/K /mole.

15. Using voltage division law, determine the voltage across the resistors in the circuit shown below.



16. In a Maxwell's bridge the resistors in the three arms are R_1=1K Ω, R_3=2K Ω, R_4=6KΩ. Find the value of R_2 for balance. If the capacitor used is 0.1 μF, determine the value of the self inductance of coil.

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12

(2014 Batch onwards)

G.502.1 Reg. No.: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2018
CHEMISTRY

Time: 3Hours. Max Marks: 100

Instructions:
1. Write the question number and sub division clearly.
2. Write equations and diagrams wherever necessary.
3. Answer Part-A in the first two pages of the answer book.

PART –A

Answer any TEN of the following questions in 1 or 3 sentences. (2X10=20)

1.a) What is meant by parachor of a liquid?
b) State the law of corresponding states.
c) What is critical temperature? How is it related to van der Waal's constants of a gas?
d) He_2 molecule does not exist. Give reason.
e) Even though nitrogen atom is sp^3 hybridised the bond angle in ammonia is less than $109^0\ 28^1$. Why?
f) Mention the hydridisation and shape of BF_3 molecule.
g) What are nucleophiles? Give an example?
h) What are free radicals? How are they formed?
i) What are cumulated dienes? Give an example.
j) What is R_f value? What is its significance?
k) Justify the statement. TLC is superior to paper chromatography.
l) How many significant figures are present in – i) 6.022×10^{23} and ii) 0.00149 ?

PART – B

Answer any TEN of the following questions in 2 to 5 sentences. (3X10=30)

2. i) van der Waal's constants for CO_2 are a=364.8 k Pa $dm^6\ mol^{-2}$ and b=0.0428 $dm^3\ mol^{-1}$. Calculate critical volume and critical pressure of the gas.
ii) Define – i) Collision diameter
ii) Collision number and
iii) Mean free path
iii) Explain the liquefaction of gases by Joule-Thomson effect.
iv) Explain the shape of ClF_3 molecule based on VSEPR theory.
v) Explain the hybridisation and shape of water molecule.
vi) Give the differences between bonding and antibonding molecular orbitals.
vii) What is carbocation? Mention the types and give their order of stability.
viii) Explain the structure of 1, 3 - Butadiene.
ix) What is meant by electromenic effect? Mention the types and give examples.
x) What is meant by accuracy, precision and mean deviation?
xi) Discuss the principle of paper chromatography.
xii) Give any three applications of column chromatography.

Contd...2

PART – C

Answer any TEN of the following questions. (5X10=50)

3) Explain Andrew's isotherms of carbon dioxide.

4) What are liquid crystals? Explain the different types of liquid crystals with examples.

5) Explain the principle and method of determination of viscosity of a liquid.

6) Draw the molecular orbital energy level diagram for nitrogen molecule. Write the molecular orbital configuration, calculate the bond order and explain the magnetic property.

7) Give the postulates of molecular orbital theory.

8) Give an elementary account of valence bond theory.

9) Explain the following reactions of 1, 3-Butadiene
   i) Addition of Br_2
   ii) Diels-Alder reaction

10) What are carbenes? How are they classified and generated?

11) Explain the different types of organic reactions with suitable examples.

12) Explain thin layer chromatography and give its applications.

13) Explain distillation as a purification technique.

14) What is meant by errors in quantitative analysis? How are they classified? How are they minimised?

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(2014 Batch onwards)

G 503.1 Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2018

MATHEMATICS – Paper I
Calculus and Conics

Time: 3 Hours **Max. Marks: 100**

Note: Answer all parts

PART – A

Answer any TEN of the following. **(10×2½=25)**

1. Find the point of inflection, $f(x)=x^3-6x^2+9x+1$.
2. Given $f(x)=x^{\frac{2}{3}}$ and $f'(c)=\frac{f(2)-f(-2)}{2-(-2)}$, find $c\in(-2,2)$ if exists.
3. Find the vertical asymptote of the graph $f(x)=\frac{x}{x^2-1}$.
4. Find the length of the arc of the curve $9y^2=4x^3$ from the origin to the point $(3,\ 2\sqrt{3})$.
5. The region bounded by the cure $y=\sec x$, the $x-axis$, $y-axis$ and the line $x=\frac{\pi}{4}$ is revolved about the $x-axis$. Find the volume of the solid generated.
6. The region bounded by the curve $y=x^3$, the $x-axis$ and the line $x=1$ is revolved about the $y-axis$. Find the volume of the solid generated by taking the rectangular elements parallel to the axis of revolution.
7. Given $y=e^{2x\log 2}$ find $\frac{dy}{dx}$.
8. Express $\sinh^{-1}\left(\frac{1}{4}\right)$ in terms of natural logarithms.
9. Evaluate $\int\cos x\sin^4 x\,dx$.
10. Find the rectangular Cartesian coordinates of the point whose polar co-ordinates are $\left(-2,\frac{\pi}{6}\right)$.
11. Find the polar equation of the graph having Cartesian equation $(x^2+y^2)-4xy=0$.
12. Find the symmetry of $r=3\sin 2\theta$.
13. Find the distance between the focus and vertex of the parabola $x^2-4y+12=0$.
14. Find the equation of hyperbola having one vertex at $(-4,\ 2)$ and foci at $(-5,\ 2)$ and $(1,\ 2)$.

Contd....2

15. Find the equation of the graph $x^2 - y^2 = 4$ with respect to $\bar{x}$ and $\bar{y}$ axes after a rotation of axes though an angle $\frac{\pi}{6}$.

PART – B

UNIT - I

(3×5=15)

Answer any THREE questions.

1. Given $f(x)=x^{\frac{1}{3}}$, find the point of inflection of the graph of f and determine where the graph is concave upward and where it is concave downward. Draw the sketch of the graph.
2. Find the vertical and horizontal asymptote of the graph of the function $xy^2 - 2y^2 - 4x = 0$.
3. Draw a sketch of the graph of $f(x)=x^3 - 3x^2 + 3$.
4. The measurement of an edge of a cube is found to be 15 cm with a possible error of 0.01 cm. Use differentials to find the approximate error in computing from this measurement a) the volume b) area of one of the faces.
5. State and prove the second part of the fundamental theorem of integral calculus.

UNIT - II

(3×5=15)

Answer any THREE questions.

1. Find an approximation for $\int_0^1 \frac{1}{\sqrt{1-x^2}}\,dx$ by using Trapezoidal rule correct to 3 decimals with $n = 5$.
2. Using Simpson's rule, find an approximation value of $\int_0^1 \frac{dx}{x^2+x+1}$ correct to 3 decimals with $n = 4$.
3. Find the volume of the solid generated by revolving about the line $x = -4$, the region bounded by the two parabolas $x=y-y^2$ and $x=y^2-3$.
4. Using slicing method find the volume of the right pyramid whose altitude is h units and whose base is a square of side 's' units.
5. The region bounded by the curve $y=x^2$ and the lines $y=1$ and $x=2$ is revolved about the line $y=-3$. Find the volume of the solid generated by taking the rectangular elements of area parallel to the axis of revolution.

Contd....3

UNIT - III

Answer any THREE questions (3×5=15)

1. In a certain culture, the rate of growth of bacteria is proportional to the amount present. If 1,000 bacteria are present initially and the amount doubles in 12 min, how long will it take before there will be 1,000,000 bacteria present?
2. The rate of increase of population in a city is proportional to the population. If the population in 1950 was 50,000 and in 1980 it was 75,000 what will be the population in 2010.
3. Evaluate $\int \sin^2 x \cos^4 x \, dx$.
4. Evaluate $\int \tanh^2 x \, dx$.
5. Find the area of the region bounded by the graph of the curve $y = \log x$, the $x-axis$ and the line $x = e$.

UNIT - IV

Answer any THREE questions (3×5=15)

1. Draw a sketch of the graph $r = 3 + 2\sin\theta$.
2. Draw a sketch of the graph $r = 2 + 2\cos\theta$.
3. Draw a sketch of the graph $r = 4\cos 2\theta$.
4. Find the area of the region bounded by the graph $r = 2 + 2\sin\theta$.
5. Find the area of the region inside the circle $r = 3\sin\theta$ and outside the limacon $r = 2 - \sin\theta$.

UNIT - V

Answer any TWO questions (2×7½=15)

1. Simplify the equation $17x^2 - 12xy + 8y^2 - 80 = 0$ by a rotation of axes. Draw a sketch of the graph of the equation and show both sets of axes.
2. If $B \neq 0$, then prove that the equation $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$ can be transformed into the equation $\overline{A}\,\overline{x}^2 + \overline{C}\,\overline{y}^2 + \overline{D}\,\overline{x} + \overline{E}\,\overline{y} + \overline{F} = 0$ where $\overline{A}$ and $\overline{C}$ are not both zero, by a rotation of axes through an angle α for which $\tan 2\alpha = \frac{B}{A - C}$.
3. Remove the xy term of $24xy - 7y^2 + 36 = 0$ and sketch the graph.
4. Sketch the graph of $4x^2 - 4xy + 7y^2 - 24 = 0$.

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(2015 Batch onwards)

G 504.1

Reg. No.

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2018

ELECTRONICS

FUNDAMENTALS OF ANALOG AND DIGITAL ELECTRONICS

Note: This question paper has three sections. Section A, Section B and Section c. Answer all sections.

Time: 3 hrs. **Max Marks: 100**

SECTION – A

1. Choose the correct answer from the choices given at the end of each question and write the correct answer. (12x1=12)

i) The capacitance of disc capacitor with the specification 103 is .....

a) $0.1\mu F$ b) $0.01\mu F$ c) $0.001\mu F$ d) $1\mu F$

ii) In Thevenin's equivalent circuit, the source is .....

a) Open circuit voltage source b) Short circuit voltage source
c) Short circuit current source d) open circuit current source

iii) The resistance of a resistor with the colour code Brown, Red, Brown is.....

a) $120\Omega \pm 10\%$ b) $120k\Omega \pm 10\%$ c) $1.2k\Omega \pm 20\%$ d) $120\Omega \pm 20\%$

iv) A transistor is said to be operating in saturation region when EB Junction is .....biased and CB junction is .....biased.

a) Forward, Reverse b) Forward, Forward
c) Reverse, Forward d) Reverse, Reverse

v) LED stands for .....

a) Light emiting Diode b) Laser emiting Diode
c) Light estimated Diode d) Laser estimated Diode

vi) PIV of a diode used in half wave rectifier should be .....

a) $2V_m$ b) V_m c) $V_m/2$ d) V_m^2

vii) A galvanometer can be converted into a voltmeter by connecting a .....resistance in.....with it.

a) Low, Series b) High, Series c) Low, Shunt d) High Shunt

viii) A capacitor has $X_c = 1000\Omega$. If the input frequency is doubled, its reactance will be.....

a) 100Ω b) 2000Ω c) 250Ω d) 500Ω

ix) In a Series resonant circuit, as quality factor increases, the band width.....

a) decreases b) remain constant
c) increases d) may increase or decrease depending on R

x) The gate which gives output high, only if both the inputs are unequal.

a) X-NOR b) AND c) OR d) X-OR

xi) The complement of function $AB + \overline{A}B$ is.....

a) $(A+B)(\overline{A}+B)$ b) $(\overline{A}+B)(A+\overline{B})$ c) $(AB)(\overline{AB})$ d) $(\overline{A}+\overline{B})(A+\overline{B})$

xii) 2's complement of binary no 1000 is.....

a) 1001 b) 1010 c) 1000 d) 1100

Contd...2

2. Answer any TEN questions. (10x1=10)

i) Write the circuit symbol of iron core inductor.

ii) Define mesh.

iii) Mention any one application of Varactor diode.

iv) Define β_{dc} of a transistor.

v) Give one difference between rectifier diode and Zener diode.

vi) What is the phase difference between voltage and current at resonance in a series LCR circuit?

vii) What is meant by a series ohm meter?

viii) Draw the circuit symbol of XNOR gate.

ix) Expand BCD.

x) Give the circuit symbol of a Preset.

xi) What is the value of inductive reactance of an inductor for DC voltage?

xii) Define an AND gate.

3. Answer any TEN questions. (10x2=20)

i) State KVL. Give one example.

ii) What is meant by step down transformer? Mention any one of its applications.

iii) What is a rectifier? Draw the input output waveforms of a half wave rectifier.

iv) Draw the circuit diagram of RC differentiator. Write the equation for its output voltage.

v) Draw the circuit diagram and wave form of a double ended clipper.

vi) Define Bandwidth and quality factor of series LCR circuit.

vii) Realize OR gate using only NAND gates.

viii) Show that a+1=1.

ix) What is a weighted code? Give one example.

x) What is a Clamper? Draw the circuit diagram of Positive Clamper.

xi) Resistors 10kΩ and 5kΩ are connected in series to a source of emf 10V. Calculate the voltage drop across 5kΩ resistor.

xii) Calculate the impedance of an RL circuit, containing R=100Ω and L=0.5H, applied with a AC source of frequency 50Hz.

SECTION – B

4. Answer any SEVEN questions. (7x4=28)

i) State and explain superposition theorem.

ii) Explain any two types of non electrolytic capacitor.

iii) With V-I characteristics explain Zener diode.

iv) Write a note on-

a) Series biased positive Clipper

b) Negative Clamper

v) Show that the current through a pure resistor is in phase with voltage across it.

vi) With necessary diagrams explain the action of a transistor as a switch.

vii) A galvanometer of I_{fsd}=1mA and R_G=50Ω is connected in universal shunt with resistors R_1=10Ω and R_2=1Ω. Calculate the two ranges in which the meter can be used.

Contd...3

16

viii) With the necessary diagram, derive the expression for the cut-off frequency of a RC low pass filter.

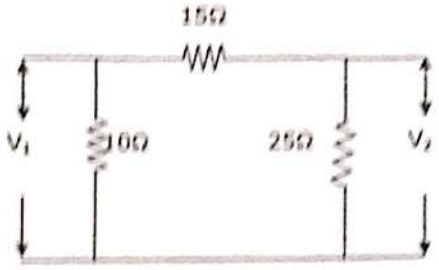
ix) State and prove any two theorems of Boolean algebra.

x) Define a quad in a K-map. With example show that a quad in a K-map removes two variables and their complements.

SECTION – C

Answer any THREE full questions. **(10x3=30)**

5. a) Calculate the h-parameter of the following circuit.



(6)

b) Simplify the following using Boolean postulates.

i) $Y = A + AB + \bar{A}B$

ii) $Y = \bar{A}B + B + A + AB + ABC + (A + B)$ (4)

6. a) State and prove maximum power transfer theorem. (6)

b) Design a RC band pass filter with lower cutoff frequency of 5kHz and higher cutoff frequency of 15kHz. Assume $C_1 = C_2 = 0.1\mu F$. (4)

7. a) Derive the expression for current, impedance and phase angle in series LR circuit. (6)

b) Define α_{dc} and β_{dc} of a transistor. Obtain the relationship between them. (4)

8. a) With an example explain how binary subtraction can be performed using 2's complement system. (6)

b) With a circuit diagram explain the working of a bridge rectifier. (4)

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(2015 batch onwards)

G 505.1 Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc Semester I – Degree Examination
October- 2018
COMPUTER SCIENCE
Digital Computer circuits

Time: 3 hrs. Max Marks: 100

PART–A

Answer any TEN of the following: (10x2=20)

1. a) Construct AND gate using a universal gate.
   b) Write the truth tables for XOR and XNOR gates.
   c) Obtain the 1's and 2's complement of 1000101.
   d) Write the complement of $F(A,B,C,D) = AB + \bar{C}\bar{D}$.
   e) Draw the circuit of a full Adder with two half-adders and OR gate.
   f) Which inputs to a flipflop are called direct inputs? Give their uses.
   g) Write the excitation table for JK FF.
   h) What is a register? Write any one difference between register and counter.
   i) What is a ripple counter? Write the counting sequence of BCD ripple counter.
   j) Expand: I²L, CMOS, RTL, ECL
   k) List the basic arithmetic micro operations.
   l) Write the different usages of 'cat' command.

PART–B

Answer any ONE full question from each unit. (4x20=80)

Unit I

2. a) Perform the following conversions. (8)
   a) $(1010.99)_{10} = (?)_2$
   b) $(AA)_{16} = (?)_{10}$
   c) $(1010101101010010)_2 = (?)_8 = (?)_{16}$
   d) $(77.77)_8 = (?)_{10}$
   b) State the Huntington's postulates of Boolean Algebra. (6)
   c) Explain basic gates with logic circuit and truth table. (6)

3. a) Perform the following subtractions using 1's and 2's complement method. (8)
   i) $(100)_{10} - (99)_{10}$ ii) $(333)_{10} - (444)_{10}$
   b) Prove the distributive law of + over . and . over +, using truth tables. (6)
   c) Express the Boolean function F=A+$\bar{B}$C in a sum of minterms. (6)

Unit II

4. a) Implement $F(A,B,C) = \Sigma(1,3,5,6)$ with a multiplexer. (8)
   b) Simplify the Boolean function: (6)
   $F(A,B,C,D) = A\bar{B}\bar{C} + \bar{B}C\bar{D} + \bar{A}BC\bar{D} + A\bar{B}\bar{C}$ using K-map.
   c) Explain the working of a half subtractor with circuit diagram and truth table. (6)

Contd...2

5. a) What is a decoder? With a neat diagram explain the working of 3 to 8 line decoder. (7)

b) Simplify using K-map (7)

$F(A, B, C, D) = \bar{B}\bar{C}\bar{D} + B\bar{C}\bar{D} + A\bar{B}C\bar{D}$ and $d = \bar{B}C\bar{D} + \bar{A}B\bar{C}D$.

c) What are don't care conditions? How are they useful in simplification? (6)

Unit III

6. a) Explain the working of JK FF with circuit diagram and truth table. (7)

b) Design a counter circuit that generate a word time of eight clock pulses. (7)

c) Explain the steps involved in the design of synchronous counter. (6)

7.a) Explain the working of a master –slave JK FF with block diagram. (8)

b) Write a note on trigging of flip-flops. (6)

c) Explain the working of a Johnson counter. (6)

Unit IV

8.a) Explain the working of a bidirectional shift register with parallel load. (8)

b) Explain the characteristics of digital IC logic families. (6)

c) Explain any six file related commands in Linux with syntax and example . (6)

9.a) Explain logic and shift micro operations (8)

b) Design a serial adder using sequential logic. (6)

c) Explain the working of a 4 bit serial in –serial in-serial out shift register. (6)

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G 506.1

(2016 batch onwards)

Reg. No.

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2018
STATISTICS
DESCRIPTIVE STATISTICS & PROBABILITY THEORY

Time: 3 hrs. **Max Marks: 100**

Note: Answer all parts

PART – A

I Answer any TWELVE of the following. **(2×12=24)**

a) Write any two properties of Karl Pearson's correlation coefficient.

b) If 'r' is the coefficient of correlation between X&Y, find the coefficient of correlation between X& -Y.

c) Define rank correlation coefficient. What is the value if the two rankings are in perfect agreement?

d) Write down the normal equations for fitting a curve of the form $Y = a + bx + cx^2$.

e) What is Regression?

f) What is the relation between regression coefficients & correlation coefficient?

g) Prove that arithmetic mean of the regression coefficients is greater than the correlation coefficient.

h) On what assumptions are the two regression equations obtained.

i) What is price elasticity?

j) State the law of supply & demand?

k) State Pareto's law of income distribution.

l) Define a continuous random variable with an example.

m) Give the axiomatic definition of probability.

n) Distinguish between pair wise & mutually independent events.

o) If A and B are independent events, prove that A' and B' are also independent.

PART – B

Answer any SIX of the following. **(6×6=36)**

2. Derive the normal equations four fitting an equation of the type $Y = a + bx$.

3. Show that correlation coefficient is independent of origin & scale.

4. Show that if X' & Y' are the deviations of random variables X and Y from their respective mean then.

i) $r = 1 - \frac{1}{2N}\sum \left(\frac{X_i'}{\sigma_x} - \frac{Y_i'}{\sigma_y}\right)^2$

ii) $r = -1 + \frac{1}{2N}\sum \left(\frac{X_i'}{\sigma_x} - \frac{Y_i'}{\sigma_y}\right)^2$

deduce that $-1 \leq r \leq +1$

Contd...2

G 506.1

5. Derive the limits for rank correlation coefficient.
6. Derive the regression equation of X on Y.
7. a) Prove that if one of the regression coefficients greater than unity, the other must be less than unity.

   b) Show that regression lines intersect at $(\bar{X}, \bar{Y})$
8. State and prove addition theorem of probability for any two events.
9. If A, B and C are pair wise independent events, prove that A, B and C are also mutually independent if A and (BUC) also independent events.
10. Find the distribution function of random variable with p.d.f is

$$f(x) = \begin{cases} \theta\, e^{-\theta x} & x \geq 0 \quad \theta > 0 \\ 0 & 0.w \end{cases}$$

PART – C

(10×4=40)

Answer any FOUR of the following.

11. a) The variables X and Y are connected by the equation ax+by+c=0. Show that the correlation between them is -1 if the signs of a & b are alike & +1 if they are different. (5)

    b) If X and Y are two random variables with variances σ_x^2, σ_y^2 respectively and 'r' is the correlation of coefficient between them. If $U = X + kY$ & $V = X + \frac{\sigma_x}{\sigma_y} Y$, Find the value of K so that U & V are uncorrelated. (5)

12. a) The random variables X and Y are jointly normally distributed & V & V are defined by (5)

    $U = X\cos\alpha + Y\sin\alpha$

    $V = Y\cos\alpha - X\sin\alpha$

    Show that U&V will be uncorrelated if

    $\tan 2\alpha = \frac{2r\sigma_x \sigma_y}{\sigma_x^2 \sigma_Y^2}$, are U & V then independent?

    b) Derive an expression for spearman's rank correlation coefficient when there are no ties. (5)

13. Derive the equation to the plane of regression of X_1 on X_2 & X_3. (10)

14. a) State & prove Bayes theorem of probability. (7)

    b) Define conditional probability. (3)

15. a) Explain a) Marginal distribution b) Distribution function & its properties (4)

    b) If $f(x) = 6x(1-x),\ 0 < x < 1$ find distribution function of X if f(x) is a pdf. (6)

16. State and prove Boole's in equality. (10)

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(2014 batch onwards)

G. 507.1 Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2018

BOTANY
BIODIVERSITY - I

Time: 3 Hours **Max. Marks: 100**

Instructions: a) Answer all the sections.
b) Draw diagrams wherever necessary.

SECTION – A

I. Answer any TEN of the following in a few sentences each. (10x2=20)

1. What are cryptogams? Give an example.
2. Comment on prophage and its significance.
3. Write any two living characters of viruses.
4. Classify bacteria based on flagellation.
5. List any two diseases caused by Mycoplasma in plants.
6. What are chemoorganotrophs? Give an example.
7. Give two harmful aspects of blue green algae.
8. Differentiate between zoospores and aplanospores. Mention their importance.
9. What is neuromotor system?
10. Define isomorphic alternation of generation. Give an example.
11. Comment on the cell wall of Diatoms.
12. What are trabeculae? Mention their importance.

SECTION – B

II. Answer any SIX of the following. (6x5=30)

1. Who proposed the five kingdom classification of organisms? Explain it.
2. Describe the structure of T4 Bacteriophage with a diagram.
3. Give an account of Transduction and its significance.
4. Explain any five beneficial aspects of Bacteria.
5. Describe the process of daughter colony formation in volvox with suitable diagrams.
6. Explain the thallus structure of *Gloeocapsa* and *Scytonema* with suitable diagrams.
7. Describe the sexual reproduction in *Spirogyra*.
8. Write any four salient features of phaeophyceace. Give two examples.

Contd...2

SECTION – C

(5x10=50)

III. Answer any FIVE of the following.

1. Give an account of mode of transmission of viruses.
2. Write short notes on
   a) Prions
   b) Similarities and differences between Gymnosperms and Anglosperms.
3. Explain the general characters of Actinomycetes. Give two examples.
4. Write short notes on
   a) Endospore formation in Bacteria
   b) General characters of Archaebacteria
5. Give an account of reproduction in cyanophyceae with suitable illustrations.
6. Write notes on
   a) Classification of chlorophyceae up to orders
   b) Thallus construction in *Pandorina* and *Hydrodictyon*
7. Explain the following in *Polysiphonia*
   a) Cystocarp b) Tetrasporophyte
8. Describe the thallus structure and Globule of *Chara*.

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(2014 Batch onwards)

G.508.1

Reg. No.:

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2018
ZOOLOGY
Animal Diversity (Non-Chordata)

Time: 3Hours. **Max Marks: 100**

Note: i) Answer any TEN questions from PART A and ONE FULL question from each unit of PART B.
ii) Draw diagrams wherever necessary.

PART –A

I Answer any TEN of the following. **(10X2=20)**

a) Write the locomotory organelles of phylum protozoa.
b) What are hotspots? Name the hotspots in India.
c) What is biodiversity? Name the various levels of biodiversity.
d) Name the types of coral reefs.
e) Write any four characters of ctenophora.
f) Define host. Give one example.
g) What are polyspermy? Give two examples.
h) Name the classes of Phylum annelida. Give one example for each.
i) Write any four unique characteristics of *Peripatus*.
j) Write any two distinguishing features of class gastropoda with two examples.
k) Write the classes of phylurm echinodremata.
l) Name any two representatives of sub phylum hemichordata.

PART – B

Select ONE full question from each unit.

Unit I

II a) Explain the principles of binomial nomenclature. Give scientific names of any three animals. **(10)**
b) Explain the leuconoid canal system. **(5)**
c) Mention any six characters of class rhizopoda with any two examples. **(5)**

OR

III a) Give an account of general characters of phylum protozoa with two examples. **(10)**
b) Explain the life history of *Elphidium*. **(5)**
c) Comment of external morphology of *Sycon*. **(5)**

Unit II

IV a) With the help of neat labeled diagram describe the structure of *Pleurobrachia*. Add note on its unique features. **(10)**
b) Write distinctive characters of class trematoda with examples. **(5)**
c) Describe the structure of cnidoblast. **(5)**

OR

Contd...2

V a) Give an account of parasitic adaptations of platyheminthes. (10)

b) Explain different types of zooids found in *Halistemma*. (5)

c) Write a note on external morphology of *Taenia solium*. (5)

Unit III

VI a) Give an account of general characters of phylum annelida. (10)

b) Write a note on external morphology of *Pherelima*. (5)

c) List any eight general characters of phylum arthropoda. (5)

OR

VII a) Classify arthropoda giving two characters and one example for each class. (10)

b) Comment on economic importance of *Pheretima*. (5)

c) Describe external morphology of *Penaeus*. (5)

Unit IV

VIII a) Classify phylum mollusca upto classes giving three diagnostic characters with examples. (10)

b) Describe the morphology of *Pila globosa*. (5)

c) With the help of neat labeled diagram describe the morphology of tornaria larva. (5)

OR

IX a) Explain general characters of phylum echinodermata. (10)

b) Describe external features of *Balenoglossus*. (5)

c) Comment on economic importance of molluses. (5)

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G 509.1

(2014 onwards)

Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I - Degree Examination
October– 2018

MICROBIOLOGY
Fundamentals of Microbiology

Time: 3 Hours **Max. Marks:100**

Instructions: Draw diagrams wherever necessary.
Answer questions from Section A , B and C

PART – A

1. Define /Answer any TEN of the following **(2×10=20)**

a) Who was the first to describe the microorganism.

b) Pathogen

c) Mordant

d) Phylogeny

e) Type strain

f) Bacteria used in sterility check

g) Symport

h) Prototroph

I) Generation time

j) Auxenic culture

k) Lyophilization.

l) Antiseptics.

PART B

ANSWER QUESTION 'a' OR 'b' AND 'c' IS COMPULSORY FROM EACH UNIT.
(15x4=60)

UNIT – I

2. a) Mention the contributions of I) Louis Pasteur and ii) Beijerinck.

OR

2. b) Describe the parts and principles of Phase contrast microscope. **(9)**

2. c) Write the procedure and principle of Acid-fast staining. **(6)**

UNIT – II

3. a) Describe in brief the origin of life.

OR

3. b) Explain the classical characteristics used in microbial taxonomy. **(9)**

3. c) Write a note on Bergey's manual. **(6)**

Contd..2

UNIT – III

4. a) Explain the process of sterilization by moist heat.

OR

4. b) Explain the methods of nutritional update by active transport. (9)

4. c) Mention the mode of application action of the following : 1) Aldehydes and ii) Detergents (6)

UNIT – IV

5. a) Describe the methods of isolation of pure culture.

OR

5. b) Give an account of continuous culture of microorganisms. (9)

5. c) Mention the morphological feature of bacterial colony. (6)

PART -C

Answer any FOUR of the following: (5x4=20)

6. a) Atomic Force microscope.

b) Numerical taxonomy

c) Nutritional classification of microorganisms.

d) Culture media

e) Sterilization by radiation

f) Synchronous culture.

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G 510.1

(2013 batch onwards)

Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I– Degree Examination
October- 2018
BIOCHEMISTRY
Biomolecules and Techniques

Time: 3 Hours **Max. Marks: 100**

Instructions:
1. Write the question number and subdivision clearly
2. Write equations and diagrams wherever necessary
3. Answer Part – A in the first two pages of the answer book

PART – A

Answer any TEN of the following. **(10×2=20)**

1. a) What are anomers? Give an example.
   b) Write the structure of Inulin.
   c) Mention the biological role of phosphoglycerides.
   d) Define Acid value.
   e) Name the forces stabilizing the tertiary structure of protein.
   f) Mention any two functions of valinomycin.
   g) Give the principle of adsorption chromatography.
   h) Name the linkage present in sucrose and lactose.
   i) What are racemic mixtures?
   j) Name any two essential fatty acids.
   k) Define isoelectric pH.
   l) Expand PAGE and mention its application.

PART – B

Answer any SIX of the following **(6×5=30)**

2. Elucidate the open chain structure of Glucose.
3. Write a note on osazone test.
4. Outline the classification of lipids.
5. Write the structure of lecithin and plasmalogen.
6. Explain pH titration curve of an aminoacid.
7. Explain the chemical method to synthesize a dipeptide.
8. Write short note on advantage of TLC over paper chromatography.
9. Explain 2D- Electrophoresis.

PART -C

Answer any FIVE of the following **(5×10=50)**

10. I)How does fructose react with con. HNO_3 and phenyl hydrazine.
    II) Explain the partial structure of starch and give its importance.
11. Give an account on chemical and physical properties of triglycerides.
12. Write the classification of proteins based on structure and function.
13. Explain HPLC.
14. Explain the principle and procedure for Ion exchange chromatography.
15. Write short note on i) Renaturation of proteins
    ii) PAGE
16. Explain : i) Structure and importance of sphingomyelin
    II) Occurrence and structure of cellulose, chitin and pectin.

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23

G 511.1

(2014 batch onwards)

Reg. No. : | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B. Sc. Semester I - Degree Examination

October - 2018

BIOTECHNOLOGY

Biophysics and Biostatistics

Time: 3 Hours **Max. Marks: 100**

Note: i) Answer all the questions
ii) Draw diagrams wherever necessary

PART – A

I. Answer any TEN of the following: **(2×10=20)**

a) Mention the unit of radioactivity.

b) State Beer Lambert's Law.

c) State Svedberg's Law.

d) Define R_f value.

e) Give one example for tracking dye.

f) Define isotope. Give any two examples.

g) What is Membrane potential?

h) Define arithematic mean.

i) Define probability. What is the probability of getting a head in on experiment involving tossing of a coin?

j) What are mutually exclusive events? Give an example.

k) Define resolving power of a microscope.

l) Calculate total magnification when the magnification of eyepiece is 10x and that of objective is 45x.

PART – B

Answer any SIX of the following: **(5x6=30)**

2. Describe specimen preparation procedure followed in TEM.

3. Describe the principle of NMR spectroscopy.

4. Write a note on density gradient centrifugation and its applications.

5. Explain the principle of ion-exchange chromatography and its applications.

6. Write a note on positive and negative effects of radiations on biological systems.

Contd...2

G 511.1

7. Write a note on Gieger-Muller counter.
8. Explain the methods and types of correlation.
9. For the following date, calculate standard deviation.

Height of pea plants (cms)	12	15	13	14	6	9	13

PART - C

Answer any FIVE of the following: **(10x5=50)**

10. Describe the principle, instrumentation and application of UV visible spectroscopy.
11. Give a detailed account on HPLC.
12. Explain the principle, construction and applications of Fluorescent Microscopy.
13. Describe the principle and applications of Agarose Gel electrophoresis.
14. Give a detailed account on uses of isotopes in Biology.
15. Discuss specimen preparation and uses of auto radiography.
16. For the following distribution of diastolic pressure of men, find the standard deviation and variance.

Percent (mm)	78-80	80-82	82-84	84-86	86-88	88-90
No of men	3	15	26	23	9	4

17. Explain random sampling techniques in detail.

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(2016 batch onwards)

G 110/512.1

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A/B.Sc Semester I – Degree Examination

October- 2018

COMPUTER ANIMATION

Time: 3 Hours **Max. Marks: 100**

Section- A

1. Answer any TEN of the following: **(2x10=20)**

a. Define Resolution.

b. How to group the layers?

c. How to make black and white image to colour image?

d. What is the use of Ctrl+D key in CorelDraw?

e. What is the use of Cusp?

f. How to create new pattern?

g. What is the use of Red eye tool?

h. What is the use of History Brush tool?

i. What is Layer mask?

j. How to give feather effect?

k. Expand PDF & PNG.

l. How to save GIF images?

Section- B

Answer any <u>FOUR</u> of the following: **(5 × 4 = 20)**

2. Write down the steps of creating soap.
3. Explain the procedure of creating GIF animation.
4. Write down the steps of creating dew drops.
5. What are the features of Photoshop?
6. Write a note on Adobe Photoshop.

Section- C

Answer any <u>TWO</u> of the following: **(10x2=20)**

7. Write a note on convert to curves objects.
8. Explain Photoshop transform and its Submenu objects.
9. What is Graphic Design? What is the use of it?

Section- D

Answer any <u>TWO</u> of the following: **(20×2=40)**

10. Explain briefly about vector and Bitmap graphics.
11. Design Photoshop layout and toolbox and explain all the tools in details.
12. Explain all the options of Photoshop layers.

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(2016 Batch onwards)

G 513.1

Reg. No. : | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. - SEMESTER I – Degree Examination

October - 2018

ECONOMICS

PRINCIPLES OF ECONOMICS - I

Time: 3 hrs. Max Marks: 100

PART - A

Answer any FOUR of the following questions in about 10 sentences each. (4×5=20)

1. Explain wealth definition of economics.
2. What are the factors influencing demand?
3. What is marginal rate of substitution?
4. Write a short note on external economics of scale.
5. Explain explicit cost and implicit cost.
6. Write a note on law of supply.

PART - B

Answer any FOUR of the following questions in about 20 sentences each. (4×10=40)

7. Explain the basic problems of an economy.
8. Briefly explain the law of demand.
9. Briefly explain the various types of price elasticity of demand.
10. Explain Samuelson's revealed preference theory of demand.
11. Explain the properties of iso-quants.
12. Explain the relationship between average revenue and marginal revenue under perfect competition.

PART - C

Answer any TWO of the following questions in about 50 to 60 sentences each. (2×20=40)

13. Explain the law of diminishing marginal utility. What are its exceptions?
14. What is an indifference curve? Explain its properties.
15. Explain short run cost-output relationship with the help of suitable diagrams.
16. Examine the law of variable proportions.

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 26

(2018 Batch onwards)

G 702.1

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc./B.C.A. Semester I – Degree Examination

October - 2018

FOUNDATION COURSE IN ENVIRONMENTAL SCIENCE AND VALUE EDUCATION

Time: 3 Hours

Max. Marks: 100

PART – A

ENVIRONMENTAL SCIENCE

I. Answer any TEN of the following. (10x2=20)

ಕೆಳಗಿನ ಯಾವುದಾದರು ಹತ್ತು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರ ಬರೆಯಿರಿ.

1. Define ecosystem.
ಪರಿಸರ ವ್ಯವಸ್ಥೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.

2. What is exsitu conservation?
ಹೊರಪ್ರದೇಶ ಸಂರಕ್ಷಣೆ ಎಂದರೇನು?

3. What are biodegradable wastes? Give example.
ಜೈವಿಕ ವಿಘಟನೀಯ ತ್ಯಾಜ್ಯಗಳು ಎಂದರೇನು? ಉದಾಹರಣೆ ಕೊಡಿ.

4. Define Endangered species.
ವಿನಾಶದ ಅಂಚಿನಲ್ಲಿರುವ ಸಂಕುಲವನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.

5. What is acid rain?
ಆಮ್ಲ ಮಳೆ ಎಂದರೇನು?

6. Give two examples for non-renewable resources.
ನವೀಕರಿಸಲಾಗದ ಸಂಪನ್ಮೂಲಗಳ ಎರಡು ಉದಾಹರಣೆಗಳನ್ನು ನೀಡಿ.

7. What is a habitat?
ಆವಾಸ ಎಂದರೇನು?

8. Expand BNHS and CES.
ಬಿಎನ್‌ಎಚ್‌ಎಸ್ ಮತ್ತು ಸಿಇಎಸ್‌ಅನ್ನು ವಿಸ್ತರಿಸಿ.

9. Name any two environmental movements in India.
ಭಾರತದಲ್ಲಿ ಯಾವುದಾದರು ಎರಡು ಪರಿಸರ ಸಂಬಂಧಿ ಚಳುವಳಿಯನ್ನು ಹೆಸರಿಸಿ.

10. Define soil erosion.
ಮಣ್ಣಿನ ಸವಕಳಿಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.

11. Define solid waste.
ಘನತ್ಯಾಜ್ಯವನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.

12. Give two examples for radioactive pollutant.
ವಿಕಿರಣ ಮಾಲಿನ್ಯಕಾರಕಕ್ಕೆ ಎರಡು ಉದಾಹರಣೆ ಕೊಡಿ.

II. Answer any FOUR of the following questions (4x5=20)

ಕೆಳಗಿನ ಯಾವುದಾದರು ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳನ್ನು ಉತ್ತರಿಸಿರಿ

13. Explain food chain and food web with examples.
ಆಹಾರಸರಪಳಿ ಮತ್ತು ಆಹಾರಜಾಲವನ್ನು ಉದಾಹರಣೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.

14. Write a note on The Wildlife (Protection) Act, 1972.
ವನ್ಯಜೀವಿ ರಕ್ಷಣೆ ಕಾಯ್ದೆ, 1972 ಬಗ್ಗೆ ಒಂದು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

15. What are the effects of water pollution on living organisms?
ಜಲಮಾಲಿನ್ಯದ ಜೀವಿಗಳ ಮೇಲಿನ ಪರಿಣಾಮಗಳು ಯಾವುವು?

Contd...2

16. Define hazardous wastes? Explain the characteristics of hazardous wastes with example.

ಅಪಾಯಕಾರಿ ತ್ಯಾಜ್ಯಗಳನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ. ಉದಾಹರಣೆಯೊಂದಿಗೆ ಅಪಾಯಕಾರಿ ತ್ಯಾಜ್ಯದ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.

17. Mention the Bio-geographic zones of India.

ಭಾರತದ ಜೈವಿಕ--ಭೌಗೋಳಿಕ ವಲಯಗಳನ್ನು ತಿಳಿಸಿ. **(3x10=30)**

III. Answer any THREE of the following

ಕೆಳಗಿನ ಯಾವುದಾದರು ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರ ಬರೆಯಿರಿ.

18. Discuss the causes, effects and control of air pollution.

ವಾಯುಮಾಲಿನ್ಯದ ಕಾರಣಗಳು, ಪರಿಣಾಮಗಳು ಹಾಗೂ ಅದರ ನಿಯಂತ್ರಣ ಕ್ರಮಗಳ ಕುರಿತು ಚರ್ಚಿಸಿರಿ.

19. Define Environment. Explain the different components of the environment.

ಪರಿಸರ ಎಂದರೇನು? ಪರಿಸರದ ವಿವಿಧ ಘಟಕಗಳನ್ನು ವಿವರಿಸಿ.

20. Describe the values of Biodiversity.

ಜೀವವೈವಿಧ್ಯತೆಯ ಮೌಲ್ಯಗಳನ್ನು ವಿವರಿಸಿ.

21. Expand and write a note on WWF, CRZ and CITES.

ಡಬ್ಲ್ಯೂ ಡಬ್ಲ್ಯೂಎಫ್, ಸಿಆರ್‌ಝಿಡ್ ಮತ್ತು ಸಿಐಟಿಇಎಸ್‌ಅನ್ನು ವಿಸ್ತರಿಸಿರಿ ಮತ್ತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

PART – B
(VALUE EDUCATION)

IV. Answer any FOUR questions in about 8-10 sentences each. Each question carries FIVE marks: (4x5=20)

ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳನ್ನು 8–10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 5 ಅಂಕಗಳು.

22. Trace the institutional legacy of St Aloysius College.

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜಿನ ಸಾಂಸ್ಥಿಕ ಪರಂಪರೆಯನ್ನು ನಿರೂಪಿಸಿರಿ.

23. Analyse Johari Window as a technique of self awareness.

ಜೊಹಾರಿ ಕಿಂಡಿಯು ಸ್ವಯಂ ಅರಿವಿನ ಒಂದು ತಂತ್ರ ಎಂಬುದನ್ನು ವಿಶ್ಲೇಷಿಸಿ ಬರೆಯಿರಿ.

24. Explain the need for right self esteem.

ಸ್ವಯಂ ಅರಿವಿನ ಆಗತ್ಯವನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

25. What is spiritual quotient? Explain.

ಆಧ್ಯಾತ್ಮಿಕತಾ ಅಂಶ ಎಂದರೇನು? ವಿವರಿಸಿರಿ.

26. What is meant by critical thinking? Explain.

ಟೀಕಾತ್ಮಕ ಚಿಂತನೆ ಎಂದರೇನು? ವಿವರಿಸಿರಿ.

27. Write a note on thought power.

ಅಲೋಚನಾ ಶಕ್ತಿಯ ಮೇಲೆ ಒಂದು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

V. Answer any ONE question in about 20 sentences. Each question carries 10 marks: (1x10=10)

ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು 20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 10 ಅಂಕಗಳು.

28. Explain the importance and elements of Self-discipline.

ಸ್ವಯಂ ಶಿಸ್ತಿನ ಪ್ರಾಮುಖ್ಯತೆ ಹಾಗೂ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿರಿ.

29. What are life skills? Explain its importance and components.

ಜೀವನ ಕೌಶಲ್ಯ ಎಂದರೇನು? ಅದರ ಮಹತ್ವ ಮತ್ತು ಘಟಕಗಳನ್ನು ವಿವರಿಸಿರಿ.

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(2019 Batch onwards)

G 135.1/335.1/435.1/535.1/635.1 Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Com./B.B.A./B.Sc./B.C.A. Semester I - Degree Examination

October – 2019

ENGLISH

Time: 3 Hours **Max. Marks: 100**

UNIT - I (PROSE)

I. Answer the following in a word/phrase/sentence each: (5x1=5)

1. What happens when the people of a nation are in confusion and distress?
2. Where was Kalam's house located?
3. Who complained that 'wealth accumulates and men decay'?
4. What is the unspeakable wrongness that the author talks of in the story 'A Hanging'?
5. Name the two men Leacock introduces in the prose 'Self-Made Men'.

II. Answer any <u>FIVE</u> of the following in about 150 words each: (5x5=25)

1. Tocqueville states that patriotism 'is in itself a kind of religion, it does not reason, but it acts from the impulse of faith and of sentiment.' Do you agree or disagree with this statement? Provide reasons.
2. 'The child is the father of man'. Elaborate this idea in the light of Kalam's growth to adulthood.

3. How does Shaw use the analogy of dress-making to discuss how capitalism has restricted people's skills?
4. What impression of the narrator do you form by the end of the essay 'A Hanging'? Why?
5. Comment on the author's opinion of Americans and the kind of patriotism they display in the essay 'On Patriotism'.
6. Piety and discipline are the two major features of the life that Kalam's parents lived. Explain this idea with examples.
7. Describe how Leacock introduces the two men sitting in a restaurant.

UNIT - II (POETRY)

III. Answer the following in a word/phrase/sentence each: (5x1=5)

1. In the poem 'Night and Death', who does 'Our First Parent' refer to?
2. When the Tiger was created, what did the stars do?
3. 'Rage, rage against the <u>dying of the light'</u>. What does the underlined phrase mean?
4. What did men from the hills get with them in the poem 'A Hot Noon in Malabar'?
5. Name the poet of the poem 'If'.

Contd...2

IV. Answer any FOUR of the following in about 120 words each: **(4x5=20)**

1. Explain how cosmic pattern is connected to the pattern of human life in the poem 'Night and Death'.
2. What image of the tiger do we get from the poem 'The Tyger'?
3. Analyse the images used in the poem 'Do Not Go Gentle into That Good Night'.
4. Comment briefly on the treatment of time in the poem 'A Hot Noon in Malabar'.
5. Explain the theme of night and death in the poem 'Night and Death' and bring out the connection between the two as depicted by the poet.
6. Comment on the appropriateness of the title of the poem 'If'.

UNIT - III (SHORT – STORY)

V. Answer any THREE of the following in about 150 words each: **(3x5=15)**

1. Discuss the tone of the story 'Getting Married'. How does the narrator bring out this tone?
2. Why does Paham buy more and more land? What does this signify?
3. Do you think Celia and Ronald will make an ideal couple? Justify your answer.
4. What is the significance of the argument that the two sisters have in the story 'How Much Land Does a Man Need? How is it related to what happens later?
5. The statement from the conclusion to the story 'Getting Married', '.... There's too much "arranging" and settling" and "fixing" about the thing for me', aptly describes the narrator's attitude to life. Discuss.

UNIT – IV (Grammar and Writing Skills)

VI. A. Fill in the blanks with the appropriate idioms and phrases from the ones given in brackets: **(6x1=6)**

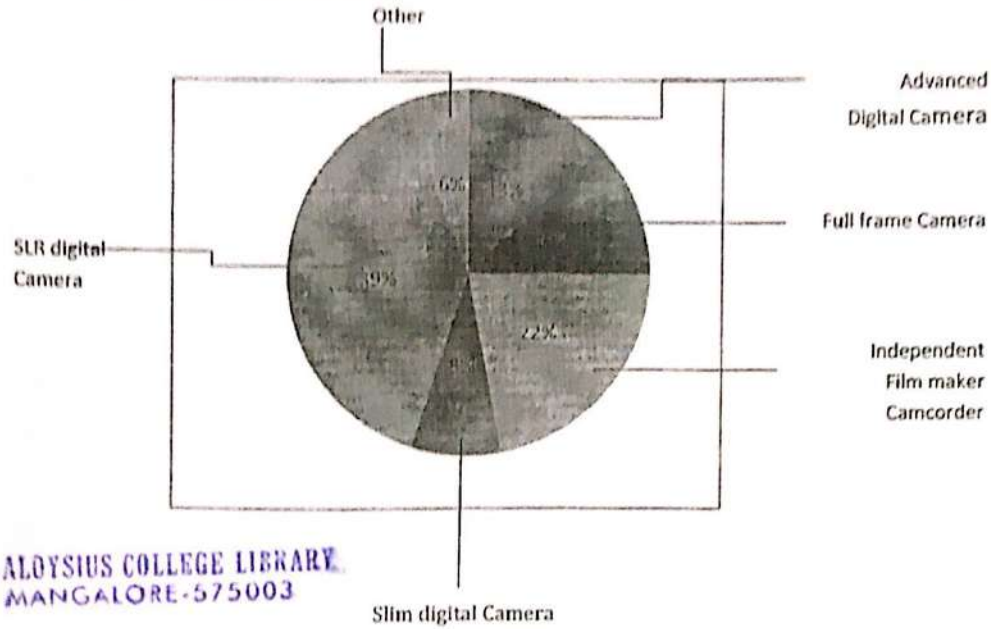
(Bell the cat, turn the clock back, come to a head, left out in the cold, under a cloud, light at the end of the tunnel, hit the sack, throw a spanner in the work, cut no ice, jump the gun)

1. After a heated argument, Matters had ___ when the junior officer threw a shoe at the manager.
2. His name is _____ after his assistant announced that he must have taken a huge bribe to get the bill passed.
3. It has been a hard day's work and you should _____.
4. The convict's is desperate lies ___ with the judge, who went with the evidence severely against him.
5. The prisoner saw no _____ and was convinced he would be hanged.
6. He couldn't ___ and bring back the dead.

Contd...3

B. Analyse the following graph. Write a report in about 150 words: **(1x6=6)**

Sales of different types of cameras



C. Write a dialogue in about 150 words in 5 turns each: **(1x6=6)**

You want your Principal to permit you to celebrate fresher's day in your college. Write a dialogue between you and your Principal.

D. Develop a story based on the hints given below in about 150 words. **(1x6=6)**

A sailor took his pet monkey with him, to sea trip _____ terrible storm overturned ship, _____ a dolphin saved the monkey's life _____ took monkey to an island _____. Monkey said that he was a prince _____. Dolphin understood his lie ___ left monkey alone on the island.

E. Read the following passage and answer the questions. Answer in a word/phrase/sentence for 1 mark questions and in 2 or 3 sentences for 2 marks questions. **(6)**

The culture of nuclear families is in fashion. Parents are often heard complaining about the difficulties in bringing up children these days. Too much of freedom in demand, too much independence, overnight parties, excessive extravagance, splurging pocket money, no time for studies and family, all this is a common cry of such families. Aren't parents, themselves, responsible for this pitiful state? The basic need of a growing youth is the family, love, attention and bonding along with moral values. One should not forget that charity begins at home.

Only the reasonable demands need to be fulfilled, as there are too many expenses to be met and too many social obligations to be taken care of by the parents. Earlier there never existed the concept of old-age homes. There was a deep respect for the family elders, and love, care and concern for the youngsters. Even the minor family differences were solved amicably in the joint families.

i. Mention any two major common concerns of a nuclear family. **(1)**
ii. Who, according to the passage, is responsible for them? **(1)**
iii. Explain the expression 'Charity begins at home'. **(1)**
iv. Find out the word in the passage which means The pleasant and friendly manner in which a difficult situation is dealt with. **(1)**
v. Describe the atmosphere in joint families. **(2)**

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(2019 Batch Onwards)

G. 136.1/336.1/436.1/536.1/636.1 Reg. No. | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Com./B.B.A./B.Sc./B.C.A. - Semester I – Degree Examination

October - 2019

HINDI

Time: 3 hrs. Max Marks: 100

I. अ) एक वाक्य में उत्तर लिखिए : (6x1=6)

1. स्वरों के कितने भेद हैं ?
2. व्यंजन किसे कहते हैं ?
3. भाषा की परिभाषा लिखिए।
4. वृद्धि संधि कैसे बनायी जाती है ?
5. निरर्थक शब्द किसे कहते है ?
6. द्रव्यवाचक संज्ञा के लिए उदाहरण लिखिए।

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए : (2x7=14)

1. स्वर संधि की परिभाषा देकर उसके भेदों को सोदाहरण समझाइए ।
2. कारक की परिभाषा लिखकर उसके भेदों को उदाहरण सहित लिखिए।
3. संज्ञा की परिभाषा के साथ उसके भेदों को सोदाहरण समझाइए।

II. अ) एक वाक्य में उत्तर लिखिए : (6x1=6)

1. धातु की परिभाषा लिखिए।
2. 'सुधा ने पुस्तक खरीदी' वाच्य बदलिए।
3. सार्वनामिक विशेषण की परिभाषा लिखिए।
4. कर्तृ वाच्य किसे कहते हैं ?
5. प्रश्नवाचक सर्वनाम की परिभाषा लिखिए।
6. क्रिया के मुख्य कितने भेद हैं ?

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए : (2x7=14)

1. विशेषण की परिभाषा लिखकर उसके भेदों को सोदाहरण लिखिए।
2. वाच्य किसे कहते हैं ? उसके भेदों को उदाहरण सहित लिखिए।
3. कर्म के अनुसार क्रिया के भेदों को सोदाहरण समझाइए साथ ही उनके अंतर स्पष्ट लिखिए।

Contd...2

III. अ) एक वाक्य में उत्तर लिखिए : (6x1=6)

1. घीसू के बेटे का नाम क्या था ?
2. "अमृतसर आगया" कहानी के लेखक कौन हैं ?
3. डॉक्टर ठाकुर के ड्राइवर का नाम क्या है ?
4. वार्षिक कृषि महोत्सव के लिए किसका खेत चुना गया था ?
5. सुनयना किसकी बेटी है ?
6. कफ़न के लिए कितने रुपये जमा हुए ?

आ) किसी एक कहानीकार का परिचय लिखिए : (1x6=6)

1. जयशंकर प्रसाद 2. भीष्म साहनी

इ) किसी एक की संदर्भ सहित व्याख्या कीजिए : (1x6=6)

1. "अवश्य तुम अपनी झोंपडी में यह रात बिताओ; प्रभात से तो राज – मन्दिर ही तुम्हारा लीला –निकेतन बनेगा ।"
2. "बस करो और कुछ नहीं कहना । घर जाओ और विवाह की तैयारी करो ।"

ई) किसी एक प्रश्न का उत्तर लिखिए : (1x12=12)

1. 'कफ़न' कहानी का सार लिखकर घीसू और माधव की मानसिकता को अपने शब्दों में वर्णन कीजिए ।
2. "पुरस्कार" कहानी का सार लिखिए ।

IV. अ) एक वाक्य में उत्तर लिखिए : (1x6=6)

1. कितने तोले की बिल्ली बनाने की बात ठीक हुई ?
2. भोलाराम की उम्र क्या थी ?
3. "अपना अपना भाग्य" कहानी के लेखक कौन है ?
4. "मक्रील" कहानी के लेखक कौन है ?
5. बिल्ली का नाम क्या था ?
6. भोलाराम का जीव कहाँ अटका हुआ था ?

आ) किसी एक कहानीकार का परिचय लिखिए : (1x6=6)

1. भगवतीचरण वर्मा 2. जैनेन्द्र कुमार

इ) किसी एक की संदर्भ सहित व्याख्या कीजिए : (1x6=6)

1. "माता, भोलाराम को क्या बीमारी थी ?"
2. " काश, जीवन में मेरे सुख – दुःख का कोई अवलम्ब होता । मेरा कोई साथी होता ।"

ई) किसी एक प्रश्न का उत्तर लिखिए : (1x12=12)

1. "भोलाराम का जीव" कहानी का सार विशेषताओं के साथ लिखिए ।
2. "मक्रील" कहानी का सार लिखिए ।

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(2015 batch onwards)

G 537.1/637.1

Reg.No. | | | | | | |

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)

ಮಂಗಳೂರು

ಬಿ.ಎಸ್ಸಿ./ಬಿ.ಸಿ.ಎ. – ಮೊದಲನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ

ಆಕ್ಟೋಬರ್ – 2019

ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ – 1

ಸಮಯ: 3.00 ಘಂಟೆ ಗರಿಷ್ಠ ಅಂಕ: 100

I. ಕಾವ್ಯ ಭಾಗ – 1

ಅ. ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (10×2=20)

1. ಹರಿಶ್ಚಂದ್ರನು ತನ್ನ ಪತ್ನಿ ಪುತ್ರರನ್ನು ಮಾರಾಟ ಮಾಡಿದ ಸನ್ನಿವೇಶವನ್ನು ವಿವರಿಸಿ
2. ಭಾರತೀಯ ಸಂಸ್ಕೃತಿಯ ಮೌಲ್ಯಗಳು 'ಯೋಧ ಮತ್ತು ಹೆಂಗಸು' ಕಥನ ಕವನದಲ್ಲಿ ಮೂಡಿ ಬಂದ ಬಗೆ ಹೇಗೆ? ವಿವರಿಸಿ
3. 'ಇಗೋ ಬಂದೆ' ಕವನದಲ್ಲಿ ಆಧುನಿಕ ಮಾನವನ ತಲ್ಲಣಗಳು ಹೇಗೆ ವ್ಯಕ್ತವಾಗುತ್ತವೆ? ವಿವರಿಸಿ

ಆ. ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (3×1=3)

1. ಚಂದ್ರಶೇಖರ ಕಂಬಾರ
2. 'ಮುಟ್ಟಾಟ' ಕವನದಲ್ಲಿ ಮಾನವ ಸಂಬಂಧಗಳ ಚಿತ್ರಣ

ಇ. ಕೆಳಗಿನ ಎರಡು ಪದ್ಯಗಳಲ್ಲಿ ಒಂದರ ಭಾವಾನುವಾದ – ಸಂದರ್ಭ –ಸ್ವಾರಸ್ಯಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ (6×1=6)

1. ಎನಿಸುಕಾಲ ಕಲ್ಲು ನೀರೊಳಗಿದ್ದಡೇನು
ನೆನೆದು ಮೃದುವಾಗಬಲ್ಲುದೆ ಅಯ್ಯ
ಎನಿಸುಕಾಲ ನಿಮ್ಮ ಪೂಜಿಸಿ ಏವೆನಯ್ಯ
ಮನದಲ್ಲಿ ದೃಢವಿಲ್ಲದನ್ನಕ್ಕ
ನಿಧಾನವ ಕಾಯ್ದಿರ್ದ ಬೆಂತರನಂತೆ
ಅದರ ವಿಧಿ ಎನಗಾಯ್ತು ಕೂಡಲಸಂಗಮದೇವಾ

2. ಬದಿ ಸೋದರರ ಸೀಮೆ ಸರಿಬೆರಿಸಿ ಹೊಸ ಮೇರೆ
ಭೂಮಿಯ ನಕಾಶವನು ರಚಿಸಬೇಕು
ಜೀವ ಜೀವಗಳನ್ನೇ ಪಣಕಿಟ್ಟು ಹೊಸ ವಿಶ್ವ
ನವ್ಯ ಬ್ರಹ್ಮರು ನಾವು ತೂಗಬೇಕು

ಈ. ಕೆಳಗಿನ ಪದ್ಯದ ಮೂರು ಸಾಲುಗಳಲ್ಲಿ ಎರಡರ ಸಂದರ್ಭ – ಸೂಚಿಸಿ ಸ್ವಾರಸ್ಯವನ್ನು ವಿಶ್ಲೇಷಿಸಿ (3×2=6)

1. ಉತ್ತಮರ ಮುಂದಾವ ಠಕ್ಕಿರಲಾಪುದು
2. ನನ್ನನ್ನು ಕರೆಯುವರು ಪಂಪನೆಂದು
3. ನಡುವಿರುಳೆದ್ದ ಕುರುಡಂಗೆ ಅಗುಸೆಯಲ್ಲಿ ಬೆಳಗಾದಂತೆ

ಉ. ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (1×5=5)

1. ಹರಿಶ್ಚಂದ್ರನನ್ನು ಹೊನ್ನಿಗಾಗಿ ಬೆಂಬಿಡದೆ ಕಾಡುವವರು ಯಾರು?
2. ಬಸವಣ್ಣನ ಜನ್ಮಸ್ಥಳ ಎಲ್ಲಿ?
3. 'ನಡೆದುಬಂದ ದಾರಿ' – ಇದು ಯಾರ ಕೃತಿ?
4. ಸು.ರಂ.ಎಕ್ಕುಂಡಿಯವರ ಪೂರ್ಣ ಹೆಸರೇನು?
5. ಚಂದ್ರಶೇಖರ ಕಂಬಾರರ ಮಹಾಕಾವ್ಯ ಯಾವುದು?

Contd..2

II. ಗದ್ಯ ಪ್ರಬಂಧಗಳು

ಅ. ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (10×2=20)

1. 'ಬಂದನಾ ಹುಲಿರಾಯನು' ಪ್ರಬಂಧದ ಸ್ವಾರಸ್ಯವನ್ನು ವಿವರಿಸಿ
2. 'ರಾಷ್ಟ್ರೀಯತೆ'ಯ ಕುರಿತು ಲೇಖಕರ ನಿಲುವುಗಳೇನು? ವಿವರಿಸಿ
3. ಕನ್ನಡ ಮತ್ತು ಇಂಗ್ಲಿಷ್ ಭಾಷೆಗಳ ಸಂಬಂಧದ ಹೊಸ ವಿನ್ಯಾಸವನ್ನು ಚರ್ಚಿಸಿ

ಆ. ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (6×1=6)

1. ಕನ್ನಡ ಭಾಷೆಯ ಅಭಿವೃದ್ಧಿಯ ಕುರಿತು ಲೇಖಕರ ನಿಲುವನ್ನು ಬರೆಯಿರಿ
2. 'ಸಾಹಿತ್ಯವು ಜನರನ್ನು ಆತ್ಮಶೋಧನೆಮಾಡಲು ಹಚ್ಚುತ್ತದೆ'–ಕೆ.ವಿ.ತಿರುಮಲೇಶರ ಈ ಮಾತನ್ನು ಪುಷ್ಟೀಕರಿಸಿ

ಇ. ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (1×4=4)

1. 'ನೆನಪಿನ ದೋಣಿಯಲ್ಲಿ' – ಇದು ಯಾರ ಆತ್ಮಕಥನ?
2. ಕೆ.ವಿ.ತಿರುಮಲೇಶರ ಮಹಾಕಾವ್ಯ ಯಾವುದು?
3. ಇಂಗ್ಲಿಷ್ ವಾಂಶಿಕವಾಗಿ ಯಾವ ಭಾಷಾ ಮಾದರಿಯನ್ನು ಅನುಸರಿಸುತ್ತದೆ?
4. 'ಕನ್ನಡ ಮತ್ತು ಇಂಗ್ಲಿಶ್ ಸಂಬಂಧದ ಹೊಸ ವಿನ್ಯಾಸ' – ಈ ಲೇಖನವನ್ನು ಯಾವ ಕೃತಿಯಿಂದ ಆಯ್ದುಕೊಳ್ಳಲಾಗಿದೆ?

III. ಕಥೆ

ಅ. ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (10×1=10)

1. ಆರೋಗ್ಯವಂತ ಸಮಾಜ ಸ್ಥಾಪನೆಯ ಸಂದೇಶವು 'ಒಂಟಿಬ್ಯಾರಿಯೂ ಅವಭೃತ ಉತ್ಸವವೂ' ಕತೆಯಲ್ಲಿ ಹೇಗೆ ವ್ಯಕ್ತಗೊಂಡಿದೆ? ವಿವರಿಸಿ
2. ಕಾರ್ಮಿಕ ವರ್ಗದ ಶೋಷಣೆ 'ಬಂಧಮುಕ್ತಿ' ಕತೆಯಲ್ಲಿ ಹೇಗೆ ಅನಾವರಣಗೊಂಡಿದೆ? ವಿವರಿಸಿ

ಆ. ಕೆಳಗಿನ ಮೂರು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (3×2=6)

1. ಒಗ್ಗರಣೆ ಶೀನಪ್ಪನ ಪಾತ್ರ ಚಿತ್ರಣ
2. ಭದ್ರಪ್ಪನ 'ಖಾಲಿಕಾಗದ' ಮತ್ತು ಬರಹತುಂಬಿದ ಕಾಗದ' ಅರ್ಥದ ಸಾಂಕೇತಿಕತೆ
3. ದುಡಿಯುವ ವರ್ಗದ ಜನರ ಸಂಕಷ್ಟಗಳು

ಇ. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತು ನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (1×4=4)

1. 'ಒಗ್ಗರಣೆ' ಪದ ನಿಷ್ಪನ್ನವಾದ ಬಗೆ ಹೇಗೆ?
2. 'ದೇವಸ್ಮರಣೆ' – ಇದು ಯಾರ ಕುರಿತಾದ ಸ್ಮರಣಸಂಪುಟ?
3. 'ಬಂಡಾಯ' ಕೃತಿಯ ಕರ್ತೃ ಯಾರು?
4. ಡಾ. ಪ್ರಭಾಕರ ಶಿಶಿಲರು ಮಹಾಭಾರತವನ್ನಾಧರಿಸಿ ರಚಿಸಿದ ಕಾದಂಬರಿ ಯಾವುದು?

IV. ಕ್ರಿಯಾತ್ಮಕ ಕನ್ನಡ

ಅ. ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (7×1=7)

1. ಪ್ರಬಂಧ ಎಂದರೇನು ? ಅದರ ಸ್ವರೂಪದ ಕುರಿತು ವಿವರಿಸಿ
2. ಪ್ರಬಂಧದ ಪ್ರಕಾರಗಳು ಯಾವುವು? ವಿವರಿಸಿ

ಆ. ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (1×3=3)

1. ಪ್ರಬಂಧವನ್ನು 'ಎಸ್ಸೆಯ್' ಎಂದು ಹೇಳಿದ ಫ್ರೆಂಚ್ ಬರಹಗಾರ ಯಾರು?
2. 'ಪದ್ಯಂ ವದ್ಯಂ ಗದ್ಯಂ ಹೃದ್ಯಂ' ಎಂದು ಹೇಳಿದ ಕವಿ ಯಾರು?
3. 'ಗಾಳಿಪಟ' ಇದು ಯಾವ ಪ್ರಕಾರದ ಪ್ರಬಂಧಕ್ಕೆ ಉತ್ತಮ ಉದಾಹರಣೆಯಾಗಿದೆ?

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(2016 batch onwards)

G 538.1 Reg. No: | | | | | | |

St. Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

SANSKRIT

Time: 3 Hours **Max. Marks: 100**

1 *श्लोकत्रयं कर्णाटकभाषया आङ्ग्लभाषया वा अनुवादं कृत्वा विवृणुत ।* **3 X 8 = 24**

1.1 सहधर्मिणीं वनान्ताद्दशरथसूनोर्जहार दशवक्त्रः ।
बन्धनमाप समुद्रो न दुर्जनस्यान्तिके निवसेत् ॥

1.2 भनिष्टो भारविश्चापि नष्टो भिक्षुर्नष्टो भीमसेनोऽपि नष्ट : ।
भुक्तुण्डोऽहं भूपतिस्त्वं हि राजन् भम्भावल्यां अन्तकस्सन्निविष्टः ॥

1.3 शरतल्पमधियानाद्भीष्मादाकर्ण्य धर्मजो धर्मान् ।
दुःखं जहौ दुरन्तं प्रष्टव्याः सत्पथं वृद्धाः ॥

1.4 नान्ने तवेच्छा न च वाससीच्छा शय्यासु नेच्छा न च भूषणेच्छा ।
परं त्ववश्यं बत वाञ्छसि त्वं निरन्तरं तत्कटिसूत्रमेकम् ॥

1.5 यां चिन्तयामि सततं मयि सा विरक्ता साप्यन्यमिच्छति जनोऽप्ययमन्यसक्तः ।
अस्मत्कृते च परितुष्यति काचिदन्या धिक् तां च तं च मदनं च इमां च मां च ॥

2 *पञ्चानां सन्दर्भसहितविवरणं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।* **5 X 4 = 20**

2.1 तस्मै दत्ता विकटनितम्बा ।
2.2 किमिदं तवाद्भुतं चरितम् ।
2.3 अहं इन्द्रः देवानाम्, भजस्व माम् ।
2.4 स्वाध्यायप्रवचनाभ्यां न प्रमदितव्यम् ।
2.5 सोऽभ्यङ्गः श्रमवातादीन् च हन्ति ।
2.6 दुष्टे दण्डः प्रयोक्तव्यः ।
2.7 मताः सर्वाः सर्वभूतानां सुखार्थाः प्रवृत्तयः ।

3 *द्वयोः संस्कृतभाषया टिप्पणीं लिखत ।* **2 X 6 = 12**

3.1 उपनिषत् ।
3.2 पुराणानि ।
3.3 व्यायामविधिः ।
3.4 श्वशुरगृहनिवासः ।

4 *चतुर्णां कर्णाटकभाषया आङ्ग्लभाषया वा प्रबन्धरूपेण उत्तरयत ।* **4 X 8 = 32**

4.1 सौभरेः गृहस्थाश्रमसुखं विशदयत ।
4.2 संमार्जनीस्तुतिः विषये पाठोक्तरीत्या प्रबन्धं लिखत ।
4.3 आचार्यानुशासनं पाठस्य सारं लिखत ।
4.4 दिनचर्या पाठोक्त जीवनमौल्यानि विवृणुत ।
4.5 नहुषस्य कथां विवृणुत ।
4.6 उपदेशशतके पद्यद्वयं व्याख्यात ।

Contd...2

12 X 1 = 12

5 *रिक्तस्थानानि पूरयत । (द्वादशानाम्)*

5.1 ____ अन्तर्जले उवास । (सौभरिः, सौभरेः, सौभरिम्)

5.2 भवत्याः साह्यान् गृहान्तः ____ । (परिशोधयन्ति, परिशोधनेन, परिशोधनस्य)

5.3 मम ____ उपगतम् । (दुःखस्य, दुःखम्, दुःखेण)

5.4 ____ देवराज्यं पर्यत्यजत् । (इन्द्रैः, इन्द्रस्य, इन्द्रः)

5.5 देवपितृकार्याभ्यां न ____ । (प्रमदितेन, प्रमदितव्यम्, प्रमदितम्)

5.6 ब्राह्मे ____ उत्तिष्ठेत्स्वस्थो रक्षार्थमायुषः । (मुहूर्ते, मुहूर्तम्, मुहूर्तस्य)

5.7 ____ मां शक्रोपभुक्तं उपस्थितम् । (सर्वाणि, सर्वम्, सर्वैः)

5.8 तस्मै ____ विकटनितम्बा । (दत्ता, दत्तात्, दत्तः)

5.9 गजमाकर्णन् सिंह इव नरो ____ । (मार्येत, मार्यत, मार्यन्ते)

5.10 ____ अतोऽसि पूज्या । (त्वम्, तेन, तस्य)

5.11 आचार्यः अन्तेवासिनम् ____ । (अनुशास्ति, अनुशासितव्यम्, अनुशासितेन)

5.12 न पीडयेत् ____ । (इन्द्रियम्, इन्द्रियात्, इन्द्रयाणि)

5.13 त्वम् अतोऽसि ____ । (पूज्यानि, पूज्या, पूज्यात्)

5.14 सत्यं वद ____ चर । (धर्मम्, धर्मेण, धर्मात्)

5.15 साम्ना ____ वशे कुर्यात् । (मूर्खम्, मूर्खः, मूर्खात्)

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(2018 Onwards)

G 139.1/339.1/539.1

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Com./B.Sc. Semester I - Degree Examination
October - 2019
KONKANI

Time: 3 Hours **Max. Marks: 100**

I ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ **(1×5=5)**

1. ಗಾಂವ್ ಕೆದಾಳಾ ಜಾಗೊ ಜಾತಾ ?
2. ಕೋಣ್ ರುದಾನ್ ಕರ್ತಾ ?
3. ಪಾವ್ಲ್ ಲೂವಿಸ್ ಬೊತೆಲ್ಲೊನ್ ಬರಯಿಲ್ಲೆಂ ಖಂಚೆಯ್ ಏಕ್ ಕವನ್ ಉಲ್ಲೇಖ್ ಕರಾ.
4. ಆಮಿ ಕಿತೆಂ ಉಲಯ್ತಾಂವ್ ?
5. ಮಿರ್ನಿ ಖಂಯ್ ಚಡ್ತಾ ?

ಆ) ಖಂಚಾಯ್ ದೋನ್ ಸವಾಲಾಂಕ್ ಜಾಪಿಂ ಬರಯಾ **(5×2=10)**

6. ಕುರ್ಸ್ಯಾಚೊ ಆವ್ತಾರ್ ಸ್ವಾಮಿ ಸುಪ್ರಿಯಾ ಕಶೆಂ ವರ್ಣಿತಾ ?
7. ಕೆಲ್ಡಿ ಆನಿ ಸಂಸಾರಾಚ್ಯೊ ರಾಟಾವಳಿ (ಪಟ್ಟಾಂಗ) ಕಶ್ಯೊ ಸರಿಂ ಜಾತಾತ್ ?
8. "ಸತ್ ಉಲಂವ್ಟೆ ಆನಿ ಘಟಿಂ ಸಾಂಬಾಳ್ಟೆ" ಕಿತ್ಲೆ ಕಠಿಣಾಯೆಚೆ ಮ್ಹಳ್ಳೆ ಸತ್ ಕಶೆಂ ಅನಾವರಣ ಜಾಲಾ ?

ಇ) ಖಂಚಾಯ್ ದೋನ್ ಕವನಾಂಚೆ ಸ್ವಾರಸ್ಯ್ ಬರವ್ನ್ ವಿವರ್ಸಿಯಾ **(5×2=10)**

9. ವಾಹನಾಂನಿ ಉಬೊವ್ನ್ ಘಾಲ್ಲಿ ತಾಂಬ್ಡಿ ಧುಳ್
   ಗಾಂವ್ಚ್ಯ್ಯ ಕೊನ್ಯಾರಾವೊನ್ ಘೊಂಕ್ಟೊ ಪೆಟೊ
   ಪಂಯ್ಲೆಂಚಾಕ್ಯಿ ಪಾಡ್ ಜಾವ್ನ್ ಗೆಲೊ ರಸ್ತೊ
   ಆನಿ ಸ್ವಸ್ತ್ ನಿದೊನ್ ಪಡ್ಲ್ಲೊ ಲೋಕ್.

10. ದೆಕುನ್ ಭಾವಾ, ಪದಾಂ ಹಿ ಚತ್ರಾಯ್ ಆಸೊಂ
    ಭುರ್ಗ್ಯಾಂಕ್ ಖಂಯ್ಚಿಯ್ ಬರಿ ಬೂದ್ ಸಾಂಗ್ಟೆ ಆದಿಂ
    ತುಕಾಚ್ ಪಳೆ, ಆಸಾಗಿ ತಿ ಸಾಮರ್ಥಿ ?
11. ಕಿತ್ಲೊ ಕಾಳ್ ಥಾವ್ನ್ ರಡ್ತಾ ಬಸೊನ್
    ಇತ್ಲೆಂ ಮ್ಹಜೆ ಭುರ್ಗೆ ಆಸೊನ್
    ನಾ ಮ್ಹಣ್ ಉರ್ಬೆನ್ ಮ್ಹಜೆ ಪಾಸುನ್
    ವಾವುರ್ತಾಲೊ ಕೋಣ್ ಏಕ್.

ಈ) ಖಂಚಾಯ್ ಎಕಾ ಕವಿಚಿಂ ಪರಿಚಯ್ ದಿಯಾ **(5×1=5)**

12. ವಾಲ್ಟರ್ ದಾಂತಿಸ್
13. ಲೂವಿಸ್ ಪಾವ್ಲ್ ಬೊತೆಲ್ಲೊ.

II ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ **(1×6=6)**

14. ಖಿರ್ಸಾ ಗುಡ್ಯಾರ್ ಕಿತೆಂ ಆಕ್ರಮ್ ಚಲ್ತಾ ?
15. ಜುಜೆ ಕಿತೆಂ ಕಾಡುಂವ್ಕ್ ವೆತಾ ?
16. ಗೊರ್ಯಾಚೆ ನಾಂವ್ ಕಿತೆಂ ?
17. ಕೊಣಾಕ್ ಪೆರ್ಗುಡೆ ಮ್ಹಣ್ ಅಪಾಯ್ತಾಲೆಂ ?
18. ಕೊಣೆಂ ಜೋನ್ಸಾಚೆ ಕಾಫ್ಯೆ ತೋಟ್ ಅಪ್ಣಾಚೆ ಕೆಲೆಂ ?
19. ಆಬ್ ಧುವೆಕ್ ಕಿತ್ಯಾಕ್ ಕಾಂಠಾಳ್ತಾಲೊ ?

Contd...2

ಆ) ಖಂಚಾಯ್ ದೋನ್ ವಾಕ್ಯಾಂಚೊ ಸ್ವಾರಸ್ಯ್ ಬರಯಾ (5×2=10)

20. ಪಾರಿ ಪಾಟ್ಲ್ಯಾನ್ ಧಾವೊನ್ ಘರಾ ಪಾಟ್ಲ್ಯಾನ್ ಯೇ.
21. ತಾಕಾಂ ಎಕ್ಲಿ ತಿಕ್ಲೆಂ ಪಾವನಾತ್ಲ್ಲಿಂ.
22. ಖಂಡಿತ್ ಹಾಂತುಂ ಮ್ಹಾಕಾ ಕಸ್ಲೆಂಬ್ ಬಾಧಕ್ ನಾಂ ಮೂ ?

ಇ) ಖಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ (5×1=5)

23. ಖಂಚಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ.
24. ಖಿಸ್ಸಾ ಗುಡ್ಯಾರ್ ಚಲ್ಯ್ಯಾ ಅಕ್ರಮಾಚೊ ಪರಿಣಾಮ ಪಿಚ್ಚಾ ವಯ್ಸ್ರ ಕಸೊ ಜಾತಾ ?

ಈ) ಖಂಚಾಯ್ ಎಕಾಚೆ ಪಾತ್ರಚೆ ಪರಿಚಯ್ ಕರಾ (4×1=4)

25. ಲಿಗೋರಿ ಮೊಂತೆರೊಚೆಂ ಕುಟಾಮ್
26. ಪೆರಾಂ ರೂಕ್

III ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ: (1×5=5)

27. ಮ್ಹಾತಾರ್ಯಾಚೆ ಪೂತ್-ಸುನ್ ಖಿಂಯ್ಸರ್ ವಸ್ತಿ ಕರ್ತಲಿಂ ?
28. ವೆರೊನಿಕಾಕ್ ಕೋಣ್ ಕುಮಕ್ ಕರ್ತಾ ?
29. ಭಾವೊಜಿ ಮ್ಹಣ್ ಕೋಣ್ ಕೊಣಾಕ್ ಉಲೊ ಕರ್ತಾ ?
30. ಮ್ಹಾತಾರೊ ಚರ್ಬೆಲಾ ನಾಟಕಾಚೊ ಬರಯ್ನಾರ್ ಕೋಣ್ ?
31. ವಿಕ್ಟರ್ ಕಿತೆಂ ಫಿರ್ಯಾದ್ ಘೇವ್ನ್ ಆಯಿಲ್ಲೊ ?

ಆ) ಖಂಚಾಯ್ ದೋನ್ ವಾಕ್ಯಾಂಚೆ ಸಂದರ್ಭ್ ಕಳವ್ನ್ ಸ್ವಾರಸ್ಯ್ ಬರಯಾ (5×2=10)

32. ಮ್ಹಾತರೊ ಚರ್ಬೆಲಾ
33. ಕಾಜಾರಿ ಜಿವಿತಾಂತ್ ತುಫಾನ್ ಉಟ್ಲಾಂ
34. ಮಿವ್ನೆಕ್ ಮೀಟ್ ಘಾಲ್ನ್ ಲೇಂವ್

ಇ) ಖಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ (10×1=10)

35. ಲಿಯಾಬಾಚೆ ವ್ಯಕ್ತಿತ್ವ 'ಮ್ಹಾತರೊ ಚರ್ಬೆಲಾ' ನಾಟಕಾಂತ್ ಕಶೆಂ ವ್ಯಕ್ತ್ ಜಾಲಾ? ವಿವರ್ಸಿಯಾ.
36. ವೆರೋನಿಕ ಬಾಯ್ ಮೋನಿಕ ಜಾಲ್ಲಿ ವೇಳ್ ಘಡಿ ಕಳಯಾ.

IV ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ: (1×5=5)

37. ಅಕ್ಷರ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ ?
38. ಕೊಂಕ್ಣೆಚೆ ಲಿಂಗ್ ಬರಯಾ.
39. ನಾಮ ಪದಾಂತ್ ಕಿತ್ಲೆ ವರ್ಗ್ ಆಸಾತ್? ಆನಿ ಖಂಚೆಂ ತೆಂ ?
40. ಕೊಂಕ್ಣಿ ವರ್ಣ ಮಾಲಾಂತ್ ಕಿತ್ಲಿ ವರ್ಣಾಂ ಆಸಾತ್ ?
41. ಎಕಾಕ್ಷರಿಕ ಆನಿ ದೋನಾಕ್ಷರಿಕ್ ಏಕೆಕ್ ಉದಾಹರಣ ದಿಯಾ.

ಆ) ತಿನೀ ಸವಾಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ (5×3=15)

42. ಕೊಂಕ್ಣೆಚೆ ವಚನಾ ಉದಾಹರಣ ಸಮೇತ ವಿವರ್ಸಿಯಾ.
43. ಅಕ್ಷರ್ ಮಳ್ಯಾರ್ ಕಿತೆಂ ? ಎಕಾಕ್ಷರಿಕ ಆನಿ ದೋನಾಕ್ಷರಿಕ ಉದಾಹರಣ ದಿಯಾ.
44. ಸರ್ವನಾಮಚೆ ಪ್ರಕಾರ ಬರವ್ನ್, ಖಂಚಯ್ ಏಕ್ ಪ್ರಕಾರ್ ವಿವರ್ಸಿಯಾ.

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(2019 Batch onwards)

G 140.1 Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A. /B.Sc./B.Com./B.B.A./B.C.A. - Semester I -Degree Examination

October – 2019

ADDITIONAL ENGLISH
CROSS CULTURAL TEXTS - I

Time: 3 hrs. Max Marks: 100

SECTION A: Prose

I. Answer the following in a word. (1x5=5)

1. In "The Adventure of the Speckled Band", Julia Stoner and Helen Stoner were twin sisters. (True/False).
2. The girl and the boy of " The Human Phonograph", met in 1961 and the story begins in _____ when Mr. Armstrong landed on the moon.
3. The narrator's mother in "A Waterfall of Horses" worked for _____.
4. The short story collection by Shashi Tharoor called _____ was banned during the emergency.
5. Pankaj Mishra in his view on refugee crisis comments on how Hungary now hosts a fascist ideology despite its major role in the _____ in 1989.

II. Answer any FOUR following questions in about 100 words each: (4x5=20)

1. Elucidate on the class divide present in "A Waterfall of Horses".
2. Holmes is known for his uncanny observation skills. Elucidate with reference to "The Adventure of the Speckled Band".
3. "Scientists are privileged exceptions" comment with reference to "The Human Phonograph".
4. What according to Pamuk is important for the development of Europe?
5. How does Tharoor reconcile his faith in India despite living outside India for most of his adult life?
6. Write a short note on the narrator in "A Waterfall of Horses".

III. Answer any ONE of the following in about 250 words each: (1x10=10)

1. "Violence does in truth, recoil upon the violent, and schemer falls into the pit which he digs for another" Comment with reference to " The Adventure of the Speckled Band".
2. "She is an object of fascination perhaps one day she too will become as unremarkable as this qilin". Comment with respect to "The Human Phonograph".
3. How did the people of Pomerang chase away the bilate?
4. How did Holmes solve the murder mystery of Julia Stoner in "The Adenture of the Speckled Band"?

SECTION B: Novel

IV. Answer the following in a word. (1x5=5)

1. Hep and Bok have only _____ time to repay the money.
2. _____ gets involved in an arms deal for a militant group where he lost fifty lakh rupees.

Contd...2

3. _____ is the bassist from Assam who plays in the "The Wedding Plan".
4. Jayden was Kidor's first child, the second was a girl called _____.
5. The plot of the novel is set in _____, the Scotland of East.

V. Answer any ONE of the following in about 250 words each: (1x10=10)

1. Elaborate on the elements of Extortion, smuggling and arms dealing included in the 'The Girl from Nongrim Hills'.
2. Write a short note on 'Bok' in the Girl from Nongrim Hills.
3. How is the protagonist of the girl from Nongrim Hills self destructive?

SECTION C: Poetry

VI. Answer any TWO of the following in about 100 words each: (2x5=10)

1. How does Agha Shahid Ali show his immense love for his country? Answer with reference to "Postcard from Kashmir".
2. What is the reward for the bravery shown by the girls father in "The Orphan Girl"?
3. Give a brief description of the biblical allusions used in "All Along the watchtower".
4. How does Meena Kandaswamy give women the power to militate in Ms. Militancy?

VII. Annotate any TWO of the following in about 100 words each: (2x5=10)

1. Kashmir shrinks into my mailbox
   My home a neat four by six inches.
   I always loved neatness. Now I hold
   The half-inch Himalayas in my hand.
2. No tear is so bright as the tear that flows
   For erring woman's unpitied woes;
   And blest be for ever his honoured name
   Who shelters an orphan form sorrow and shame!
3. No reason to get excited
   The thief he kindly spoke
   There are many were among us
   Who feel that life is but a joke
   But, uh, but you and I, we've been through that
   And this is not our fate
   So let us stop talking falsely now
   The hour's....

SECTION D: Grammar

VIII. Report writing: (1x5=5)

1. The NSS club of St. Mary's College, Mangalore organized a cleanliness drive at central market, Mangalore. Write a report in about 200 words on the camp for your college newsletter. You are John/Josna.

Contd...3

IX. Idioms and Phases:

Choose the appropriate idiom/phrase from the list below to fill in the blanks. **(1x5=5)**

(Pain in the neck, head over heels, round the clock, beat around the bush, dime a dozen, an arm and a leg, feel under the weather)

1. The wedding planner fell _____ for the family servant Alice.
2. The manager told his employee not to _____ but to come to the point.
3. I find reading books a real _____.
4. The prisoners are monitored _____ by the officers. There is no way to escape.
5. Eggs are _____ after the episode of Bird Flu.

X. Restaurant Review: **(1x10=10)**

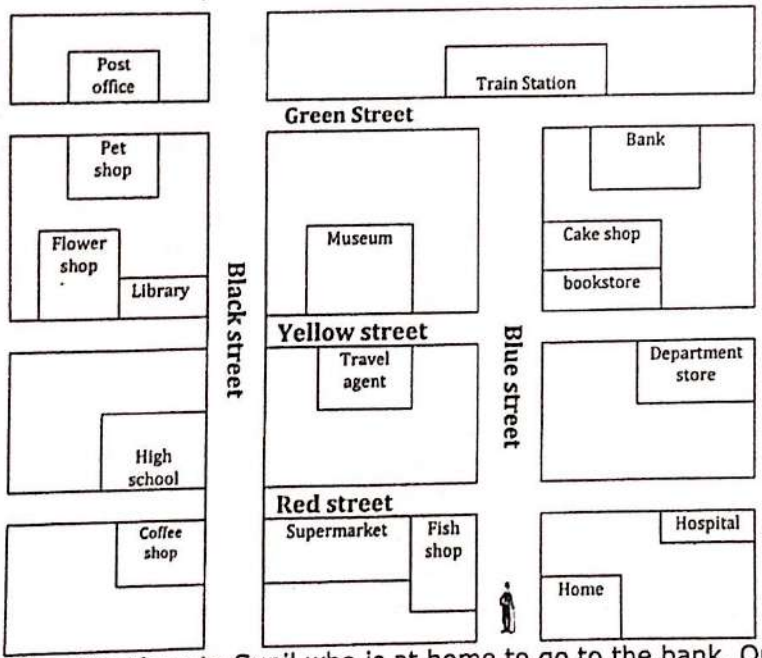
1. Your friend is requesting you to send the restaurant review of the newly opened place in town to the local newspaper. Write the review in not more than 250 words.

XI. Advertisement : **(1x5=5)**

1. Mangalore Ladies Hostel needs the service of a warden. Draft a classified advertisement for publication in a local daily asking deserving candidates to appear for a walk-in-inteview on 8 and 9 November 2019 from 10 am to 1 pm at the YMCA Hall, City Arcade, Bejai, Mangalore. Contract No. 9980414234.

XII. Giving Directions: **(1x5=5)**

Look at the map of the town centre and answer the following questions.



1. Give directions to Sunil who is at home to go to the bank. On his way he has to go to the hospital to collect the medical report.

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(2017 batch onwards)

G 150.1 Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc. /B.Com./B.B.A/B.C.A Semester I – Degree Examination
October – 2019
FRENCH

Time: 3 hrs. **Max Marks: 100**

A. Complétez avec le futur simple (5)

1. En 2025, les hommes (habiter) sur Mars.
2. En 2020, Pai (parler) toutes les langues.
3. En 2023, nous (travailler) deux jours par semaine
4. En 2050, Luke Skywalker et Han Solo (passer) leurs vacances sur Terre.
5. Demain je (voyager) en voiture solaire.

B. Complétez avec *EN, Y, N'EN PAS* (5)

1. J'ai des lunettes, mais ma fille _____
2. Vous êtes chez vous jusqu'à 8h ou jusqu' à 9h ? Je _____ suis jusqu'à 9h.
3. Léa a une voiture, elle _____ conduit souvent.
4. Max a de la chance au jeu. Moi, je _____
5. Vous allez à l'aéroport en bus ou en taxi? Je_____ vais en taxi.

C. Complétez avec le comparatif (5)

1. Les cerises et les nectarines (délicieux +)
2. Il et son frère gagnent (-)
3. Sylvie court (-vite) Ronald
4. Les Marocains et les Indiens boivent du café (=)
5. Le fauteuil et la chaise (+ confortable)

D. Mettez au passé compose (5)

Pierre Boulez nait le 26 mars 1925. Il prend des cours de piano à 7 ans. En 1943, il s'installe à Paris. Au Conservatoire, il fait la connaissance d'Olivier Messiaen, son professeur. Pendant 10 ans, il est le « chef de musique » d'une compagnie de théâtre. Il débute sa carrière de compositeur en 1947. Il reçoit de nombreux prix et devient un compositeur et un chef d'orchestre très célèbre dans le monde. Il meurt le 5 janvier 2016.

E. Donnez deux phrases comme exemple qui correspondent aux clauses suivantes (4)

1. Si + présent+ futur simple
2. Si + présent + impératif

F. Ecrivez l'impératif des verbes suivants (6)

1. Être 2. Avoir 3. Savoir

Contd...2

G. Répondez aux 5 questions en 10 lignes minimum (5 x 6 = 30)

1. Parlez d'un(e) scientifique.
2. Présentez le Président français
3. Que signifie l'école pour demain selon vous?
4. Parlez du château de Chambord
5. Décrivez votre vie à Saint Louis (SAC)
6. Expliquez le système d'éducatif en France.
7. Parlez de l'économie en France.

H. Écrivez une lettre à un(e) ami(e) pour parler de vos dernières vacances. (10)

I. Vous cherchez un travail comme journaliste dans une entreprise française. Rédigez un CV avec une lettre de demande d'emploi. (10)

J. Dialoguez

Votre ami va passer un examen (ou un entretien pour trouver du travail). Il n'est pas sûr de lui. Vous le rassurez. (10)

OU

Vous êtes avec un(e) ami(e). Vous entrez dans un magasin pour acheter un vêtement. La vendeuse vous accueille. Vous demandez conseil. Vous choisissez. Vous essayez le vêtement, etc…

K. Lisez le texte et répondez aux questions (10)

La petite araignée habite dans une toile. Elle a tissé la toile dans un champ. Il y des tournesols dans le champ. La petite araignée a huit pattes et six yeux. La petite araignée mange des insectes tells que des mouches et des fourmis. Elle les attrape dans sa toile. Chaque jour elle tisse une nouvelle toile avec de la soie. La soie d'araignée est très solide. Savez-vous ce qu'elle fait de sa vielle toile ? Elle a roulé et elle la mange.Toutes les araignées fabriquent de la soie. Toutes les araignées ne tissent pas de toiles. Quelquefois les araignées fabriquent des abris pour se cacher. La petite araignée a peur des gens. Elle ne veut pas faire de mal aux gens. La petite araignée veut simplement vivre tranquille et manger des bons plats de mouches.

Les questions (4)

1. Où habite-t-elle la petite araignée ?
2. Où la petite araignée tisse sa toile?
3. Qu'est-ce que la petite araignée mange ?
4. Pourquoi les araignées fabriquent des abris?

Dites Vrai ou faux (3)

1. Toutes les araignées tissent des toiles.
2. La petite araignée mange des fourmis.
3. Elle fait de mal aux gens.
4. La petite araignée a huit pattes.
5. La petite araignée est un animal.
6. Toutes les araignées ne fabriquent pas de la soie.

Trouvez dans le texte (3)

1. Le synonyme de a) *fort* b) *paisible*.
2. Les deux noms des insectes …… , ……..

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10

(2019 Batch onwards)

G 151.1

Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc./B.Com./B.B.A./B.C.A Semester I – Degree Examination

October – 2019

MALAYALAM

Time: 3 Hours

Max. Marks: 100

I. ഒന്നോ രണ്ടോ വാക്യത്തിൽ ഉത്തരമെഴുതുക (5x2=10)

1. കൃഷ്ണനു നൽകാനുള്ള പ്രാഭൃതം കുചേലപത്നി സബാദിച്ചതെങ്ങിനെ ?

2. ഹനുമാനെപ്പോലെ കൃശരായ വാനരൻമാർ ഭീമാകൃതികളായ രാക്ഷസൻമാരെ എങ്ങിനെ നേരിടും എന്ന സീതയുടെ ചോദ്യത്തിന് ഹനുമാൻ നൽകിയ മറുപടിയെന്ത്?

3. കേശവൻനായർക്ക് പശുവിനെ വിൽക്കേണ്ടിവന്നതെന്തുകൊണ്ട് ?

4. വീടിന്റെ തൊട്ടു കിഴക്കുള്ള മന അപ്പുവിന് സ്വന്തം വീട്ടിലുമുപരിയാണ് എന്നു പറയാൻ കാരണമെന്ത് ?

5. കുശിനിപ്പണിക്കാരന് ജോലി നഷ്ടപ്പെട്ടതെങ്ങിനെ ?

II നാലെണ്ണത്തിന്റെ സന്ദർഭവും സാരസ്യവും വ്യക്തമാക്കുക (4x5=20)

6. ഇന്നിനി നമ്മെ മറന്നങ്ങുപോകിലും
എന്നുടെ കണ്ണിനോ പുണ്യമുണ്ടാം

7. സായകം നിഷ്ഫലമാകയില്ലെന്നുമേ
അതിനുതവനയനമൊന്നുപോംനിശ്ചയ–
മന്തരമില്ല നീ പൊയ്ക്കൊൾക നിർഭയം.

8. എനിക്കു പിടിപ്പില്ലെന്നു തിരുമേനി എങ്ങിനറിഞ്ഞു?ഞാൻ കുടിശ്ശിക വരുത്തിയോ?

9. അപ്പുവിനു മര്യാദയൊന്നും നോക്കേണ്ട.ഇഷ്ടമുള്ളതിലെ കേറാം.ഇതിലേയിങ്ങു കേറിക്കോളൂ..

10. പാർട്ടികൾ പലതാണ്.എല്ലാറ്റിലും ഒരേ സമയത്ത് മൂക്കൻ എങ്ങിനെ ചേരും?

Contd...2

G 151.1

III. മൂന്നെണ്ണത്തിനു രണ്ടുപുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക (3x10=30)

11. ദ്വാരകയിൽ നിന്നും സ്വഗൃഹത്തിലേക്കു തിരിച്ച കുചേലന്റെ ചിന്തകളും അനന്തരസംഭവങ്ങളും വിവരിക്കുക
12. ഹനുമാൻ സീതയെ അറിയിച്ച രാമവൃത്താന്തം വിശദമാക്കുക
13. 'നീ' എന്ന സർവ്വനാമത്തിന്റെ പ്രയോഗത്തിൽ ഇംഗീഷിൽ കാണുന്ന പ്രത്യേകതകൾ എന്തെല്ലാം?
14. കേശവൻനായരുടെ കണ്ടത്തിനു മടവെച്ച സംഭവം വിവരിക്കുക

IV. രണ്ടെണ്ണത്തിനു മൂന്നുപുറത്തിൽ കവിയാതെ ഉപന്യസിക്കുക (2x15=30)

15. ഹനുമാന്റെയും സീതയുടെയും സംഭഷണം ക്രോഡീകരിച്ചെഴുതുക
16. 'വിശ്വവിഖ്യാതമായ മൂക്കിൽ' പ്രതിഫലിക്കുന്ന രാഷ്ട്രീയ സാമൂഹിക കാര്യങ്ങൾ വ്യക്തമാക്കുക
17. സർവ്വനാമങ്ങളുടെ പ്രയോഗവും സംസകാരവും തമ്മിൽ എങ്ങിനെ ബന്ധപ്പെട്ടിരിക്കുന്നു?

V. (5 x2=10)

നിർദ്ദേശമനുസരിച്ചെഴുതുക

18. ആഗമസന്ധി എന്തെന്ന് ഉദാഹരണസഹിതം വിവരിക്കുക
19. **വിഗ്രഹിച്ച് സമാസം നിർണ്ണയിക്കുക**

    പുഴക്കര, മുക്കണ്ണൻ

20. തെറ്റുണ്ടെങ്കിൽ തിരുത്തുക

    1. പാത ഇരട്ടിപ്പിക്കൽ ജോലി ഉടൻ പൂർത്തിയാകും.
    2. മഠയൻ വ്യത്യസ്ഥം

21. പൂർണ്ണക്രിയ, അപൂർണ്ണക്രിയ എന്നിവ വിശദമാക്കുക
22. **വാകൃത്തിൽ പ്രയോഗിക്കുക**

    ഓലപ്പാമ്പ്, എടുത്തുചാട്ടം

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(2014 Batch Onwards)

G 501.1 Reg. No. : | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2019
PHYSICS
PROPERTIES OF MATTER, THERMAL PHYSICS & ELECTRICITY - I

Time: 3 hrs. **Max Marks: 100**

SECTION –A

1. **Answer any TEN of the following.** **(2x10=20)**

a) State Hooke's law and explain what is meant by elastic limit.

b) Explain elastic fatigue.

c) Define surface tension. Give its unit.

d) Define forces of cohesion and adhesion.

e) Define viscous force and viscosity.

f) State and explain Stefan's law.

g) State and explain the second law of thermodynamics.

h) What is thermo e.m.f?

i) Explain temperature gradient.

j) Define conductance and give its unit.

k) Show that CR has the unit of time.

l) What are the applications of Schering bridge?

SECTION – B

Answer any TWO full questions from each unit.

UNIT - I

2. a) What is a Cantilever? Obtain an expression for the depression produced at the free end of a loaded cantilever. **(6)**

b) Give the applications of surface tension. **(4)**

3. a) Derive Poiseuilli's formula and explain how it is used to determine the co-efficient of viscosity of a liquid. **(6)**

b) Define torsion. Obtain an expression for the work done in twisting a rod. **(4)**

4. a) Explain with theory, drop-weight method of determining the interfacial tension between two liquids. **(6)**

b) Derive Stoke's formula for the viscous force on a body falling through a viscous medium. **(4)**

UNIT – II

5. a) Describe a Carnot cycle with the help of an indicator diagram and obtain an expression for its efficiency in terms of temperature. **(6)**

b) Describe the porous plug experiment. **(4)**

Contd...2

6. a) Deduce Planck's law using Einstein's A and B coefficients. (6)

b) Give the theory of Forbes method to find thermal conductivity. (4)

7. a) Describe regenerative cooling and cooling by adiabatic demagnetization. (6)

b) Explain the action of a thermo-couple with an example. (4)

UNIT – III

8. a) Derive expression for the growth and decay of current in LR circuit and define the time constant of the circuit. (6)

b) Draw the circuit of Anderson's bridge and give the conditions for dc and ac balance. Write down the conditions for the bridge to be most sensitive. (4)

9. a) Explain with circuit, how high resistance is measured by the method of leakage. (6)

b) State and explain i) voltage division law ii) current division law. (4)

10. a) With the help of a circuit diagram and theory, explain how inductance is measured using Maxwell's bridge. (6)

b) What are passive and active circuit elements? Give examples. (4)

SECTION –C

Answer any <u>FOUR</u> of the following. (4x5=20)

11. Find the elastic energy stored in a wire originally 5m long and 1mm in diameter which has been stretched by 0.3mm due to a load of 10Kg.

12. Water flows through a capillary tube of 1mm internal diameter and length 70cm under the pressure of a column of water 30cm in height. Find the rate of flow of water through the capillary tube.
Coefficient of viscosity of water=$10^{-3}Nm^{-2}S$.

13. A Carnot engine with a temperature of the sink at 290K has efficiency 50%. By how much should the hot source be raised in temperature to make its efficiency 60%?

14. For Hydrogen constants $a=0.245\times10^{6}$ atm cm^{6} mol^{-2} and $b=26.7$ $ccmol^{-1}$. Compute the inversion temperature of Hydrogen.

15. In a Wein's bridge a lossy capacitor having a resistance 5.8Ω is connected in one arm. If the balance is obtained for $R_2=1K\Omega$ and $R_4=2.5K\Omega$, find the value of the capacitor and the power factor. Frequency of the ac supply is 1KHz.

16. A capacitor of 0.25μF is discharged through an inductor of 0.1H and a resistor of 100Ω. Is the discharge oscillatory? Find the frequency of oscillation.

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12

(2014 Batch Onwards)

G 502.1 Reg. No.: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October - 2019
CHEMISTRY

Time: 3 Hours. **Max Marks: 100**

Instructions:
1. **Write the question number and sub division clearly.**
2. **Write equations and diagrams wherever necessary.**
3. **Answer Part-A in the first two pages of the answer book.**

PART –A

Answer any TEN of the following questions in 1 to 3 sentences. **(2X10=20)**

1.a) Define viscosity. Give its S.I unit.

b) What is Joule-Thomson effect?

c) Define collision diameter.

d) Explain intra molecular hydrogen bonding with an example.

e) Calculate bond order of B_2 molecules.

f) Give the hybridisation and shape of SF_4 molecule.

g) Give an example for the use of double-headed arrow notation.

h) What are carbenes? Give one example.

i) What is Diel's Alder reaction?

j) Define standard deviation.

k) Define R_f value.

l) What is elution?

PART – B

Answer any TEN of the following questions in 2 to 5 sentences. **(3X10=30)**

2. i) Distinguish between solid, liquid and liquid crystal.

ii) Explain the principle of determination of surface tension of a liquid.

iii) Van der Waal's constant for CO_2 are a=3.6 atm.dm^6 mol^{-2} and b=4.28x10^{-2} dm^3/mol. Calculate P_c and V_c of the gas.

iv) Give the rules used for filling up of electrons in molecular orbitals.

v) Explain hybridisation and shape of ClF_3 molecule.

vi) Distinguish between bonding and antibonding molecular orbitals.

vii) Write a note on mesomeric effect.

viii) Explain the relative stability of primary, secondary and tertiary carbo cations.

ix) What are dienes? How are they classified?

x) Write a note on determinate errors.

xi) Explain the principle of steam distillation.

xii) Give the principle of column chromatography.

Contd...2

G 502.1

PART – C

(5X10=50)

Answer any TEN of the following questions.

3) Explain the determination of viscocity of a liquid using ostwald viscometer.
4) Derive reduced equation of state for a gas.
5) Give an account of Maxwell's distribution of molecular velocities of gases.
6) Give the shapes of XeF_2 and XeF_4 based on the concept of hybridization and VSEPR theory.
7) Draw the molecular orbital energy level diagram for CO molecule, show the filling up of electrons. Write molecular orbital configuration and calculate bond order and explain magnetic property.
8) Give an elementary account of valence bond theory.
9) Explain different types of bond cleavages with suitable examples and add an account of intermediates formed during cleavage.
10) Explain the addition reaction of singlet and triplet carbenes.
11) Explain the mechanism of addition of Hydrogen bromide to 1,3-Butadiene.
12) Distinguish between - 1) Absolute error and relative error
    2) Precission and Accuracy
13) Explain the principle and applications of crystallization as purification technique.
14) Explain the principle and application of HPLC and gas chromatography.

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(2014 Batch Onwards)

G 503.1 Reg. No. : | | | | | | |

St. Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

MATHEMATICS

CALCULUS

Time: 3 Hours **Max. Marks: 100**

Note: Answer all parts

PART – A

Answer any TEN of the following. **(10×2½=25)**

1. Given $f(x) = x^3 + x^2 - x + 1$, find the absolute extrema of f on $\left[-2, \frac{1}{2}\right]$.
2. Find the horizontal and vertical asymptotes of the graph of the function $(x) = \frac{4x^2}{x^2-9}$
3. State the Rolle's theorem. Hence find the values of c in $\left(\frac{-3}{2}, \frac{3}{2}\right)$, where $f(x) = 4x^3 - 9x$.
4. Find $D_x \int_2^x \frac{dt}{t^4+4}$.
5. Compute an approximate value of $\int_{\pi/2}^{3\pi/2} \frac{sinx}{x} dx$ by using the trapezoidal rule with $n = 4$.
6. Find the volume of the solid generated by revolving about the $x-axis$ the region bounded by the parabola $y = x^2 + 1$ and the line $y = x + 3$.
7. Find the length of the arc of the curve $y = x^{2/3}$ from the point $(1,1)$ to $(8,4)$.
8. Suppose that y is a continuous function of t with $y \geq 0 \ \forall t \geq 0$. Furthermore, $\frac{dy}{dt} = ky$ where k is a constant and $y = y_0$ when $t = 0$. Prove that $y = y_0 e^{kt}$.
9. Express $coth^{-1}(-2)$ in terms of natural logarithms.
10. Evaluate $\int cos4x.cos3x\, dx$.
11. Find a polar equation of a graph whose Cartesian equation is $y^2 = 4(x + 1)$.
12. Find the area of the region enclosed by the graph of the equation $r = a(1 - cos\theta)$.
13. Find the co-ordinates of the focus, vertex and an equation of the directrix of the parabola $x^2 + 6x + 4y + 8 = 0$.
14. Find the equation of ellipse having foci at $(2,3)$and $(2,-7)$ and the length of the semi minor axis is two-thirds of the length of the semi major axis.
15. Remove the xy term from the equation $4xy + 3x^2 = 4$ by a rotation of axis.

PART – B

UNIT - I

Answer any THREE of the following. **(3×5=15)**

1. Find the asymptotes of the graph of the function $f(x) = \frac{x^2+3}{x-1}$.

Contd...2

2. If $f(x) = 5x^{2/3} - 5x^{5/3}$ find the point of inflection of f and concavity of f. Draw a sketch of the graph.
3. Draw the sketch of the graph $f(x) = \frac{x^3}{x^2-1}$.
4. State and prove second fundamental theorem of calculus.
5. Evaluate $\int_{-2}^{0} 3x\sqrt{4-x^2}\,dx$.

UNIT – II **(3×5=15)**

Answer any THREE of the following.

1. Using Trapezoidal rule, find an approximate value of $\int_0^2 \frac{dx}{\sqrt{1+x^2}}$ with $n = 8$.
2. Find an approximate value of $\int_0^1 \frac{dx}{x^2+x+1}$ by using Simpson's rule with $n = 6$.
3. Find the volume of the solid generated by revolving about the line $y = -3$ for region bounded by the two parabolas $y = x^2$ and $y = 1 + x - x^2$.
4. Find the volume of sphere generated by revolving about a diameter for region enclosed by the circle $x^2 + y^2 = r^2$.
5. Find the length of the arc of the curve $6xy = y^4 + 3$ from the point where $y = 1$ to the point where $y = 2$.

UNIT – III **(3×5=15)**

Answer any THREE of the following.

1. The rate of decay of radium is proportional to the amount present at any time. If 60 mg of radium are present now and its half-life is 1690 years, how much radium will be present 100 years from now?
2. Bacteria grown in a certain culture increase at a rate proportional to the number present. If 1000 bacteria are present initially and the number doubles in 30 min, how many bacteria will these be in 2 hours.
3. Evaluate $\int cos^4 x\,dx$.
4. Evaluate $\int cosec^6 x\,dx$.
5. Evaluate $\int sin^3 x\, cos^4 x\,dx$.

UNIT – IV

Answer any THREE of the following. **(3×5=15)**

1. Draw the sketch of the graph of the equation $r = 3 + 2\,sin\theta$.
2. Draw a sketch of the graph of the equation $r = 4\cos 2\theta$.
3. Draw the sketch of the graph of the equation $r = 2sin2\theta$.
4. Find the area of the region enclosed by one loop of the graph of the equation $r = a(1 - 2cos\theta)$.
5. Find the area of the region enclosed by the graph of the equation $r = 3cos\theta$.

Contd...3

UNIT – V

Answer any THREE of the following. (3×5=15)

1. If (x,y) represents a point P with respect to a given set of axes and $(\bar{x},\bar{y})$ is a representation of P after the axes and then prove that

   $x = \bar{x}cos\alpha - \bar{y}sin\alpha$

   $y = \bar{x}sin\alpha + \bar{y}cos\alpha$

2. Remove the xy term in $6x^2 + 20\sqrt{3}xy + 26y^2 - 324 = 0$. Sketch the graph of the equation.

3. Simplify the equation $19x^2 + 6xy + 11y^2 - 26x + 38y + 31 = 0$ by rotation and translation of axis. Draw a sketch of the graph of the equation.
4. Sketch the graph of the equation $6x^2 + 9y^2 - 24x - 54y + 51 = 0$.
5. Derive the usual form of equation of hyperbola.

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(2019 Batch onwards)

G 504.1 Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
October– 2019
ELECTRONICS
Fundamentals of Analog and Digital Electronics

Time: 3 Hours **Max. Marks: 100**

Note: This question paper consists of three sections. Section – A, Section – B and Section – C. Answer all sections.

SECTION – A

1. Choose the correct answer from the choices given at the end of each question and write the correct answer. **(12x1=12)**

(i) When the distance between the plates of capacitor is doubled, it capacitance _____

a) becomes half b) becomes ¼th c) remains same d) becomes double

(ii) h –parameter h_{21} is given by _____

a) $\frac{v_1}{i_1}$ b) $\frac{i_2}{v_2}$ c) $\frac{v_2}{v_1}$ d) $\frac{i_2}{i_1}$

(iii) Thevenin's equivalent circuit of a network consists of a _____ source in _____ with it

a)voltage, shunt b) current, shunt c) current, series d) voltage, series

(iv) The forward resistance of an ideal diode is _____

a)zero b) infinite c) IMΩ d) 10Ω

(v) The output frequency of a full wave rectifier is

a) f_{in} b) $2\,f_{in}$ c) $\frac{f_{in}}{2}$ d) $4\,f_{in}$

(vi) In a pnp transistor, _____ is true.

a) $I_C = I_E - I_B$ b) $I_E = I_C - I_B$ c) $I_E = I_C - I_B$ d) $I_C = I_E + I_B$

(vii) The output of an RC Integrator with a square wave input is ____

a) spike wave b) sine wave c) cosine wave d) triangular wave

(viii) The internal resistance of an ammeter is _____

a) zero b) infinity c) very high d) very low

(ix) The phase difference between the current through and voltage across a pure resistor is _____

a) 90° b) 180° c) 0° d) 270°

(x) A four variable K-map contains _____cells

a) 4 b) 8 c) 16 d) 32

(xi) _____ is a weighted code

a) Excess -3 b) Gray code c) NBCD code d) ASCII

(xii) When a 1 is added to 1, the sum produced is _____

a) 1 b) 0 c) 10 d) 11

Contd....2

G 504.1

(10x1=10)

2. Answer any TEN of the following:

i) Mention the classification of inductors.

ii) State Kirchhoff's current law.

iii) Mention any one application of a transformer.

iv) What is a voltage multiplier?

v) In which region of the characteristics is a transistor operated when used as a switch?

vi) Write the circuit symbol of a Varactor diode.

vii) Calculate the 2's complement of $(1111)_2$.

viii) Define a 'pair' in a K-map.

ix) Write the logic circuit symbol of 2 input NAND gate.

x) Give the relation between band width and quality factor of a series resonant circuit.

xi) Give the equation for the phase difference between current and voltage in an RL circuit.

xii) Why is the cutoff frequency also called half power frequency.

(10x2=20)

3. Answer any TEN of the following:

i) Explain the principle of operation of a transformer.

ii) Explain a wire wound resistor.

iii) Draw the forward and reverse V-I characteristics of an ideal diode.

iv) 98% of electrons emitted by the emitter reach the collector of a transistor. Calculate α_{dc} and β_{dc}.

v) Draw the circuit diagram of a RC differentiator.

vi) Draw the circuit diagram of a series LCR circuit and give the expression for its resonant frequency.

vii) Define the h – parameters - h_{22} and h_{12}. Give the expressions for both.

viii) Calculate the lower cut off frequency of a high pass filter with R=10kΩ and $C = 0.01\mu F$.

ix) Perform $(1011)_2 \times (101.10)_2$.

x) With example explain duality principle in Boolean algebra.

xi) Realize Y=(A+$\bar{B}$+C). ($\bar{A}$+B+c). (A+B+$\bar{C}$) using only NAND gates.

xii) Assuming the expressions for I_{dc} and I_{rms}, show that maximum efficiency of a bridge rectifier is 81.2%.

Section -B

4. **Answer any SEVEN questions.** (7x4=28)

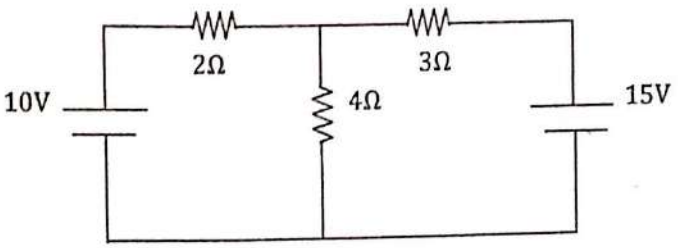
i) Write note on

a) metal film resistor and

b) electrolytic capacitor

Contd....3

ii) Using Kirchhoff's laws, calculate the current through 4Ω in the following circuit.



iii) With necessary diagrams explain the action of a diode under forward bias.

iv) With circuit diagrams explain the working of a half wave rectifier.

v) Define the current gains in common base and common emitter configurations of a transistor. Derive the relationships between them.

vi) With diagram derive the expression for instantaneous current through an RL circuit, when energized by ac signal. Also give the expression for impedance offered by the RL circuit.

vii) Explain how voltage and frequency of ac signal are measured using CRO?

viii) Perform a) $(1010)_2 - (1100)_2$ using 2's complement method. and
b) $(1110)_2 \div (11)_2$

ix) State and prove De-morgan's theorems.

x) Show that excess -3 code is self complementing.

Section - C

Answer any THREE full questions. (10x3=30)

5. a) State and prove maximum power transfer theorem. (6)

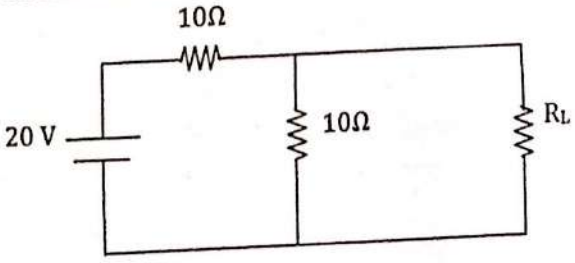
b) Simplify the Boolean function $Y(A,B,C,D) = \Sigma(0,1,2,8,9,10,11,15) + \Sigma_{\Phi}(3,7,14)$ using K-map. (4)

6. a) Derive the expression for current, impedance and phase angle in a series RC circuit. (6)

b) Explain the action of transistor as a switch. (4)

7. a) With circuit diagram and frequency response explain a RC high pass filter. Derive the expression for output voltage and cut off frequency. (6)

b) Obtain the Thevenin's equivalent of the following circuit. (4)



8. a) Obtain the small signal h-parameter model of transistor in CE configuration. (6)

b) Realize AND and OR gates using only NAND gates. (4)

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(2019 Batch Onwards)

G 505.1 Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

COMPUTER SCIENCE

PROBLEM SOLVING USING C

Time: 3 Hours. **Max Marks: 100**

PART –A

1. **Answer any TEN of the following.** **(10X2=20)**

a) Name any four Keywords in C.

b) What is initialization? How do you initialize value of an integer as 75?

c) What is the difference between = and == operators?

d) What is entry-controlled loop? Give an example.

e) In what way does an array differ from an ordinary variable?

f) Why and when do we use #include directive?

g) What is a function? What are the uses of it?

h) What are actual and formal parameters?

i) How is a file declared? Give an example.

j) What is a structure? Give examples.

k) Define pointer. How do we assign an address to a pointer variable?

l) List any two modes of opening a file. Give example.

PART –B

Answer any ONE FULL question from each unit. **(4x20=80)**

UNIT – I

2. a) Explain the basic structure of a C program with an example. **(8)**

b) What are the different bitwise operators available in C? Explain. **(6)**

c) Explain formatted input statement with syntax and example. **(6)**

3. a) Explain the basic data types supported in 'C' language with its storage size. **(8)**

b) Explain the following mathematical functions with an example.

i) floor ii) sqrt iii) pow **(6)**

c) What is the purpose of 'printf' and 'scanf' functions? Explain with syntax and example. **(6)**

UNIT - II

4. a) Explain simple-if and if-else statements with syntax and examples. **(8)**

b) What is an array? How do you initialize one dimentional array? Explain with syntax and example. **(6)**

c) What is the purpose of do-while statement? How does it differ from the while statement? **(6)**

Contd...2

5. a) Explain the working of 'switch' statement with syntax and example. (8)

b) Write a program to sort 'n' numbers in ascending order. (6)

c) Write a note on – i) goto statement ii) for loop (6)

UNIT – III

6. a) Explain the different storage classes in C. (8)

b) What is recursive function? Explain with an example. (6)

c) Explain any two categories of user defined functions with examples. (6)

7. a) Explain any 4 string functions with syntax and example. (8)

b) Explain the general syntax of a user-defined function. Give an example. (6)

c) Explain passing arrays to a function with suitable example. (6)

UNIT – IV

8. a) Write a note on - i) Nested structures
ii) Array of structures (8)

b) With an example, explain call by value and call by reference. (6)

c) What is union? How it differs from a structure? Explain with an example. (6)

9. a) Compare: i) getc() and getw()
ii) fscanf() and fprintf()
iii) putc() and putchar()
iv) fopen() and fclose() (8)

b) With syntax and example, explain how structure variables are declared and members are accessed. (6)

c) Write a note on pointers. (6)

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(2016 Batch onwards)

G 506.1 Reg. No: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

STATISTICS

Descriptive Statistics and Probability Theory

Time: 3 Hours **Max. Marks: 100**

Note: Answer all parts

PART – A

1. **Answer any TWELVE of the following.** **(2x12=24)**

a) Write down the normal equations for fitting straight line.

b) Explain the principle of least square in curve fitting.

c) What is rank correlation coefficient? What are its limits?

d) What are the advantages of scatter diagram?

e) What is regression?

f) What is the relation between the regression coefficients and the correlation coefficient?

g) Show that if one of the regression coefficients is greater than unity then the other must be less than unity.

h) Mention any two properties of regression lines.

i) What is elasticity of supply?

j) State the law of demand.

k) Define random variable and its probability function.

l) What are the properties of p.m.f.?

m) State the properties of the distribution function of a random variable.

n) Define mathematical expectation of a continuous random variable.

o) Examine whether the following is a p.d.f. $f(x) = \frac{1}{\theta} e^{-x/\theta}$; $x \geq 0$, $\theta \geq 0$.

PART – B

Answer any SIX of the following. **(6x6=36)**

2. Derive the normal equations for fitting an equation $y = ax^2 + bx + c$.

3. Derive an expression for Spearman's rank correlation coefficient when there are no ties.

4. Show that Karl Pearson's coefficient of correlation is independent of origin and scale.

5. For two variables X and Y with same mean the two regression equations are $Y = aX + b$ and $X = \alpha Y + \beta$. Show that $\frac{b}{\beta} = \frac{1-a}{1-\alpha}$.

6. With usual notations prove that $-1 \leq r \leq 1$.

7. Describe the concept of demand elasticity.

Contd...2

G 506.1

8. State and prove addition theorem of probability for any two events.
9. Define conditional probability. Show that it satisfies axioms of probability.
10. State and prove multiplication theorem of expectation for two continuous random variables.

PART – C **(10x4=40)**

Answer any FOUR of the following.

11. a) The variables X and Y are connected by the equation $ax + by + c = 0$. Show that correlation between them is -1 if the sign of a & b are alike and +1 if the sign are different.

    b) Prove that $V(aX \pm bY) = a^2 V(X) + b^2 V(Y) \pm 2ab\ cov(X, Y)$. Hence deduce that $V(X \pm Y) = V(X) + V(Y)$ if X and Y are independent. **(5+5)**

12. a) Derive the limits for rank correlation coefficients when 'n' is even.

    b) Prove that correlation coefficient between X and Y is positive or negative according to $\sigma_{X+Y} > \sigma_{X-Y}$ and $\sigma_{X+Y} < \sigma_{X-Y}$. **(5+5)**

13. a) Derive an expression for regression equation of Y on X.

    b) S.T. the regression coefficients are independent of origin but not of scale. **(6+4)**

14. Derive the equation to the plane of regression of X_1 on X_2 and X_3. **(10)**

15. a) State and prove addition theorem of expectation for two continuous random variables.

    b) If $f(X, Y) = x + y,\ 0 \le X \le 1,\ 0 \le Y \le 1$, verify whether X and Y are independent. **(5+5)**

16. a) State and prove Baye's theorem of probability.

    b) In a bivariate distribution, define the joint, marginal and conditional probability density functions and probability mass functions. **(7+3)**

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G 507.1

(2014 batch onwards)

Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

BOTANY

Biodiversity - I

Time: 3 hrs. **Max Marks: 100**

Note: i) Answer all the sections
ii) Draw the diagrams wherever necessary

SECTION – A

I. Answer any TEN of the following in a few sentences each. (10×2=20)

1. What are Cryptogams in virus? Give an example.
2. Mention the methods of conservation of Biodiversity.
3. What are cryptogram in plants?
4. Mention any two significance of actinomycetes.
5. What is an endospore? What is its significance?
6. Write any two differences between Gram positive and Gram negative bacteria.
7. What are nannospores? Give an example.
8. Give any two salient features of class Rhodophyceae.
9. What is an evection? Name the alga where it is seen?
10. What are photo synthetic assimilators? What is their significance?
11. Give any two economic uses of diatomite.
12. What is palmella stage? Where is it seen?

SECTION – B

II. Answer any SIX of the following: (6 x 5=30)

1. What is transduction? Explain With labeled sketches.
2. Explain the structure of T4 bacteriophage.
3. Explain the methods of transmission of viral diseases.
4. Write a note on the beneficial activities of bacteria.
5. Write the characteristic features of chlorophyceae.
6. Write a note on cystocarp.
7. Explain the structure of female conceptacle in *Sargassum* with a diagram.
8. Describe the cell structure of a Pennate diatom.

Contd....2

SECTION – C

III. Answer any FIVE of the following: **(5 x 10=50)**

1. Classify the living organisms as Five kingdom system and give distinguishing characters of each with examples.
2. Give an account on any two plant viral diseases and their control measures.
3. Write an explanatory note on Mycoplasma.
4. What are chemotrophic bacteria? Explain the types with examples.
5. Give an account on sexual reproduction in *Volvox*.
6. Explain the thallus organization in any five cyanobacteria.
7. Explain the sexual reproduction in nannandrous type of *Oedogonium* species.
8. Explain the structure of sex organs in *Chara*.

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(2014 Batch Onwards)

G 508.1

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

ZOOLOGY

Animal Diversity (Non-Chordata)

Time: 3 Hours. **Max Marks: 100**

Note: i) Answer any TEN questions from PART A and ONE FULL question from each unit of PART B.
ii) Draw diagrams wherever necessary.

PART –A

I Answer any TEN of the following. **(10X2=20)**

a) Name six categories of Linnaen Hierarchy.

b) Write a note on scleroblasts.

c) What is spongocoel? Mention its function.

d) What is corallum? Where do you find it?

e) Define parasite. Give one example.

f) What is ascariasis?

g) To which class does earthworm belong? Mention its generic name.

h) What is petasma? Mention its function.

i) Draw a neat labeled diagram of *Peripatus*.

j) Write any two distinguishing features of class Scaphopoda with any two examples.

k) What is ambularcal system?

l) Name any two representatives of subphylum Hemichordata.

PART – B

Select ONE full question from each unit.

Unit I

II a) Give an account of histology of sponges. **(10)**

b) Describe the morphology of *Elphidium*. **(5)**

c) Comment on species and genetic biodiversity. **(5)**

OR

III a) Give an account of the general characters of the phylum protozoa with any two examples. **(10)**

b) Give an account of ascon type of canal system in sponges. **(5)**

c) What is ecosystem biodiversity? Explain its importance. **(5)**

Unit II

IV a) Give an account of the general characters of the phylum Platyhelminthes with any two examples. **(10)**

b) Write a note on external morphology of *Hydra*. **(5)**

c) Explain the parasitic adaptation of *Wuchereria bancrofti*. **(5)**

OR

Contd...2

G 508.1

V a) What is polymorphism? Explain the phenomenon hydrozoa with reference to *Physalia*. (10)

b) Describe the external morphology of *Fasciola hepatica*. (5)

c) Give an account of parasitic adaptation of *Microfilaria*. (5)

Unit III

VI a) With a neat labeled diagram describe the external features of *Pheretima*. (10)

b) Describe the thoracic appendages of prawn. (5)

c) List any eight general characters of phylum Onychophora. (5)

OR

VII a) Give an account of mouth parts of insects. (10)

b) With the distinctive characters of class Hirudinea with an example. (5)

c) Write the general characters of class Crustacea with two examples. (5)

Unit IV

VIII a) Classify phylum Echinodermata upto classes giving the distinctive characters and two examples for each class. (10)

b) Comment on economic importance of molluscs. (5)

c) Explain the structure of tornaria larva with the neat labeled diagram. (5)

OR

IX a) Classify phylum mollusca upto classes giving three diagnostic characters with examples. (10)

b) With a neat labeled diagram describe the bipinnaria larva. (5)

c) Explain the structure of *Balanoglossus*. (5)

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G 509.1

(2019 Batch Onwards)

Reg. No.: | | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

MICROBIOLOGY

Fundamentals of Microbiology

Time: 3 Hours. **Max Marks: 100**

Instructions: Answer PART A AND B AND C
Draw Diagrams wherever necessary.

PART – A

1. **Define/Answer any TEN of the following:** **(2x10=20)**

a) Saline
b) Atomic Force Microscope
c) Capsule Staining
d) Archae Bacteria
e) Obligate Anaerobes
f) Antiseptics
g) Chemotrophs
h) Reactive Oxygen Species
i) CFU
j) Holding Time
k) Enrichment Media
l) Acidophiles

PART – B

Answer 'a' or 'b' and 'c' is compulsory from each unit. **(15x4=60)**

UNIT -I

2. a) Explain in detail the parts and working principle of SEM. **(9)**

OR

b) Explain the contribution of Louis Pasteur.

c) Discuss on the principle and procedure of Gram staining. **(6)**

UNIT –II

3. a) Write a note on domain bacteria. **(9)**

OR

b) Discuss about phenetic and genotypic classification of microbes.

c) Write a short note on numerical taxonomy. **(6)**

UNIT –III

4. a) Explain the process of dry heat sterilization. **(9)**

OR

b) Define cardinal temperature. Discuss the classification of micro organisms based on temperature.

c) Write a note on group translocation. **(6)**

UNIT –IV

5. a) Explain about the growth curve of bacteria. **(9)**

OR

b) What is anaerobic media? Explain the methods used to cultivate anaerobic bacteria.

c) Write a short note on standard plate count. **(6)**

PART – C

Answer any FOUR of the following. **(5x4=20)**

6. a) Iodine
b) Chemostat
c) Sub Culturing
d) Phylogeny
e) Colony Morphology
f) Resolving Power

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(2019 batch onwards)

22.

G 510.1

Reg. No: | | | | | | |

St. Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

October - 2019

BIOCHEMISTRY

Biomolecules

Time: 3 Hours Max. Marks: 100

Instructions: 1. Write the question and subdivision clearly.
2. Write equations & diagrams wherever necessary.
3. Answer PART-A in the first two pages of the answer book.

PART – A

Answer any TEN of the following. (10x2=20)

1. a) Write the structure of lactose.
   b) What are epimers? Give one example for C_2 – epimer.
   c) Give the reaction of glucose with HNO_3.
   d) Mention any two importances of cerebrosides.
   e) Define iodine value. Give its significance.
   f) What is PUFA? Give one example.
   g) Write the structure of valine and cysteine.
   h) What is renaturation of proteins? Give one example.
   i) Give the importance of valinomycin.
   j) What are nucleosides? Give one example.
   k) Write the structure of GTP.
   l) Give any two functions of mRNA.

PART – B

Answer any SIX of the following. (6x5=30)

2. Explain the structure and importance of starch.
3. Write a note on osazone test.
4. Explain the biological role of prostaglandins.
5. Write a note on rancidity of fats.
6. Explain α– helix.
7. Give the classification of proteins based on function.
8. Write a note on phosphodiester bond.
9. Explain the effect of uv light on nucleic acids.

Contd...2

on any two applications.

5. Explain the uses of Isotopes in biology.
6. Explain sampling techniques in brief.

Contd...2

G 510.1

PART – C

(5x10=50)

Answer any FIVE of the following.

10. Give the classification of carbohydrates with example.
11. Explain :
    i. Elucidation of open chain structure of glucose
    ii. Mutarotation
12. Give an account on classification of lipids with example.
13. Explain the biological importance and structure of Glutathione.
14. Write a note on
    i. Conjugated proteins
    ii. Peptide bond
15. Explain
    i. Effect of acid and alkali on DNA
    ii. Biological importance of DNA
16. Give an account on structure and importance of glycerophospholipids.

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(2014 Batch Onwards)

G 511.1 Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B. Sc. Semester I - Degree Examination

October - 2019

BIOTECHNOLOGY

BIOPHYSICS AND BIOSTATISTICS

Time: 3 Hours **Max. Marks: 100**

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

PART – A

I. Answer any TEN of the following: **(10×2=20)**

a) Define "Biophysics". Mention its any one application in biology.

b) What are isotopes? Give any two examples.

c) Mention any one required quality of separating medium used in TLC.

d) Write any two applications of GM counter.

e) Define Classification of data? Mention its importance (any one)

f) Following are the percent protein content of 8 legume seeds. Find the median protein percent.

% Protein content : 46, 83, 13, 04, 15, 28, 30, 34

g) What is the probability of getting Head in tossing a coin?

h) Define membrane potential.

i) Define Swedberg law.

j) Define R_f value. Mention its any one importance.

k) Define "Resolving Power" (RP). Write the formula used to calculate R.P

l) Calculate the pH of a 2L solution containing 10ml of 5M acetic acid and 10ml of 1M sodium acetate. (Given log 0.2 =0.7)

PART – B

Answer any SIX of the following: **(6x5=30)**

2. Write a note on phase contrast Microscope.

3. Write the principle and application of gas chromatography.

4. Describe the principle of Agarose Gel Electrophoresis and add a note on any two applications.

5. Explain the uses of isotopes in biology.

6. Explain sampling techniques in brief.

Contd...2

G 511.1

7. Calculate mean deviation from mean for following date and calculate coefficient of mean deviation

   Height of plants(cm) : 140, 147, 143, 146, 144

8. Describe principle of autoradiography and a note on specimen preparation for autoradiography.

9. Explain principle and applications of IR Spectroscopy.

PART – C

(5x10=50)

Answer any FIVE of the following:

10. Discuss the principle, instrumentation and applications of NMR Spectroscopy.

11. Write a detailed account on GC-MS and its application.

12. Discuss the polyacrylamide gel electrophoresis and its applications.

13. For the following distribution of diastolic blood pressure of men, find the standard deviation and variance.

Pressure (mm)	78-80	80-82	82-84	84-86	86-88	88-90
No of men	3	15	26	23	9	4

14. In order to find the average annual yield of coconut per tree in a large coconut plantation,1470 trees were randomly chosen and yield were recorded as follows. Find mean yield per tree.

No of Coconuts	120	130	140	150	160	170	180	190	200
No of Trees	15	78	273	369	341	207	133	43	11

15. Discuss the principle and applications of SEM.

16. Explain Scintillation counter in detail.

17. Describe the structure, properties and functions of cell membrane.

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(2019 batch onwards)

G 110.1/G 512.1 Reg. No. | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc Semester I – Degree Examination
October - 2019
COMPUTER ANIMATION
INTRODUCTION TO COMPUTER ANIMATION AND ANIMATION GRAPHICS

Time: 3 hrs. **Max Marks: 100**

SECTION - A

Answer any TEN of the following: **(2×10=20)**

1. a) Name the different types of selection options.
   b) What is the use of Shift+F6 button in Photoshop?
   c) What is the use of timeline in Photoshop?
   d) What is the use of paragraph text?
   e) Name any four character formatting options.
   f) What is the use of smudge tool?
   g) What is the use of property bar?
   h) What is the difference between lasso tool and polygonal lasso tool?
   i) Name any four layer styles.
   j) What is the use of red eye tool?
   k) What is the color mode of Photoshop and CorelDraw?
   l) How to create the customized brush tool?

SECTION – B

Answer any FOUR of the following: **(5 × 4 = 20)**

2. How to use mask type tool? Explain with example.
3. Explain the procedure of creating eye blinking animation.
4. How to create the gif images using Photoshop frames?
5. Write a note on adobe Photoshop.
6. How to add text on path in CorelDraw?

SECTION – C

Answer any TWO of the following: **(10×2=20)**

7. What are the features of Photoshop?
8. Explain briefly about graphic design.
9. Design CorelDraw page layout and name the bars.

SECTION – D

Answer any TWO of the following: **(20×2=40)**

10. Design Photoshop layout and explain the property bar & layers briefly.
11. What is the difference between vector and bitmap graphics?
12. Explain any 20 tools of CorelDraw.

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(2019 Batch Onwards)

G 513.1 Reg. No. : | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.Sc. - SEMESTER I – Degree Examination
October - 2019
ECONOMICS
PRINCIPLES OF ECONOMICS - I

Time: 3 hrs. **Max Marks: 100**

PART - A

Answer any FOUR of the following questions in about 10 sentences each. **(4×5=20)**

1. Write a note on 'Production possibility curve'.
2. What are the determinants of demand?
3. Give the meaning of Budget Line.
4. What is a production function?
5. Write a note on opportunity cost.
6. A company has the following Total Revenue Function
   $R = 24x - 3x^2$
   a) What equation represents the Average Revenue function?
   b) What equation represents the Marginal Revenue function?
   c) At what level of output the revenue of the company is maximum?

PART – B

Answer any FOUR of the following questions in about 20 sentences each. **(4×10=40)**

7. Explain the scarcity definition of economics. What are its criticisms?
8. Suppose the demand for mangoes is given by the following equation:
   $Qd = 4000 - 100P + 500Pa$
   Where Pa= Price of Apples.
   a) What happens to the demand for mangoes when price of apple goes up?
   b) Graph the demand curve for mangoes when $Pa = 2$.
   c) Identify the equilibrium $Qs = -3000 + 150P$ and draw the graph.
   d) Find out price elasticity of demand.
9. Explain the properties of indifference curves.
10. Explain the meaning of economies and diseconomies of scale.
11. Analyse the cost-output relationship in the short-run.
12. What is supply function? What are the determinants of supply?

PART – C

Answer any TWO of the following questions in about 50 to 60 sentences each. **(2×20=40)**

13. Define micro economics. Explain its scope, uses and limitations.
14. State and explain the law of demand. Why does the demand curve slope downwards?
15. Explain the concept of consumer surplus with suitable example. What are its uses?
16. a) Briefly explain the cost concepts.
    b) If $TC = 2x^3 - 3x^2 - 12x$
       i) What is the marginal cost?
       ii) What is the average cost?
       iii) Determine the level of output at which average cost is the minimum.

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G 702.1

(2019 batch onwards)

Reg. No.

St Aloysius College (Autonomous)
Mangaluru
B.A./ B.Sc./B.C.A. Semester I – Degree Examination
October – 2019
FOUNDATION COURSE IN ENVIRONMENTAL SCIENCE AND VALUE EDUCATION

Time: 2 hrs. **Max Marks: 50**

PART – A
ENVIRONMENTAL SCIENCE

I. Answer any TEN of the following Questions: **(10x2=20)**

1. Define Ecology.
   ಇಕಾಲಜಿ ಎಂದರೇನು?
2. Name any two biogeographic zones in India.
   ಭಾರತದ ಯಾವುದೇ ಎರಡು ಜೈವಿಕ ಭೌಗೋಳಿಕ ವಲಯಗಳನ್ನು ಹೆಸರಿಸಿ.
3. Define hotspot.
   ಬಿಸಿತಾಣ ವ್ಯಾಖ್ಯಾನಿಸಿ.
4. What is a pollutant?
   ಮಾಲಿನ್ಯಕಾರಕ ಎಂದರೇನು?
5. Name any four methods of soil conservation.
   ಮಣ್ಣಿನ ಸಂರಕ್ಷಣೆಯ ನಾಲ್ಕು ವಿಧಾನಗಳನ್ನು ಹೆಸರಿಸಿ.
6. What is ozone depletion?
   ಓಝೋನ್ ಸವಕಳಿ ಎಂದರೇನು?
7. Expand IUCN.
   ಐ.ಯು.ಸಿ.ಎನ್ ವಿಸ್ತರಿಸಿ.
8. Mention the components of environment.
   ಪರಿಸರದ ಘಟಕಗಳನ್ನು ತಿಳಿಸಿ.
9. Define endemic species.
   ಸ್ಥಳೀಯ ಪ್ರಭೇದ ಎಂದರೇನು?
10. What is municipal solid waste?
    ಪುರಸಭೆಯ ಘನತ್ಯಾಜ್ಯ ಎಂದರೇನು?
11. What is eutrophication?
    ಯುಟ್ರೊಫಿಕೇಶನ್ ಎಂದರೇನು?
12. Define food web.
    ಆಹಾರಜಾಲ ಎಂದರೇನು?

II. Answer any ONE of the following questions. **(1x5=5)**

13. What are the methods suggested for water conservation.
    ನೀರಿನ ವಿವಿಧ ಸಂರಕ್ಷಣಾ ಕ್ರಮಗಳು ಯಾವುವು?
14. Explain Environment Protection Act, 1986 in brief.
    ಪರಿಸರ ಸಂರಕ್ಷಣಾ ಕಾಯ್ದೆ, ೧೯೮೬ ಅನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.

III. Answer any ONE of the following questions. **(10x1=10)**

15. What is an ecosystem? Explain the pond ecosystem.
    ಪರಿಸರ ವ್ಯವಸ್ಥೆ ಎಂದರೇನು? ಕೆರೆ ಪರಿಸರ ವ್ಯವಸ್ಥೆಯನ್ನು ವಿವರಿಸಿ.
16. What are the values of biodiversity?
    ಜೀವವೈವಿಧ್ಯತೆಯ ಮೌಲ್ಯಗಳು ಯಾವುವು?

Contd...2

G 702.1

PART - B

VALUE EDUCATION

I. Answer any ONE of the following in not less than a page. (5x1=5)

17. Explain the vision and mission of St Aloysius College.

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜಿನ ದೃಷ್ಟಿಯ ಮತ್ತು ಗುರಿಯನ್ನು ವಿವರಿಸಿ.

18. Write a note on thought power.

ಚಿಂತನಾ ಶಕ್ತಿಯ ಬಗ್ಗೆ ಒಂದು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

II. Answer any ONE of the following in not less than two pages. (10x1=10)

19. Explain SWOC Analysis.

ಸ್ವಾಟ್ ವಿಶ್ಲೇಷಣೆಯನ್ನು ವಿವರಿಸಿ.

20. "Good decision making is an essential skill for success in general and an effective leadership skill in particular"- Explain.

"ಸಾಮಾನ್ಯವಾಗಿ ಉತ್ತಮ ನಿರ್ಧಾರ ತೆಗೆದು ಕೊಳ್ಳುವುದು ಯಶಸ್ಸಿಗೆ ಅಗತ್ಯ ಕೌಶಲ್ಯ ಮಾಗೂ ವಿಶೇಷವಾಗಿ ಮೇಳುಪ್ರವಾದರೆ ಪರಿಣಾಮಕಾರಿ ನಾಯಕತ್ವ"- ವಿವರಿಸಿ.

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