(2016 Batch onwards)

G 135.4/335.4/535.4   Reg. No: ☐☐☐☐☐☐

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

April – 2018

ENGLISH

Time: 3 Hours   Max. Marks: 100

UNIT – I (PROSE)

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

1. What does the author mean by enjoying herself in the lesson "The key to Courage'?

2. Give any one reason to justify Kalam's idea that India is a developed nation.

3. Why did the narrator go to the mosque everyday in the short story "A Handful of Dates"?

4. Chess originated in _____ (Persia, Spain, Europe, none of these).

5. A good story teller is able to repeat the story over and over again and still make the story _____ to the listeners.
   (relevant, fresh, intense, emotional, moral)

B. Answer any FOUR of the following questions in 100-150 words each:

(4x5=20)

1. According to the author fear is a valuable asset. Explain.

2. How does Kalam contrast the media in Israel and in India?

3. Why did the grandfather dislike Masood? What was his opinion of him?

4. What decides the outcome of a game of chess?

5. Write a short note on stories told in Gikiyu with human beings as main characters.

UNIT – II (POETRY)

II. A. Answer any TWO of the following in about 100 - 150 words each:

(2x5=10)

1. How does the poet provide a twist to a mundane situation in the poem "The Telephone Call'?

2. Analyse the theme of the poem "Goodbye Party for Miss Pushpa T.S.

3. How does the poem "Digging" address the theme of family heritage?

4. Comment on the collective money madness as described in the poem "Money Madness".

B. Answer any TWO of the following in 100 - 150 words each:

Annotations. (2x5=10)

1. And if I have no money, they will give me a little bread,
   So I do not die,
   But they will make me eat dirt for it,
   I shall have to eat dirt, I shall have to eat dirt
   If I have no money

2. When old age shall this generation waste,
   Thou shalt remain, in midst of other woes
   Than ours, a friend to man, to whom thou say'st,
   "beauty is truth, truth beauty, ____ that is all
   Ye know on earth, and all ye need to know

3. "I said I just .... I can't believe it!
   They said 'That's what they all say'.
   What else? Go on, tell us about it"
   I said 'I feel the top of my head
   Has floated off, out through the window,
   Revolving like a flying saucer'

4. You are all knowing, friends,
   what sweetness is in Miss Pushpa
   I don't mean only external sweetness
   but internal sweetness.
   Miss Pushpa is smiling and smiling
   even for no reason but simply because
   she is feeling.

UNIT – III (Drama)

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

1. What, according to the mother, has made her daughter Anna strong?
2. According to the stranger, life in the country side is _____ when compared to life in the big town.
   a) Beautiful   b) Boring   c) Busy   d) Easy
3. Why is the stranger travelling round the country side?
4. What plan do Anna and her mother have to dispose of the stranger's body?
5. "From the events in the play, we understand that Anna, the daughter, has no lovers". True or False?

**B. Answer any TWO of the following in about 200 words each:** (10x2=20)

1. The plan to murder the stranger does not work out very effectively. What are the problems that come up and how is it finally executed?
2. The mother and daughter act as typical foils to each other; complementing and contradicting simultaneously. Discuss their characters as women of a kind, separated by an illusion of age.
3. Poverty is a dominant motif in the play Lithuania. How does it contribute to the tragedy?
4. The father is portrayed as rather weak, henpecked and a drunkard. How does the playwright create this impression? Answer with reference to the play.

UNIT – IV (Grammar and Writing Skills)

IV. A. **Add suitable question tags to the following:**   (6x1=6)

1. She rarely goes to the market _____?
2. Your father is a doctor _____?
3. You can't do the sum _____?
4. He has promised to help you _____?
5. They are bathing well _____?
6. Suraj cooks well _____?

B. **Paraphrase the following passage in about 150-200 words:**   (6)

1. Now can still Evening on, and Twilight grey
   Had in her sober livery all things clad.
   Silence accompanied – for beast and bird,
   They to their grassy couch, those to their nests,
   Were slunk all but the wakeful nightingale;
   She all night long her amorous, descant sung
   Silence was pleased. Now glow'd the firmament
   With living sapphires. Hesperus, that led
   The starry host, rode brightest, till the moon.
   Rising in clouded majesty at length.
   Apparent queen, unveil'd her peerless light,
   And o'er the dark her silver mantle threw.
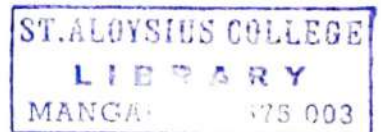
C. **Rearrange the jumbled sentences into a coherent paragraph:**   (6)

It is easy to allow oneself to be carried away by resentment and hate into an act of vengeance but it takes a strong character to restrain those natural passions. Forgiveness may even turn a foe into a friend. The man who forgives an injury proves himself to be the superior of the man who wronged him and puts the wrong-doer to shame. To forgive an injury is often considered a sign of weakness; it is really a sign of strength.

D. **Use the following details to write a cover letter and a Resume.**   (6)

1. Mr Ramesh Kumar wants to apply for a job of a technical assistant in a company manufacturing valves for boilers. The address of the managing director is: The Managing Director, Nandi Valves and Boilers, Borivili, Mumbai.

E. **Write a refutation choosing any ONE of the following topics in about 150 words:**   (6)

1. Teenage is the best age.
2. Honesty is the best policy.
3. Man is the maker of his destiny.

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HINDI

Time: 3 hrs.   Max Marks: 100

I. अ) किसी <u>एक</u> प्रश्न का उत्तर लिखिए :   (1x6=6)

1. एक अच्छे आलेख के गुणों के बारे में विस्तार से लिखिए ।

2. व्यावसायिक पत्र का प्रारूप तैयार करते समय किन्ह-किन्ह अंशों पर ध्यान देना चाहिए । स्पष्ट कीजिए ।

आ) किन्हीं <u>दो</u> प्रश्नों का उत्तर लिखिए :   (2x7=14)

1. 'नियमित रुप से पानी न आने के कारण लोगों को अनेक समस्याओं का सामना करना पड़ रहा है ।' इसकी शिकायत करते हुए मंगलूर जिला आयुक्त के नाम एक शिकायती पत्र लिखिए ।

2. उपकुलपति, कानपुर विश्वविद्यालय की ओर से उसके अधिनस्थ कॉलेजों के प्राचार्यों के नाम अपने अपने कॉलेजों में लघु संशोधन परियोजना में निरत अध्यापकों की सूची माँगते हुए एक परिपत्र लिखिए ।

3. विजया बैंक के प्रधान कार्यालय में अर्थ-लेखक के पद हेतु एक आवेदन पत्र लिखिए ।

II. अ) एक वाक्य में उत्तर लिखिए :   (5x1=5)
1. भाषा नीति संबंधी प्रमुख शिफारिश क्या थी ?
2. संविधान के किस अनुच्छेद के अनुसार सन् 1955 में राजभाषा आयोग की नियुक्ति की गयी ?
3. राष्ट्रपति का आदेश : 27 मई 1952 के मुख्य बिंदु क्या थे ?
4. 'स्वतंत्र देश को अपनी ही भाषा में राजकाज चलाना चाहिए' – यह किसका अभिमत था ?
5. संविधान सभा कब बनी ?

आ) किसी <u>एक</u> प्रश्न का उत्तर लिखिए :   (1x5=5)

1. संसदीय समिति की सिफारिशों के बारे में लिखिए ।

2. राष्ट्रपति का आदेश: 27 अप्रैल 1960 पर प्रकाश डालिए ।
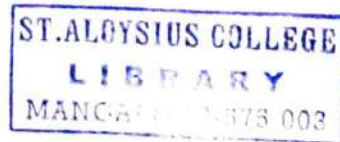
इ) निम्नलिखित अवतरण का पल्लवन कीजिए :   (1x4=4)

"गाँधी टोपी की उमंग और है, गाँधीत्व की गन्ध और ।" – राज़ा राधिकारमण ।

ई) किसी एक विषय पर निबंध लिखिए :   (1x6=6)

    1. भारत में नारी का स्थान   2. कंप्यूटर

III. अ) एक वाक्य में उत्तर लिखिए :   (8x1=8)

1. द्रोणाचार्य का रीडर बनने में किसका बड़ा हाथ था ?

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2. मनुष्य की पशुता कब लुप्त हो जाएगी ?

3. मानव के जीवन में किसका महत्वपूर्ण स्थान है ?

4. अर्जुनदास के मतानुसार विद्या की प्राप्ति कैसे होती है ?

5. वनमानुष का शस्त्र क्या था ?

6. 'गपशप' किस प्रकार की गद्य विधा है ?

7. एकलव्यदास ने आचार्य की रिपोर्ट किससे की ?

8. किससे मनुष्य की बुद्धि और कर्तृत्व – शक्ति का पता चलता है ?

(1x6=6)

आ) किसी एक विषय पर टिप्पणी लिखिए :

1. नाखून का बढ़ना   2. अर्जुनदास

(1x6=6)

इ) किसी एक का संदर्भ सहित व्याख्या कीजिए :

1. "और मेरी लिखी हुई कुंजी तू सिरहाने रखकर क्यों सोता है ?"

2. "खुलते हैं वे उस समय, जब अपने 'टाइम–टेबुल' का बन्धन तोड़ते हैं ।"

(1x10=10)

ई) किसी एक प्रश्न का उत्तर लिखिए :

1. पठित कहानी के आधार पर आचार्य द्रोणाचार्य का चरित्र–चित्रण कीजिए ।

2. 'नाखून क्यों बढ़ते हैं ?' – निबंध का सार लिखिए ।

(8x1=8)

IV. अ) एक वाक्य में उत्तर लिखिए :

1. 'जोर से मार, मोरे राजा बेटा, जोर से, और जोर से – कहकर कौन गिड़गिड़ाती थी ?

2. 'सबिया' किस प्रकार की गद्य विधा है ?

3. लाला सदानंद का मन मयूर क्यों नाचने लगा ?

4. बच्चन के छोटे भाई का नाम क्या था ?

5. सबिया किसके घर में काम करती थी ?

6. पं. शादीराम पत्रिकाओं को रद्दी में क्यों नहीं बेचते थे ?

7. 'सबिया' पाठ के लेखक कौन है ?

8. पंडितों के अनुसार बच्चा अगर मूल नक्षत्र में जन्मा तो क्या होता है ?

आ) किसी एक विषय पर टिप्पणी लिखिए :

(1x6=6)

1. मैकू   2. लछमिनियाँ

इ) किसी एक का संदर्भ सहित व्याख्या कीजिए :

(1x6=6)

1. "एक छोटा-सा कदम इस दिशा में उठाया जा सकता है कि लोग अपने नाम के साथ अपनी जाति का संकेत करना बन्द कर दें ।"

2. "ईश्वर ऐसी सुबुद्धि दे कि तुम मेल से रह सको ।"

ई) किसी एक प्रश्न का उत्तर लिखिए :

1. 'दो ईमानदार व्यक्तियों के चरित्रों का हृदय-स्पर्शी निरूपण प्रस्तुत कहानी 'अलबम' में किया गया है ।' – स्पष्ट कीजिए ।

(1x10=10)

2. 'सबिया' – पाठ का सार लिखिए ।

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ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ) ಮಂಗಳೂರು

ಬಿ.ಎಸ್ಸಿ – ನಾಲ್ಕನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ

ಏಪ್ರಿಲ್ – 2018

ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ – 4

ಸಮಯ : 3.00 ಘಂಟೆ   ಅಂಕಗಳು : 100

I : ಕಾವ್ಯ ಭಾಗ – 1

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   10X2=20

   1. ಕುಂಬಾರ ಗೃಹದಲ್ಲಿ ಗಡಿಗೆಗಳು ತಯಾರಾಗುವ ಕ್ರಮವನ್ನು ಸೃಷ್ಟಿಯ ಪ್ರಕ್ರಿಯೆಗೆ ಹೇಗೆ ಅನ್ವಯಿಸಲಾಗಿದೆ?

   2. ಏಸುವಿನ ಬದುಕಿನ ಕೊನೆಯಭಾಗ 'ಗೋಲ್ಗೊಥಾ'ದಲ್ಲಿ ಹೇಗೆ ಮೂಡಿ ಬಂದಿದೆ? ವಿವರಿಸಿ

   3. 'ಉಷಾ–ಅನಿರುದ್ಧ ಸಮಾಗಮ' ದಲ್ಲಿ ಚಿತ್ರಲೇಖೆಯ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿ

ಆ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಟಿಪ್ಪಣಿ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   3X1=03

   1. ಕನಕದಾಸ

   2. ಕುಮಾರವ್ಯಾಸ

ಇ) ಕೆಳಗಿನ ಪದ್ಯಗಳಲ್ಲಿ ಒಂದರ ಭಾವಾನುವಾದ – ಸಂದರ್ಭ – ಸ್ವಾರಸ್ಯಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ   6X1=06

   1. ಇದು ವರಾಹನ ದಾಡೆಯಿದನಾ

       ತ್ರಿದಶ ವೈರಿಗೆ ಕೊಟ್ಟೆನವನಿಂ

       ದಿದುವೆ ಭಗದತ್ತಂಗೆ ಬಂದು ವೈಷ್ಣವಾಸ್ತ್ರವಿದು

       ಇದು ಹರಬ್ರಹ್ಮಾದಿಗಳ ಗೆಲು

       ವುದು ಕಣಾ ನಿಮಿಷದಲಿ ತನಗ

       ಲ್ಲದೆ ಮಹಾಂಕುಶವುಳಿದ ಭಟರಿಗೆ ಮಣೆವುದಲ್ಲೆಂದ

   2. ಒತ್ತರಿಸಿ ಬರುವ ಬಾಯಾರಿಕೆಯೂ

       ಜಿಪ್ ಏರಿಸಿದೆ

       ಜಲಬಾಧೆ ತೀರಿಸಿಕೊಳಲೂ

       ಬೇಕು ಒಪ್ಪಿಗೆ ಪತ್ರ

       ನೀರೆಲ್ಲ ನಿರಿಗೆಯಾಗಿ

       ಪೋಷಾಕು ಸಿಂಗಾರಗೊಳುತ್ತದೆ

ಈ) ಕೆಳಗಿನ ಪದ್ಯದ ಸಾಲುಗಳಲ್ಲಿ ಎರಡರ ಸಂದರ್ಭ – ಸ್ವಾರಸ್ಯಗಳನ್ನು ವಿಶ್ಲೇಷಿಸಿ   3X2=06

   1. ಒಡಿಲಾಗಿ ಸೇರು ಎದೆಯಲಿ ಸಿಂಹದಂತೆ–ಗುಡುಗಲ

   2. ದಕ್ಷಿಣಾಫ್ರಿಕಾದ ಕಗ್ಗತ್ತಲಿಗೆ ಬೆಳಕು ಮೂಡೀತು ಹೇಗೆ?

   3. ತುದಿಬೆಟ್ಟದಿಂ ಕರೆವ ತಾಯಿಡೆಗೆ ಮರಿಜಿಂಕೆ ಜಿಗಿವಂತೆ

ಉ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   1X5=05

   1. 'ಕರ್ಣಾಟಕ ಭಾರತ ಕಥಾಮಂಜರಿ' ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?

   2. 'ಚಿತ್ರಭಾನು' ನಾಟಕವನ್ನು ಬರೆದವರು ಯಾರು?

   3. 'ನಳಚರಿತೆ' ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?

   4. ಜಿ.ಎಸ್.ಶಿವರುದ್ರಪ್ಪನವರ ಎಮರ್ಶಾ ಕೃತಿ ಯಾವುದು?

   5. ಶಿಶುನಾಳ ಶರೀಫರ ಗುರುವಿನ ಹೆಸರೇನು?

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II : ಗದ್ಯ ಪ್ರಬಂಧಗಳು

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   10X2=20

1. ರಮೆಯ ಬಾಲ್ಯದ ಮುಗ್ಧ ಕುತೂಹಲವನ್ನು 'ಮಾತಿನ ಮಲ್ಲಿ' ಪ್ರಬಂಧದಲ್ಲಿ ಹೇಗೆ ಚಿತ್ರಿಸಲಾಗಿದೆ?

2. ತಂತ್ರಜ್ಞಾನದ ಆವಿಷ್ಕಾರಗಳು ಪರಿಸರಕ್ಕೆ ಮಾರಕವಾಗುವ ಅಪಾಯಗಳ ಬಗ್ಗೆ ನಾಗೇಶ ಹೆಗಡೆಯವರ ಅಭಿಪ್ರಾಯಗಳನ್ನು ತಿಳಿಸಿ

3. ಮಹಿಳಾ ಮೀಸಲಾತಿಯ ಅಗತ್ಯದ ಹಿನ್ನಲೆಯಲ್ಲಿ ಕಂಡು ಬರುವ ಚಾರಿತ್ರಿಕ ಹಾಗೂ ವರ್ತಮಾನದ ವೈರುಧ್ಯಗಳನ್ನು ವಿವರಿಸಿ

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಟಪ್ಪಣೆ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   6X1=06

1. ಪ್ರೊ.ಜಿ.ಆರ್ ಲಕ್ಷ್ಮಣರಾವ್

2. ದೋಸೆ ತಯಾರಿಸುವಲ್ಲಿ ಅಡಗಿರುವ ವೈಜ್ಞಾನಿಕ ತತ್ವಗಳು ಯಾವುವು?

ಇ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   1X4=04

1. 'ಅಕ್ಕ' ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?

2. 'ಒಡಲಾಳ' ಕಾದಂಬರಿಯನ್ನು ಬರೆದವರು ಯಾರು?

3. 'ಹುಳಿ ಮಾವಿನ ಮರ' ಯಾರ ಆತ್ಮಕಥನ?

4. ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಆಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ ಪಡೆದ ಹಾ.ಮಾ. ನಾಯಕರ ಕೃತಿ ಯಾವುದು?

III : ಮಹಾಕಾವ್ಯ

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   10X1=10

1. ವನವಾಸಕ್ಕೆ ಹೊರಟು ನಿಂತ ಶ್ರೀರಾಮ ಕೌಸಲ್ಯೆಯನ್ನು ಸಮಾಧಾನಪಡಿಸಿದ ಸಂದರ್ಭ ಕಾವ್ಯಭಾಗದಲ್ಲಿ ಹೇಗೆ ಮೂಡಿ ಬಂದಿದೆ?

2. ರಾಮಾಯಣದಲ್ಲಿ ಆನಾದರಕ್ಕೆ ಒಳಗಾದ ಊರ್ಮಿಳೆಯನ್ನು ಕವಿ ಕುವೆಂಪು ಚಿತ್ರಿಸಿರುವ ಬಗೆ ಹೇಗೆ?

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಎರಡನ್ನು ಟಪ್ಪಣೆ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   3X2=06

1. ಮಂಥರೆ

2. ಕೌಸಲ್ಯೆ ರಾಮನನ್ನು ವನವಾಸಕ್ಕೆ ಹಾರೈಸಿ ಕಳುಹಿಸಿದ ಸನ್ನಿವೇಶ

3. ಗುಹ

ಇ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   1X4=04

1. ಕುವೆಂಪುರವಂಗೆ ಜ್ಞಾನಪೀಠ ಪ್ರಶಸ್ತಿ ದೊರಕಿಸಿ ಕೊಟ್ಟ ಕೃತಿ ಯಾವುದು?

2. ಅಹಲ್ಯೆ ಯಾರ ಪತ್ನಿ?

3. ದಶರಥನ ಮಂತ್ರಿ ಯಾರು?

4. 'ಕಾಕುತ್ಸ್ಥ 'ನೆಂದರೆ ಯಾರು?

IV : ಕ್ರಿಯಾತ್ಮಕ ಕನ್ನಡ

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಒಂದನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ

1. ದೇಶದ ಅಭಿವೃದ್ಧಿಯಲ್ಲಿ ದೂರದರ್ಶನದ ಪಾತ್ರವೇನು?   7X1=07

2. ಪ್ರಮುಖ ವಿದ್ಯುನ್ಮಾನ ಮಾಧ್ಯಮಗಳು ಮತ್ತು ಅವುಗಳ ಸ್ವರೂಪದ ಕುಂತು ವಿವರಿಸಿ

ಅ) ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ವಸ್ತುನಿಷ್ಠ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ

1. ವಿಜ್ಞಾನ ಬರವಣಿಗೆ –ಲೇಖನದ ಕರ್ತೃ ಯಾರು?   1X3=03

2. ಸ್ಪಷಲ್ ಥಿಯರಿ ಆಫ್ ರಿಲೇಟಿವಿಟಿ ಕಂಡುಹಿಡಿದ ವಿಜ್ಞಾನಿ ಯಾರು?

3. ಬ್ಲಾಗರ್ ಎಂದರೆ ಯಾರು?

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV – Degree Examination
April - 2018
SANSKRIT

Time: 3 Hours

Max. Marks: 100

1 *द्वयोः अनुवादं विवरणं च कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।*   2 X 6 = 12

1.1 अमान्ते रविणा सह योगं कृत्वा, तस्मात् पृथक् सञ्चरितः सन् चन्द्रः प्रतिदिनं स्वाधिकगत्या पूर्वदिशं याति । प्रतिदिनं गत्यन्तरांशमितं चान्द्रमानमिति । रविचन्द्रयोः गत्यन्तरांशैः द्वादशभिः एकैका तिथिर्भवति । तदेवैकैकं चान्द्रदिनं भवतीत्यर्थः । मध्यममानेन रवेर्दिनगतिः एकांशः (१) । चन्द्रस्य त्रयोदशांशाः (१३)। गत्यन्तरं द्वादशांशाः (१३-१=१२)। तदवधिः एका तिथिः ।

1.2 प्रमाणानि कथयन्ति यत् हरप्पासभ्यता वैदिकयुगस्य सूत्र कालिकी आसीत् इति । अतः ऋग्वेदः हरप्पासभ्यतायाः अपि पूर्वतनः । हरप्पासभ्यताकालीनानि नगराणि नौकास्थानानि च स्मारयन्ति यत् तन्निर्मातारः नगरनिर्माणे, वास्तुविद्यायां तन्त्रज्ञाने च अत्यन्तं निपुणाः आसन् इति । गणिते लोहशास्त्रे च तेषां महती परिणतिः आसीत् । परन्तु बहुशः एतदवगमनाय अपेक्षिता विज्ञानिकी तान्त्रिकी च पृष्ठभूमिः इदानीं न दृश्यते इति कारणतः आधुनिकाः इतिहाससवेत्तारः एतान् अंशान् उपेक्षितवन्तः इति भासते ।

1.3 धारणा, ध्यानं, समाधिश्च एतानि त्रीणि अन्तरङ्गसाधनानि । शरीरस्य कस्यापि योगशास्त्रसम्मते प्रदेशे, यथा नाभिचक्रं, हृदयकमलं, कण्ठः, मूर्धा इत्यादि प्रदेशेषु चित्तं बन्धयति चेत् सा धारणा । चित्तं तैलधारावत् ध्येयवस्तुविषये यदि एकतानतां प्राप्नोति तत् ध्यानम् । अन्तिमस्तरे समाधौ ध्येयवस्तुनः साक्षत्कारः भवति । तदा तदर्थमात्रमेव भासते । स्व-रुपस्य ज्ञानमपि न भवति । यदा व्यक्तिः एतां स्थितिं प्राप्नोति, तदा संस्कारद्वारा वा जन्मना प्राप्तवासनाद्वारा वा लब्धचित्तवृत्तयः सर्वाः क्षीयन्ते ।

2 *श्लोकद्वयोः अन्वयार्थं तात्पर्यं च कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।*   2 X 6 = 12

2.1 वक्त्रेण उत्पलनालेन यथोर्ध्वं जलमाददेत् ।
तथा पवनसंयुक्तः पादैः पिबति पादपः ॥

2.2 योगेन चित्तस्य पदेन वाचां मलं शरीरस्य च वैद्यकेन ।
योऽपाकरोत्तं प्रवरं मुनीनां पतञ्जलिं प्राञ्जलिरानतोऽस्मि ॥

2.3 वालाग्रशतभागस्य शतधा कल्पितस्य च ।
भागो जीवः सः विज्ञेयः स चानन्त्याय कल्पते ॥

2.4 सत्यं ब्रूयात् प्रियं ब्रूयात् न ब्रूयात् सत्यमप्रियम् ।
प्रियञ्च नानृतं ब्रूयात् एष धर्मः सनातनः ॥

3 *चतुर्णां वाक्यविवरणं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।*   4 X 5 = 20

3.1 भागो जीवः सः विज्ञेयः स चानन्त्याय कल्पते ।

3.2 पुष्पिणः फलिनश्चैव वृक्षास्तूभयतः स्मृताः ।

3.3 पवनसंयुक्तः पादैः पिबति पादपः ।

3.4 योगः चित्तवृत्तिनिरोधः ।

3.5 गणितं तावत् विज्ञानस्य मूलम् ।

3.6 अभ्यासवैराग्याभ्यां तन्निरोधः ।

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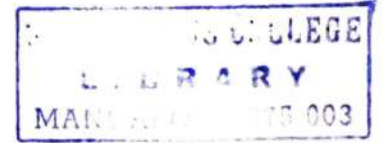
4 *द्वयोः संस्कृतभाषया टिप्पणीं लिखत ।*

4.1 आयुर्वेदः ।

4.2 पातञ्जलयोगसूत्रम् ।

4.3 पञ्चाङ्गपरिचयः ।

5 *द्वयोः टिप्पणीं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।*

5.1 वृक्षायुर्वेदः पाठमधिकृत्य प्रबन्धमेकं लिखत ।

5.2 अणुविज्ञानमधिकृत्य पाठोक्तरीत्या लिखत ।

5.3 पातञ्जलयोगसूत्रमधिकृत्य लिखत ।

6 *एकमधिकृत्य प्रबन्धरूपेण कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।*

6.1 प्राचीनभारतीयविज्ञाने उक्त गणितशास्त्रमधिकृत्य प्रबन्धं लिखत ।

6.2 सस्यशास्त्रमधिकृत्य प्रबन्धं लिखत ।

7 *न्यायत्रयं कर्णाटकभाषया आङ्ग्लभाषया वा विशदयत ।*

7.1 अरुन्धतीप्रदर्शनन्यायः ।

7.2 अन्धगजन्यायः ।

7.3 अरण्यरोधनन्यायः ।

7.4 भिक्षुपादप्रसारणन्यायः ।

7.5 दग्धाश्वदग्धरथन्यायः ।

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(2014 Batch onwards)

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St Aloysius College (Autonomous)
Mangaluru
B.A. /B.Sc./B.Com Semester IV - Degree Examination
April – 2018
KONKANI

Time: 3 Hours

Max. Marks: 100

UNIT - I

1. ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.   (1×5=5)

   ಅ) ಗಾಂವ್ ಕೊಣಾಚಾ ರಗ್ತಾಕ್ ತಾನೆಲಾ?

   ಆ) ಕಾನ್ ದೀವ್ನ್ ಕಿತೆಂ ಅಯ್ಕೊಂವ್ಕ್ ಕವಿ ಸಾಂಗ್ತಾ?

   ಇ) ಜೆ.ಬಿ.ಸಿಕ್ವೇರಾ ಕಿತೆಂ ಭೆಟಯ್ಲ್ಯಾ?

   ಈ) ಖಿಂಚಾ ದಿಸಾ ಕವಿ ವಿಶೆವ್ ಘೆಂವ್ಕ್ ಅತ್ರೆಗ್ತಾ?

   ಉ) ಬಿ.ವಿ. ಬಾಳಿಗಾ ಖಿಂಚಾ ಪತ್ರಾಚೊ ಸಂಪಾದಕ್ ಜಾವ್ನಾಸ್ಲ್ಲೊ?

2. ಖಿಂಚಾಯ್ ದೋನಾಂಕ್ ಜಾಪ್ ಬರಯಾ.   (5×2=10)

   ಅ) ಆಜ್ ತರ್ ಆಮಿ ಸರ್ವ್ ಶಪಥ್ ಘೆವ್ಯಾಂ
       ಜಿವಿತ್ ಗಾಂವಾ ಖಾತಿರ್ ಅರ್ಪಿಯಾ
       ದೇಶ್ ಮ್ಹಜೊ ಎಕ್ತಾರ್ ಎಕ್ವೊಟಾನ್ ಭರೊಂ
       ಗಾಂವ್ ಮ್ಹಜೊ ಮೊಗಾ ಮಯ್ಪಾಸಾನ್ ಪೆಟೊಂ

   ಆ) ಆತ್ಮ್ಯಾಕ್ ಮ್ಹಜ್ಯಾ ನಿರ್ಮಳ್ಚ್ ದವರ್ ದೆವಾ
       ಕಿತ್ಯಾಕ್ ಸಾಸ್ಣಾಚ್ಯಾ ಸಾಸ್ಣಾಕ್ ತೊ ತುಜೊಚ್ ಉರೊಂಕ್
       ವೊಡ್ತಾಂತ್ ಮ್ಹಜ್ಯಾ ಸುಂದರ್ ಫುಲಾಂ ದೀ ದೆವಾ
       ಕಿತ್ಯಾಕ್ ತಾಂಚ್ಲಿ ವಿಂಚ್ಣಾರ್ ತುಜ್ಯಾ ಪಾಂಯಾಂಥಳಾ ದವರ್ಚ್ಯಾಕ್ !

   ಇ) ಆಯ್ಕ್ ಕಾನ್ ದೀವ್ನ್ ಆಯ್ಕ್
       ಆತಾಂ ರಡ್ವಾಚೊ ಆವಾಜ್ ಯೆಂವ್ಯಾ
       ಪಳೆಯ್
       ಆತಾಂ ರಡ್ವಾಚೊ ಆವಾಜ್ ಯೆಂವ್ಯಾ

3. ಖಿಂಚಾಯ್ ದೋನ್ ಸವಾಲಾಂಕ್ ಜಾಪಿಂ ಬರಯಾ.   (5×2=10)

   ಅ) ಆಯ್ತಾರಾಚೊ ದೀಸ್ ಕವಿಕ್ ಕಿತ್ಯಾಕ್ ಪ್ರಮುಖ್ ಜಾತಾ?

   ಆ) 'ಪಾಲೊಂವ್' ಸೊಭಾಯೆ ದೆವಿತ್ ಮಾಣ್ಸುಗೆಚೆಂ ಪ್ರತೀಕ್ ಕಶೆಂ ಜಾತಾ. ವಿವರ್ಸಿಯಾ.

   ಇ) ಘೊವ್–ಬಾಯ್ಲಾಂ ಮಧೆಂ ಚಲ್ಲೆ ಸಂಭಾಷಣ್ 'ತುಜೆ ಮ್ಹಜೆ ಮಧೆಂ' ಕವನಾಂತ್ ಕಶೆಂ ಖಿಂತ್ರಾಯ್ಲ್ಯಾ?

4. ಖಿಂಚಾಯ್ ಎಕಾ ಕವಿಟ ವ್ಹಳಕ್ ಕರ್ನ್ ದಿಯಾ   (5×1=5)

   ಅ) ಶರತ್ ಚಂದ್ರ ಶೆಣೈ

   ಅ) ಶಬ್ಬೀರ್ ಬಾಯ್ದಾ

UNIT - II

1) ಅ) ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ:   (6×1=6)

   ಅ) ಮಾಂಡ್ಯಾಂತ್ ಕಿತ್ಲೆಂ ಪಂಗಡ್ ಆಸಾತ್?

   ಆ) ಕುಡ್ಯಾಂತ್ ಕುಳಿಯೆ ವಿಶಿಂ ಬಾಲ್ತೆರ್ ಆಸ್ಲ್ಲಿ ಸಾಂಗ್ಣಿ ಖಂಚಿ?

   ಇ) ಕೊಂಕಣಿ ಉಲೊವ್ಪಿ ಕಿತ್ಲ್ಯಾ ಜಾತಿಚೆ ಆಸಾತ್?

   ಈ) ದುಲ್ಪೊದ್ ಸಬ್ದಾಚೆಂ ಮೂಳ್ ಖಂಚೆ?

   ಉ) ಕೊಲ್ವೊಂತಾಂ ಕೋಣ್?

   ಊ) ಸೆಟ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

Contd...2

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2) ಖಿಂಚಾಯ್ ದೋನ್ ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ:

   ಅ) ಖಿಂಚೆಯ್ ಏಕ್ ಜಾನಪದ್ ಕಾಣಿ ಬರಯಾ.

   ಆ) ಕುಡ್ಮಿ ಕೋಣ್? ತಾಂಚೆಂ ಖಿಂಚಾಯ್ ಏಕ್ ವಿಶಿಷ್ಟ್ ಆಚರಣ್ ಬರಯಾ.

   ಇ) 'ಮಾಂಡೊ ಆನಿ ದುಲ್ಪೊದ್ ಎಕಾ ನಾಣ್ಯಾಚಿ ದೋನ್ ಮುಖಾಂ' ವಿವರ್ಸಿಯಾ.   (5×1=5)

3) ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ:

   ಅ) ಖಿಂಚೆಯ್ ಪಾಂಚ್ ವೇರ್ಸ್ ಬರಯಾ.

   ಆ) ಖಿಂಚ್ಯೊಯ್ ಪಾಂಚ್ ಗಾದಿ ಬರಯಾ.   (4×1=4)

4) ಖಿಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.

   ಅ) ಗೋಪಾಲಗೌಡ

   ಆ) ವಿಲಿಯಂ ಮಾಡ್ತಾ

UNIT - III

1) ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.   (1×5=5)

   ಅ) ವಿಗಾರ್ ಕಶೆಂ ಝುಡ್ತಿ ಕರ್ತಾ?

   ಆ) ಲೂಕಾಕ್ ಖಿಂಯ್ ವೊಚೊಂವ್ಕ್ ಅನುಮತಿ ಮೆಳ್ತಾ?

   ಇ) ತೀ ತೊ ಆನಿ ಗೇಂಗ್ ಕಾದಂಬರಿಚೊ ಗ್ರಂಥ್‌ಕರ್ತ್ ಕೋಣ್?

   ಈ) ಬಿಸ್ಪಾನ್ ಲ್ಯೂಕಾವಿಶಿಂ ವಿಚಾರಣ್ ಕರುಂವ್ಕ್ ಕೊಣಾಕ್ ಆದೇಶ್ ದಿಲ್ಲೊ?

   ಉ) ಲೂಕಾಬಾ ಗೇಂಗಾಂತ್ ಕಿತ್ಲೆ ಜಣ್ ಆಸ್‌ಲ್ಲೆ?

2) ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.   (5×2=10)

   ಅ) ವಿಗಾರಾನ್ ಸತ್ ಸಮ್ಜುಂವ್ಕ್ ಕಾಡ್‌ಲ್ಲಿ ಮ್ಹಿನತ್ ಕಳಯಾ.

   ಆ) ಸಿಬಿಲ್ ಕೋಣ್? ತೆಂ ಕಿತ್ಯಾಕ್ ಲೂಕಾಚೆರ್ ಮೊಸೊರ್ ಕರ್ತಾಲೆಂ?

3) ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.   (10×1=10)

   ಅ) ಹ್ಯೂಬರ್ಟ್ ವಡೇರ ಕೋಣ್? ಆನಿ ತಾಣೆಂ ದಿಲ್ಲಿ ಸಾಕ್ಸ್ ವಿವರ್ಸಿಯಾ.

   ಆ) ಟೀಚರ್ ಗ್ಲ್ಯಾಡಿಸ್, ಹರಿಣಾಕ್ಷಿ ಪೂಜಾರ್ತಿ ಹಾಣೆಂ ದಿಲ್ಲಿ ಸಾಕ್ಸ್ ವಿವರ್ಸಿಯಾ.

IV. ಅ) ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.   (1×5=5)

   ಅ) ಕಡಲ ತೀರದಲ್ಲಿ ಜೀವನ ನಡೆಸುತ್ತಿರುವ ಕುಟುಂಬಗಳು ಮೀನು ಹಿಡಿಯುವ ಕಾಯಕವನ್ನು ನಡೆಸುತ್ತಿದ್ದಾರೆ – ಹೆಂ ಕೊಂಕಣೆಕ್ ಭಾಷಾಂತರ್ ಕರಾ.

   ಆ) ಪತ್ರಾಕ್ ವರ್ದಿ ಬರಯ್ತಾನಾ ಕೊಣಾಕ್ ಧಾಡ್ನ್ ದೀಂವ್ಕ್ ಜಾಯ್?

   ಇ) ಲಿಪಿಯಂತರ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

   ಈ) ಗಾದ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

   ಉ) ಖಿಂಚಾಯ್ ಎಕಾ ಅನುವಾದಿತ್ ಸಾಹಿತ್ಯಚೆಂ ಉಲ್ಲೇಖ್ ಕರಾ.

2) ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.   (5×3=15)

   ಅ) ಸುಣ್ಯಾಚಿ ಶಿಮ್ಟಿ ವಾಂಕ್ಡಿ ವಾಂಕ್ಡಿಚ್ ಗಾದ್ ವಿಸ್ತರುನ್ ಬರಯಾ.

   ಆ) ಸಮಾಜೆಚ್ಯಾ ಉದರ್ಗತೆ ಖಾತಿರ್ ಯುವಜಣಾಂಚೊ ಪಾತ್ರ್ ಹ್ಯಾ ವಿಷಯಾಚೆರ್ ಪ್ರಬಂಧ್ ಬರಯಾ.

   ಇ) ಕೊಂಕಣಿ ಸಂಘಚ್ಯಾ 'ಪರ್ಜಳ್' ಪುಸ್ತಕಾಚ್ಯಾ ಉಗ್ತಾವಣ್ ಕಾರ್ಯಚೆಂ ವರ್ದಿ ಬರಯಾ.

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(2016 Batch onwards)

G 140.4   Reg. No:

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Com./B.Sc. - Semester IV - Degree Examination
April – 2018

ADDITIONAL ENGLISH

Time: 3 Hours   Max. Marks: 100

PART – A
(Prose and Short Stories)

I. Answer the following in about 150 words each: (5x2=10)

1. How is the story "The Noble Bachelor" a comment on the stark differences between Victorian and American approach to society?

2. How are the themes of death and situational humor expressed in the story "The Undertaker".

II. Answer the following in about 300 words: (10x1=10)

1. How does the story of the Undertaker provide the reader with an insight into the plight of the pelting class?

PART – B
(Drama)

I. Answer the following in about 150 words: (5x2=10)

1. Give instances from the play "Dance like a Man" where vishwas feels out of place in the dancer's family.

2. Discuss how the lack of commitment towards Shankar affects the parents in the play "Dance like a Man".

II. Answer the following in about 300 words: (10x2=20)

1. Justify the title "Dance like a Man".

2. "Our actions are shaped according to the society". Explain with reference to the play "Dane like a Man".

PART – C
(Discursive writing)

I. Answer the following in about 150 words: (5x2=10)

1. Write a short note on the functioning of Naxalites or a Maoist in the words of Arundhati Roy.

2. What are the different atrocities faced by the Naxalites and Maoists across India? Narrate few incidents quoted by Arundati Roy in walking with the comrades.

II. Answer the following in 300 words: (10x1=10)

1. Bring out a few incidents or stories narrated by Arundhati Roy about the atrocities that created anger and hatred among the villagers that forced them to join the movement.

PART – D
(Grammar and Writing Skills)

I. **Write an argumentative essay on:** (1x10=10)

1. "Should nuclear weapons be outlawed worldwide".

II. **Correct the errors in the given sentences:** (5x1=5)

a. He jumped a ten feet wide ditch

b. I neither know the name of the author, nor the bookseller

c. He was the man whom I taught was very poor.

d. I hired a housekeeper whom I met at my mother's new house.

e. They have managed to make a good life themselves.

III. **Frame questions to get the underlined words as answers:** (5x1=5)

a. Peter runs with his dog <u>on Sundays</u>

b. Laura is <u>tall, slim and beautiful</u>

c. The lake is <u>three meters</u> deep

d. <u>No</u>, he wouldn't study at Eton

e. It's <u>cold and foggy</u>

IV. **Write a review in about 150 words for the movie "Great Debators".**

(1x5=5)

V. **Mr. Sen is the Chief guest for the college Union Inaugural. Prepare a brief introduction of Mr. Sen.**

(1x5=5)

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St Aloysius College (Autonomous) Mangaluru

B.A./B.Sc./B.Com. Semester IV – Degree Examination

April – 2018

FRENCH

Time: 3 hrs.   Max Marks: 100

I.   **Complétez le texte utilisant le passé composé, imparfait,et le futur.**

10x1=10

"J'(commencer) à travailler avant-hier à l'agence d'Immobilier. Le premier jour, le patron m'(recevoir). J'(être) un peu inquiet mais il (être) très gentil avec moi. Il m'(expliquer) l'organisation du travail.

Ce matin, avec un collègue, nous (aller) visiter une grande maison. C'était des Italiens qui la(louer) mais ils sont renters dans leur pays.

Demain, je (passer) la journée avecc une cliente qui travaille dans une ambassade et qui (vouloir) trouver un appartement rapidement. Nous (visiter)plusieurs appartements.

II. **lisez le texte et répondez**   **10x1=10**

BOB MARLEY OU LE REBEL...

Un destin exceptionnel pour cet artiste sorti des ghettos de Kingston... C'est aujourd'hui le symbole universel du Reggae. Partout sa musique est jouée, ses disques s'écoutent toujours et les ventes ne s'arrêtent pas. Au Brésil, dans les canyons de l'Arizona, comme dans le bush australien, des communautés lui consacrent un culte, dansent sur ses rythmes... Le reggae n'explique pas tout. Bob Marley n'était pas un artiste comme les autres. Il possédait ce que l'on appelle du charisme. Il était musicien mais se considérait surtout comme le messager d'une nouvelle religion, le rastafarisme. La foi fut l'axe essentiel de sa vie mais aussi le centre de son oeuvre.

Il n'est pas un problème, de la crise financière à l'écologie, de la famine à la pauvreté, qu'il n'ait pas évoqué dans ses textes. Bob Marley faisait danser les gens en les aidant à prendre conscience de certaines choses de la vie de tous les jours. Dans l'une de ses premières créations, il se définissait comme un 'rebelle de l'âme'. Il n'eut de cesse d'assumer cette rébellion, d'en payer le prix, pour devenir l'un des derniers héros universels du XXe siècle...

a) Qui est Bob Marley?

b) Où est –il né?

c) Comment appelle-t-on la musique il a créée?

d) Comment est-il considéré?

e) Comment se définissait-il?

f) Comment s'appelle mouvement créé par Bob Marley?

g) Qui consacre un culte en sa favour?

h) Qu'est-ce qui n'est pas évoqué dans ses texts?

i) Connaissez – vous ses chansons les plus célèbres?

j) Connaissez –vous d'autres chanteurs de reggae?
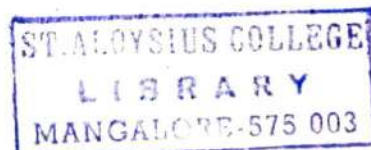
III. Répondez six questions au choix   10x6=60

1. Parlez de la période de la renaissance. Qui sont les grands peintres de cette période?
2. Quelles sont leurs grandes réalisations?
3. Quelles sont les qualités, un chef d'entreprise doit avoir?
4. Qui a inventé la cinématographie? Où, quand et comment?
5. Quel image portez-vous de la France? Parlez les conditions de travail en France?
6. Quel metiers aimeriez-vous faire plus tard?
7. Comment voyez-vous le système économique en Inde?
8. Expliquez le comportement étrange de la rose?

IV. Ecrivez le dialogue au choix   10x1=10

1. Vous avez prêté votre appartement à un(e) ami(e). Quand vous chez vous, vous trouvez le fauteuil cassé, les plantes mortes etc. Vous demandez des expliquations. Votre ami(e) raconte et s'excuse.

   Ou

2. Vous allez faire une grande surprise aux parents pour leur anniversaire. Vous discutez avec un(e) ami(e).

V. Ecrivez la lettre

1. Vous avez obtenu une bourse pour faire un stage chez Go Sport en France. Vous êtes très excité(e). Vous exprimez votre joie, doute etc. à um(e) ami(e).   10x1=10

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(2014 Batch onwards)

G 151.4

Reg. No:

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc./B.Com. Semester IV – Degree Examination
April - 2018

MALAYALAM

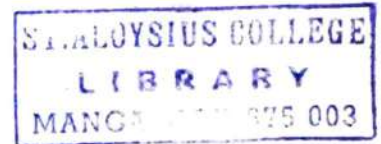Time: 3 Hours

Max. Marks: 100

I രണ്ടെണ്ണം വ്യാഖ്യാനിക്കുക   (2x5 =10)

1 നേർത്തോരബരപ്പശ്രു–

വൂറുമാവിരിക്കണ്ണിൽ–

പാർത്തുഞാനൊരുയജ്ഞ–

പ്പശുവിന്റേറതിൻപോലെ.

2 വണ്ടുകൾ തുളച്ച പുൽത്തണ്ടുകളിൽ,ഞങ്ങളിൽ

വീണ്ടുമൊരുകാറ്റായ് വരൂനീ...

3 ചുടുകണ്ണീരോടു പാർഷതിയൊന്നു

വിളിക്കേയുഴറ്റൊടണഞ്ഞോനേ നീ–

യെവിടെ? വിളിച്ചു വിളിച്ചു തളർന്നേ–

നെവിടെപ്പോയ് നീയെന്നുടയോനെ.

4 ഒരുസൂര്യനുദിക്കും,നിഴലായിട്ടബിലിവളരും

വളരും വനമോടികളിലാടിത്തെളിയും

വനമൂർച്ചയിൽ ദു:ഖം തകരും

ഞാനന്നുചിരിക്കും

II രണ്ടെണ്ണത്തിനു കുറിപ്പു തയ്യാറാക്കുക   (2x5 =10)

5 'ഇസങ്ങൾക്കപ്പുറം' എന്ന കൃതിയോട് ബാലമോഹൻതബിയും

ഗോവിന്ദൻപിള്ളയും പ്രതികരിച്ചതെങ്ങിനെ ?

6 ദേവിന്റെ 'കവി' എന്ന കഥയുടെ പ്രത്യേകതയെന്ത്?

7 ഇരയിമ്മൻതബിയുടെ 'കരുണചെയ്‌വാനെന്തുതാമസം' എന്നുതുടങ്ങുന്ന കൃതി

ചെമ്പെയതുകുലകാംഭോജിയിൽ പാടുവാനിടയായ സാഹചര്യമെന്ത്?

III രണ്ടെണ്ണത്തിന് രണ്ടു പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക   (2x10=20)

8 'കൃഷ്ണപക്ഷത്തിലെ പാട്ട് എന്ന കവിതയിലെ പ്രമേയമെന്ത്?

9 കിരാതവൃത്തത്തിലെ കാട്ടാളന്റെ പ്രതിഷേധവും പ്രതീക്ഷയും എങ്ങിനെ

ആവിഷ്ക്യതമാകുന്നു?

10 'ഗജേന്ദ്രമോക്ഷ'ത്തിലെ ആനയുടെ ചിന്തകൾ ഒരു ആസ്തികന്റെ പശ്ചാത്താപ

വിവശമായ ആത്മസമർപ്പണമാണ്–വിശദമാക്കുക

IV രണ്ടെണ്ണത്തിന് മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക. (2x15=30)

11 ഗുപ്പൻനായരുടെ നാടകരംഗത്തെ അനുഭവങ്ങളെന്തെല്ലാം ?

12 കവി, വ്യക്തി എന്നീ നിലകളിൽ വൈലോപ്പിള്ളിയുടെ പ്രത്യേകതയെന്ത്?

13 ആശാൻ ജനകീയ കവിയല്ല എന്ന ഗുപ്പൻനായരുടെ പ്രസ്ഥാവന അന്നത്തെ
സാഹിത്യാന്തരീക്ഷത്തിൽ ഉണ്ടാക്കിയ പ്രശ്നങ്ങൾ എന്തെല്ലാം?

V ഒരെണ്ണത്തിന് മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x15=15)

14 'ശ്രീജിതനാണ് രാവണൻ' എന്നതിനെ ലങ്കാലക്ഷ്മിയിൽ ആവിഷ്കൃതമാകുന്ന
സംഭവങ്ങൾ എങ്ങിനെ സാധൂകരിക്കുന്നു?

15 മാല്യവാൻ , സുപാർശ്വൻ എന്നീ കഥാപാത്രങ്ങൾക്ക് നാടകത്തിലുള്ള
സ്ഥാനമെന്ത്?

VI ഒരെണ്ണത്തിന് മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x15=15)

16 മാധ്യമസ്വാതന്ത്ര്യം–ഗുണവും ദോഷവും

17 പൊതുമുതൽനശിപ്പിക്കൽ– നിരർത്ഥകമായ ഒരു സമരതന്ത്രമാണ്–
വിശദമാക്കുക

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(2014 Batch onwards)

G 501.4

Reg. No. :

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV– Degree Examination
April - 2018
PHYSICS
ELECTROMAGNETISM, ELECTRICITY II & ELECTRONICS I

Time: 3 hrs.   Max Marks: 100
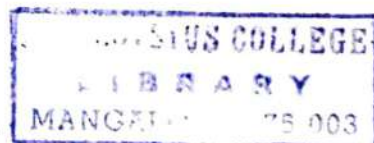
SECTION – A

Answer any <u>TEN</u> of the following.   **(10×2=20)**

1. a) Define the terms – i) current density   ii) volume charge density.

   b) Define divergence of a vector function. Express it in Cartesian coordinates.

   c) Distinguish between inductive and capacitive reactance.

   d) What is normal dispersion?

   e) Define quality factor of LCR circuit. What is its significance?

   f) Draw series LCR circuit and write the expression for the current in the circuit.

   g) Define cutoff frequency of high pass filter and write the expression for the same.

   h) What is cut-in voltage of a diode?

   i) What is a two port network?

   j) Which are the three modes of connection of a transistor?

   k) Write the structure of n channel FET.

   l) If the current gain α of a transistor is 0.99, what is the value of β?

SECTION – B

Answer <u>TWO</u> full questions from each unit:

UNIT – I

2. a) Arrive at the equation curl $E = -\dfrac{\partial B}{\partial t}$.   **(6)**

   b) Derive equation of continuity.   **(4)**

3. a) Derive the equation for electromagnetic waves and arrive at the expression for the velocity of light.   **(6)**

   b) Give Maxwell's field equations.   **(4)**

4. a) Starting from Ampere's law, arrive at Maxwell's fourth equation.   **(6)**

   b) What are scalar fields and vector fields? Give one example for each.   **(4)**

UNIT – II

5. a) Explain parallel LCR circuit. Obtain expression for the impedance and the resonant frequency.   **(6)**

   b) Explain a RC low pass filter with circuit diagram and obtain an expression for its cut off frequency.   **(4)**

6. a) Draw the circuit diagram of a bridge rectifier, explain its working and obtain an expression for efficiency, ripple factor and voltage regulation factor. (6)

b) Distinguish between series and parallel LCR circuit. (4)

7. a) Explain delta connection and obtain the relation between line current and phase current. (6)

b) Explain the inductor input filter. (4)

UNIT – III

8. a) Explain fixed bias circuit, mention its advantages and disadvantages. (6)

b) Obtain the relation between α and β of a transistor. (4)

9. a) Obtain h parameter model of transistor in CE mode. (6)

b) What is a DC load line? How is it drawn for a transistor circuit? (4)

10. a) Explain the input and output characteristics of a transistor. (6)

b) Explain the construction of enhancement type MOSFET. (4)

SECTION – C

Answer any **FOUR** of the following:

(4×5=20)

11. If $\phi = 3x^2 y - 2y^3 z^2 + zx^2$. Find $\nabla\phi$ at the point (1,-1, 1).

12. An AC circuit has a resistance of 200Ω and an inductance of 10mH. If the frequency of ac is 60 Hz, calculate the power factor. What capacitance is required to make the power factor unity?

13. A high pass filter circuit uses a resistor of $1K\Omega$ and a capacitor $0.1\mu F$. A low pass filter uses $R = 10K\Omega$ and $C = 0.001\mu F$. If they are used to form a band pass filter, find the band width of the resulting circuit.

14. A half wave rectifier circuit uses a diode with forward resistance of 30Ω. Find the value of the maximum load resistance for which the circuit has maximum efficiency.

15. A 3 phase star connection has a phase voltage of 220V. If it supplies power to resistive load of $10K\Omega$, find the line voltage, line current and phase current and power delivered to the load.

16. In CE circuit, silicon transistor with voltage divider bias, $R_1 = 15K\Omega$, $R_2 = 5K\Omega$, $R_c = 2K\Omega$, $R_E = 3K\Omega$ and $V_{cc} = 20V$. Draw dc load line and locate Q point.

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(2014 batch onwards)

G 502.4

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV – Degree Examination
### April - 2018

CHEMISTRY

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

1. Answer any **TEN** of the following questions in 1 to 3 sentences.

(2x10=20)

a) Define entropy. Give its SI unit.

b) Define Helmoltz free energy.

c) State Carnot's theorem.

d) What is spectrochemical series?

e) What is linkage isomerism? Give an example.

f) Calculate CFSE (in Dq units) for $[Fe(CN)_6]^{4-}$ ion.

g) What is an Elimination reaction? Give an example.

h) What is Wolf-Kishner reduction? Give an example.

i) What is Perkins reaction? Give an example.

j) State and explain Grothus-Draper Law.

k) What is photosensitizer? Give one example.

l) What is chemiluminescence. Give one example.
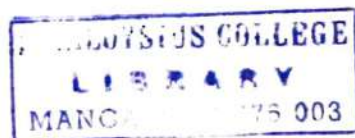
PART – B

2. Answer any **TEN** of the following questions in 2 to 5 sentences

(3x10=30)

i) Derive Kirchoff's equation.

ii) Derive an expression for the entropy change accompanying the variation of temperature and volume.

iii) Calculate the free energy change which occurs when one mole of an ideal gas expands reversibly and isothermally at 300K from the initial volume of 5 litres to 50 litres.

iv) Explain hydrate isomerism with examples.

v) Write the IUPAC names of
a) $Na_2[Fe(CN)_5NO]$ b) $K_3[Cr(C_2O_4)_3]$ c) $[Au(CN)_2]^-$

vi) Calculate the EAN of a) $[Cu(NH_3)_4]SO_4$ b) $K_3[Fe(CN)_6]$ (Atomic numbers of Cu and Fe are 29 and 26 respectively).

vii) Explain the mechanism of Aldol condensation with an example.

viii) Explain the mechanism of Wittig's reaction.

G 502.4

ix) Explain mechanism of reduction of carbonyl compound with $NaBH_4$.

x) What is meant by Primary and secondary process in photochemistry.

xi) Explain phosphorescence with an example.

xii) Explain the reason for low quantum yield.

PART – C

Answer any <u>TEN</u> of the following questions   (5x10=50)

3. Explain Carnot's cycle and derive an expression for its efficiency.

4. Derive an expression for the variation of Gibb's free energy with temperature and pressure.

5. Derive an expression for the entropy of mixing of ideal gases.

6. Explain geometrical isomerism in complex compounds with co ordination No.6.

7. Explain crystal field splitting of 'd' orbitals in octahedral complexes.

8. Explain the factors affecting magnitude of crystal field splitting.

9. Explain the mechanism of MPV reduction.

10. What is Michael addition? Give its mechanism.

11. Explain Cannizzaro reaction with mechanism.

12. Draw and discuss the Jablonski diagram for depicting various photophysical processes.

13. Explain photochemical reactions of Norrish Type I.

14. Explain why the quantum yield for the photochemical combination of H_2 and Cl_2 is very high.

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

MATHEMATICS
Functions of a Complex Variable, Number Theory, Group Theory and Real Analysis

Time: 3 Hours

Max. Marks: 100

Note: Answer all parts

PART – A

(10×2½=25)

Answer any <u>TEN</u> of the following.

1. Show that $f(z)=2xy+i(x^2-y^2)$ is nowhere analytic.

2. Find the singularities of $f(z)=\dfrac{2z+1}{z(z^2+4)}$.

3. Find the domain of $f(z)=\dfrac{1}{z^2+1}$.

4. Calculate $\phi(1001)$.

5. If $n=P_1^{k_1}.P_2^{k_2}\ldots\ldots\ldots P_r^{k_r}$ is the prime factorization of $n>1$ then prove that sum of the divisors is $(k_1+1)(k_2+1)\ldots\ldots\ldots(k_r+1)$.

6. Express $\dfrac{19}{51}$ as continued fraction expansion.

7. Let $\phi:G\to G'$ be a homomorphism prove that $\phi(x^{-1})=[\phi(x)]^{-1}\ \forall x\in G$.

8. Define inner automorphism and prove that it is an automorphism.

9. Determine if the permutation $\begin{pmatrix}1&2&3&4&5&6&7&8&9\\1&8&3&9&4&5&2&7&6\end{pmatrix}$ is even or odd.

10. Determine if the sequence $\left\{\dfrac{3n-1}{4n+5}\right\}$ is increasing or decreasing.

11. Determine if the series $\sum\limits_{n=1}^{\infty}\dfrac{2n+1}{3n+2}$ is convergent or divergent.

12. If $\{s_n\}$ is the sequence of partial sums of a convergent series, then prove that for any $\varepsilon>0$ there exists $N>0$ such the $|S_R-S_T|<\varepsilon\ \ \forall R\ and\ T$ greater than N.

13. State root test.

14. Determine if the series $\sum\limits_{n=1}^{\infty}(-1)^n\dfrac{3^{2n+1}}{n^{2n}}$ is absolutely convergent or conditionally convergent.

15. Prove that the series $\sum\limits_{n=1}^{\infty}(-1)^n\dfrac{\log n}{n^2}$ is convergent.

G 503.4

PART – B
UNIT - I

Answer any THREE of the following.

1. Suppose $f(z) = u(x,y) + iv(x,y)$, $z_0 = x_0 + iy_0$, $w_0 = u_0 + iv_0$ then show that

   $\lim\limits_{z \to z_0} f(z) = w_0 \Leftrightarrow \lim\limits_{(x,y) \to (x_0,y_0)} u(x,y) = u_0$ and $\lim\limits_{(x,y) \to (x_0,y_0)} v(x,y) = v_0$

2. Show that $f(z) = |z|^2$ is differentiable only at the origin.

3. Let the function $f(z) = u(x,y) + iv(x,y)$ be defined throughout some neighbourhood of a point $z_0 = x_0 + iy_0$. Suppose that the first order partial derivatives of the function u and v with respect to x and y exist everywhere in that neighbourhood and that they are continuous at (x_0, y_0). If the partial derivatives satisfy C.R equations $u_x = v_y$ and $v_x = -u_y$ at (x_0, y_0) then prove that $f'(z_0)$ exist.

4. Find the harmonic conjugate of $u(x,y) = y^3 - 3x^2y$.

5. If $f(z) = r^{\frac{1}{3}} e^{\frac{i\theta}{3}}$, find $f'(z)$ using polar co-ordinates and also express $f'(z)$ in Z.

UNIT - II

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

1. If $a \geq 1$ and $g.c.d.(a,n) = 1$, then prove that $a^{\phi(n)} \equiv 1 (\bmod n)$.

2. Define mersenne numbers M_n. If p and $q = 2p+1$ are primes then prove that either $q \mid Mp$ or $q \mid Mp+2$ but not both.

3. Prove that the radius of the inscribed circle of a Pythagorean triangle is always an integer.

4. Prove that the greatest common divisor of two Fibonacci numbers is a Fibonacci number.

5. If C_K is the kth convergent of a simple continued fraction then prove that

   $C_0 < C_2 < C_4 < \dots\dots$ and $C_1 > C_3 > C_5 > \dots\dots$.

UNIT - III

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

1. Prove that a subgroup N of a group G is normal in G if and only if every left coset of N in G is a right coset of N in G.

2. If ϕ is homomorphism of a group G onto a group $\bar{G}$ with kernel K, then prove that $\dfrac{G}{K}$ is isomorphic to $\bar{G}$.

G 503.4

3. Define an automorphism of a group G and prove that the set of all automorphisms of G is a group.

4. Prove that any permutation can be expressed as product of disjoint cycles.

5. Prove that S_n has a normal subgroup of index 2.

UNIT - IV

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

1. Using the definition of convergence prove that the sequence $\left\{ \dfrac{n}{2n+1} \right\}$ converges to $\dfrac{1}{2}$.

2. Prove that a bounded monotonic sequence converges.

3. Prove that the series $\displaystyle\sum_{p=1}^{\infty} \dfrac{1}{n^p}$ converges if $p < 1$.

4. Test the convergence of the following series

   i) $\displaystyle\sum_{n=1}^{\infty} \dfrac{1}{\left(n^2+3\right)^{\frac{1}{3}}}$ ii) $\displaystyle\sum_{n=1}^{\infty} ne^{-n}$.

5. State and prove integral test.

UNIT - V

                                                    (7½x2=15)

Answer any TWO of the following.

1. State and prove Leibniz's test.

2. State and prove ratio test.

3. Test the convergence of the following series

   i) $\displaystyle\sum_{n=1}^{\infty} \dfrac{n!}{2^{n+1}}$ ii) $\displaystyle\sum_{n=1}^{\infty} (-1)^n \dfrac{3}{n^2+1}$ iii) $\displaystyle\sum_{n=1}^{\infty} (-1)^n \dfrac{3^n}{n^2}$.
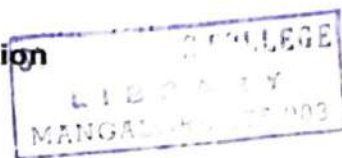
4. Determine if the following series are absolutely convergent, conditionally convergent or divergent.

   i) $\displaystyle\sum_{n=1}^{\infty} \dfrac{1}{[\log(n+1)]^n}$ ii) $\displaystyle\sum_{n=1}^{\infty} (-1)^{n+1} \dfrac{3^n}{n!}$ iii) $\displaystyle\sum_{n=1}^{\infty} (-1)^{n+1} \dfrac{1}{n(\log n)^2}$.

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(2015 Batch onwards)

Reg. No.

St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester IV – Degree Examination

April - 2018

ELECTRONICS

Breakdown Devices, Power Amplifiers, Fundamentals of Electronic Communications and Digital Computers

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) Minimum numbers of address lines required to address 512 memory locations is ---------
    a) 3 b)8 c) 16 d) 6

  ii) In the forward blocking region of a silicon controlled rectifier, the SCR is -------
    a) In the OFF state b) In the ON state
    c) Reverse biased d) At the point of breakdown

  iii) If a carrier is frequency modulated by a modulating signal of frequency 15 kHz, the percentage modulation is ---------
    a) 40% b) 80% c) 50% d) 20%

  iv) The device commonly used for triggering a TRIAC is ----------
    a) Diode b) Transistor c) Zener diode d) Diac

  v) The conversion efficiency of a class – A amplifier can be increased with -----
    a) Direct coupled load b) Low DC power I/P
    c) Transformer coupled load d) Low rating resistor.

  vi) Q point of a class B power amplifier is placed -------------.
    a) in the middle of the load line b) At saturation c) At cut-off
    d) Between the middle of the load line and cut-off point

  vii) The square law diode detector is used as ----------- detector.
    a) FM b) AM c) PM d) PPM

  viii) Which one of the following memory device is the fastest?
    a) MOS b)Bipolar c) Flash d) Magnetic

  ix) The radiation resistance of half wave dipole thin linear antenna is -------
    a) 320 Ω b) 120 Ω c) 80 Ω d) 40 Ω

  x) Number of side bands produced in AM----------
    a) two b) depends on modulating frequency
    c) depends on modulation index d) depends on carrier frequency

  xi) A transmission line is having a reflection coefficient of 0.33 when terminated from load. Its standing wave ratio is ----------
    a) 0.5 b) 0.33 c) 1.98 d) 3

  xii) The percentage of the earths surface visible in terms of direct line of sight for a three satellite Clarke orbit communication link is
    a) 42.2% b) 84.4% c) 98% d) 100%

Contd...2

2. **Answer any <u>TEN</u> questions.** (10x1=10)

i) Mention any two applications of a SCR.

ii) Distinguish between DIAC and TRIAC.

iii) Define holding current.

iv) Define the term skip distance.

v) How many reflectors are used in Yage-Uda antenna?

vi) Define critical frequency.

vii) What is the function of program counter in a microprocessor? Explain.

viii) Define MUF.

ix) What is meant by a volatile memory?

x) Write two differences between dynamic MOS cell and static MOS cell.

xi) Expand SMPS.

xii) Draw the circuit diagram of FET modulator.

3. **Answer any <u>TEN</u> questions.** (10x2=20)

i) Name the two types of radio receivers.

ii) What is the need for modulation?

iii) A class-A power amplifier has collector efficiency of 45% and is operated by 20V power supply. If AC power output is 5W, calculate the power dissipated within the transistor and power rating of transistor.

iv) What is a microprocessor? Give one example.

v) Explain the frequency spectrum of AM.

vi) What is station keeping?

vii) Define reflection coefficient of a transmission line. Give the equation for reflection coefficient.

viii) What is tuning and why it is required?

ix) Define a) load regulation and b) line regulation.

x) Draw the circuit and input and output wave forms of a half wave rectifier using SCR.

xi) List any two advantages of transformer coupled class A power amplifier.

xii) What do you mean by resonant and non resonant transmission lines?

SECTION – B

4. **Answer any <u>SEVEN</u> questions.** (7x4=28)

i) Show that SSBSC scheme of AM saves 83.3% power as compared to DSBTC scheme corresponding to 100% modulation.

ii) Compare SCR and TRIAC.

iii) An FM wave is represented by the equation $v = 10 \sin 2\pi \times 10^6 t (1 + 0.8 \sin 6200t)$. Calculate

   a) Modulation index   b) Modulating signal frequency

   c) Power dissipated in 15 Ω load

iv) With a circuit diagram explain the action of zener regulator. Obtain the 046 expression for S_v.

v) With a neat diagram explain Yagi-Uda antenna. .

vi) Derive the expression for characteristic impedance of a transmission line.

vii) Draw the block diagram of a UPS and explain.

viii) Write a note on evolution of microprocessor.

ix) With necessary circuit diagram explain write operation in a static MOS memory cell.

x) With circuit diagram explain class A transformer coupled power amplifier and calculate the maximum efficiency.

SECTION – C

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

5. a) With necessary diagrams derive the expression for electric and magnetic field intensities at a distance 'r' from the center of the electric dipole.   **(6)**

   b) With necessary diagrams obtain the expression for conversion efficiency of a class B power amplifier.   **(4)**

6. a) With block diagram, explain AM super heterodyne receiver.   **(6)**

   b) Determine the power content of each of the side bands and the carrier that has a percentage modulation of 80% and a total power of 1200 W.   **(4)**

7. a) Discuss the principle of storing data in flash memory cell and explain the read process in a flash memory cell.   **(6)**

   b) With circuit diagram, explain the power control using TRIAC.   **(4)**

8. a) Draw the architecture of a general microprocessor and explain.   **(6)**

   b) Write a note on parabolic refocetor   **(4)**
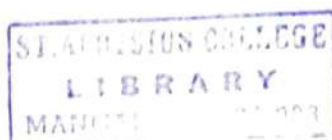
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Time: 3 hrs.

Max Marks: 100

PART–A

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

1. a) How is Java more secured than other languages?

   b) What is type casting? Give an example.

   c) Given a=5, b=6, c=-6. Determine the values of

   i) a>b && a<c   ii) a<c && b==c || b<a

   d) What are command line arguments?

   e) Mention any four exceptions of Java.

   f) What are wrapper classes?

   g) List the differences between array and vector.

   h) What is method overriding?

   i) List any two features of applet.

   j) What is an interface? Give the syntax of interface.

   k) What is the purpose of yield() and notify() in threads?

   l) What is finally block? When it is used?
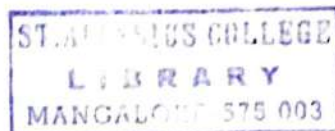
PART–B

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

Unit I

2. a) Briefly explain the Java environment.   (8)

   b) Explain the structure of a Java program.   (6)

   c) Explain the following features of Java   (6)

   i)   platform independence

   ii)   Multithreading

3. a) What are Java tokens? Explain them in detail.   (8)

   b) Describe the classification of Java statements.   (6)

   c) What are the benefits of labelled for loop? Explain with an example.   (6)

Unit II

4. a) What is inheritance? Explain the different types of inheritances.   (8)

   b) Explain the method overloading with suitable example.   (6)

   c) Write a note on static members and static methods.   (6)

5. a) Define a superclass 'Employee' with members eno, ename, basic with a   **(11)**
        constructor to initialize these members.

        Derive a subclass 'salary' with members HRA, DA, PF, INS, grosspay,
        netpay. Define a constructor to involve the superclass constructor.
        Define a method netsalary with the following calculations.

        DA =45% of basic
        HRA =7% of basic
        PF= 10% of basic
        INS= 650

        Write a main class to demonstrate single level inheritance.

   b) Explain the following: **(9)**
        i)   Final method
        ii)   Final class
        iii)   Abstract class

Unit III

6. a) What is package? How to create package? Explain with an example   **(8)**
   b) Explain the various string methods of Java.   **(6)**
   c) Write a note on Java API packages.   **(6)**

7. a) Describe the various forms of implementing interfaces. Give example.   **(8)**
   b) Explain the different wrapper classes to convert primitive number to   **(6)**
        object numbers and vice versa.
   c) Explain the various methods used in vector class.   **(6)**

Unit IV

8. a) Explain the built in exceptions of Java.   **(8)**
   b) Explain the life cycle of a thread.   **(6)**
   c) Write a note on JDBC connectivity models.   **(6)**

9. a) With a neat diagram explain the life cycle of applet.   **(8)**
   b) Write a note on synchronization.   **(6)**
   c) Write a note on thread priorities.   **(6)**

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Reg. No:

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV – Degree Examination
April - 2018
STATISTICS
Statistical Inference -II

Time: 3 Hours
Note: Answer all parts

Max. Marks: 100

PART – A

1 Answer any TWELVE of the following.　　　　(2x12=24)

a. What is meant by statistical hypothesis?

b. Define power of a test procedure.

c. When do you say that a test procedure is consistent?

d. Define the term level of significance.

e. What are one tailed and two tailed tests?

f. State any two properties of likelihood ratio test procedure.

g. Briefly explain the large sample test procedure of testing the mean of a population.

h. Mention the applications of chi square distribution in testing of hypothesis.

i. Describe students 't' test for testing correlation coefficient.

j. Explain 't' test for testing the mean of a normal population.

k. Briefly explain the need for sequential test.

l. What do you mean by strength of SPRT?

m. State any two advantages of non parametric inference.

n. Distinguish between 'non parametric methods' and 'distribution free methods'.

o. State the assumptions in non parametric methods.

PART – B

Answer any SIX of the following.　　　　(6x6=36)

2. Let X be a random variable of continuous type with probability function $f(x)$. Find the power of a most powerful test of size $\alpha = 0.1$ for testing

$H_0: f(x) = 2x, 0 < x < 1$ against $H_1: f(x) = 4x^3, 0 < x < 1$ based on a sample of size one.

3. Let $x_1, x_2, ... x_n$ be a random sample from an exponential distribution with p.d.f $f(x) = \theta e^{-\theta x} \; x > 0, \; \theta > 0$. Derive the B.C.R for testing $H_0: \theta = \theta_0$ against $H_1: \theta = \theta_1 (< \theta_0)$

4. Stating the assumptions describe student's t test for paired samples.

5. Explain Chi square test for testing the independence of attributes.

6. Describe the test of equality of variances of two independent normal populations with i) known means ii) unknown means.

7. For a 2x2 contingency table with cell frequencies a, b, c and d show that the chi-square test statistic for testing the hypothesis of independence is given by
$$\frac{N(ad-bc)^2}{(a+b)(a+c)(b+d)(c+d)}; N=a+b+c+d.$$

8. Derive Wald's SPRT for testing $H_0: \lambda = \lambda_0$ against $H_1: \lambda = \lambda_1$ $(> \lambda_0)$ where λ is the mean of a Poisson distribution.

9. Explain sign test for testing the median of a continuous population. Also give its large sample approximation.

10. Explain the procedure of testing the randomness of a given sample using run test.

PART – C

Answer any FOUR of the following.   (10x4=40)

11 a) Derive the most powerful test of size α for testing $H_0: \mu = \mu_0$, against   (5)
$H_1: \mu = \mu_1 (>\mu_0)$ where μ is the mean of a normal population with known variance σ_0^2.

b) Explain the likelihood ratio test procedure.   (5)

12. Let $x_1, x_2, \ldots x_m$ is a random sample from $N(\mu_1, \sigma_1^2)$ population. $y_1, y_2, \ldots y_n$ is a random sample from an independent $N(\mu_2, \sigma_2^2)$ population. Derive the likelihood ratio test statistic for testing $H_0: \sigma_1 = \sigma_2$ against $H_1: \sigma_1 \neq \sigma_2$ when μ_1 and μ_2 are unknown.

13. a) Explain Fisher's z transformation. How it is used to test $H_0: \rho = \rho_0$ (5)
where ρ is the population correlation coefficient.

b) Derive Brandt Snedecor formula for chi-square test statistic for testing   (5)
independence of attributes in a 2x k contingency table.

14. a) Explain the large sample test procedure for testing the equality of   (5)
proportions of two populations.

b) Write a note on Yates correction for continuity.   (5)

15. Derive SPRT for testing $H_0: \mu = \mu_0$ against $H_1: \mu = \mu_1 (> \mu_0)$ where μ_0 is the mean of a normal population with known variance σ_0^2. Also write down the equations of acceptance and rejection line.

16. Describe the median test. Derive the null distribution of the test statistic. Also give its large sample approximation.
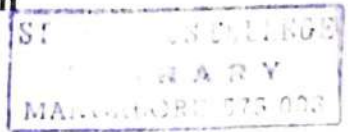
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(2014 batch onwards)

G. 507.4

Reg. No:

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

BOTANY
Plant Systematics and Commercial Botany

Time: 3 Hours

Max. Marks: 100

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

SECTION – A
I. Answer any <u>TEN</u> of the following in a few sentences each. (2x10=20)

1. Give any two significances of regional and national floras.
2. Who has introduced artificial system of classification? Give any two salient features of it.
3. Write botanical names of any two plant examples of the family Zingiberaceae.
4. What is stylopodium and mention the family in which it is characteristically found?
5. Define digital herbarium. Mention the significance.
6. What is characteristic inflorescence of Euphorbiaceae? Write any two features of it.
7. Define descendingly inbricate aestivation with a suitable example.
8. Mention the therapeutic uses of quinine.
9. Write the scientific name and economic importance of periwinkle.
10. Write the features of essential whorls in Annonaceae.
11. Write the characteristic features of gynoecium in Apocyanaceae.
12. Give the family, botanical name, part used and economic importance of Black cumin.

SECTION – B
II. Answer any <u>SIX</u> of the following.   (6x5=30)

1. Write a note on molecular taxonomy.
2. Give the scientific names of any five of the pulses and their economic importance.
3. Write the salient features of Asclepiadaceae.
4. Explain spadix inflorescence.
5. Give the outlines of Engler and Prantle system of classification.
6. Explain the wet method of extraction of coffee.
7. Distinguish between Malvaceae and Teliaceae with two examples for each.
8. Write notes on tendrils in Cucurbitaceae.

SECTION – C

(5x10=50)

III. **Answer any _FIVE_ of the following.**

1. Explain the characteristic features of Cruciferae and Mimosaceae with scientific names of any two economically important plants.
2. Describe the diagnostic characteristics of Solanaceae. Distinguish it from Convolvulaceae.
3. Give an account on any five oil yielding plants.
4. Give a detailed account on salient features of Bentham and Hooker's system of classification. Add a note on its merits and demerits.
5. Explain the characteristic features of Rutaceae and Anacardiaceae with scientific names of any two economically important plants.
6. Explain botanical gardens and arboratum. Add a note on their significance.
7. Give an account on the uses and extraction process of sugar and rubber.
8. Explain the characteristic features of Moraceae and Liliaceae with scientific names of any two economically important plants.

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G.508.4

Reg. No.:

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV – Degree Examination
April - 2018
ZOOLOGY
Cell & Molecular Biology And Genetics

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) Write any four differences between prokaryotes and eukaryotes.

b) What is bivalent? How it is formed?

c) Differentiate between malignant and benign tumours.

d) Write the chemical structure of thymine.

e) What is redundant DNA? Mention its significance.

f) What is lac-operon? Mention the genes associated.

g) What is erythroblastosis foetalis? how is it caused?

h) List any two characteristics of multiple alleles.

i) What is a dihybrid backcross? Give an example.

j) What is a linkage map?

k) Give two examples for holandric traits in man.

l) Mention any two differences between Edward's syndrome and Cri-du-chat syndrome.
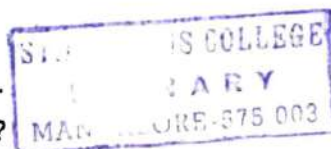
PART – B

Select ONE full question from each unit.

Unit I

II a) Explain the ultrastructure of chromosome based on nucleosome model.   (10)

b) Write notes on mitotic inhibitors.   (5)

c) What are oncogenes and tumour suppressor genes? Mention their respective roles.   (5)

OR

III a) Describe the structure and functions of any two cell organelles.   (10)

b) Give an account of biological carcinogens.   (5)

c) Enumerate the events that take place during mitotic interphase.   (5)

Unit II

IV a) Describe the process of DNA replication with suitable illustration.   (10)

b) Explain the fine structure of gene.   (5)

c) Enumerate the general properties of genetic code.   (5)

OR

V a) Give an account of the different forms of RNA.   **(10)**

b) What are split genes? Explain the mechanism of gene splicing.   **(5)**

c) Explain how base analogs would induce point mutations.   **(5)**

Unit III

VI a) What is dominant epistasis? Explain with an example.   **(10)**

b) Write short note on eye color pigments in *Drosophila*.   **(5)**

c) Explain the phenomenon of inheritance of yellow coat color in mice.   **(5)**

OR

VII a) State the law of independent assortment and illustrate it with   **(10)**
Mendel's experiments.

b) Explain duplicate genes with a suitable example.   **(5)**

c) A couple die together in an accident whose blood groups belonged to   **(5)**
AB and B. Soon a person with blood group O comes to claim their
property saying that he is their biological son. Work out and show
whether he is their real son or not.

Unit IV

VIII a) Explain sex linked inheritance with reference to hemophilia in   **(10)**
humans.

b) Write short note on amniocentesis.   **(5)**

c) Explain the mechanism of sex determination in heterogametic   **(5)**
females.

OR

IX a) Explain incomplete linkage in *Drosophila*.   **(10)**

b) Write short note on sex influenced traits.   **(5)**

c) Give an account of Turner's syndrome.   **(5)**

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(2014 onwards)

G 509.4

Reg. No.

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV- Degree Examination
April 2018
MICROBIOLOGY
Microbial Ecology and Environmental Microbiology

Time: 3 Hours   Max. Marks:100

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

PART – A

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

   a) Phylloplane

   b) Impingement

   c) Ground water

   d) Prebiotics

   e) Lotic habiitat

   f) Gravity slide

   g) Influenza virus

   h) Coliforms

   i) Septic tank

   j) Rhizophere

   k) Monotropoid mycorrhiza

   l) Viability staining

PART B

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

UNIT – I

2. a) Explain in detail about the structure and biota of lentic Habitat. Add a note on the factors affecting the Micro flora.

OR

2. b) Give a detailed account on rumen ecosystem.   (9)

2. c) Write a short note on probiotics.   (6)

UNIT – II

3. a) Explain in detail about indoor and outdoor microflora. Add a note on sources of microbes in air.

OR

3. b) Give an account on Diphtheria and Pneumonia.   (9)

3. c) Discuss in brief about ventilation and biological safety cabinets.   (6)

UNIT – III

4. a) Give an account on various bacterial water borne diseases.

OR

4. b) Explain the primary and secondary treatment of waste water.   (9)

4. c) Discuss the standard tests for quality of drinking water.   (6)

UNIT – IV

5. a) Explain the various positive interactions among soil micro organisms.

OR

5. b) Explain the methods used to measure microbial activities.   (9)

5. c) Write a note on Endomycorrhizae.   (6)

PART -C

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

6. a) Microbes of Human body and their significance.

   b) Functions of marine flora

   c) Anderson sampler

   d) Chlorination

   e) FISH

   f) Disposal of treated sewage and sludge.

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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) Name any one radio isotope and its role in the study of metabolism.

b) What is the fate of pyruvate in muscle?

c) Name the components of photosystem I.

d) What are uncouplers? Give one example.

e) Differentiate between glucogenic and ketogenic aminoacids.

f) What is ketosis?

g) Mention the role of RNase.

h) What is deamination? Give example.

i) Give the reaction of RNA with alkali.

j) Write the structure of Porphyrin ring.

k) Give any two physiological significance of bilirubin.

l) What is meant by photolysis of water? Where it occurs in plants?

PART – B

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

2. Explain the steps involved in glycogenolysis.

3. Briefly explain the important steps in gluconeogenesis.

4. Write a note on cyclic photophosphorylation.

5. Explain the role of inhibitors of ETC.

6. Give an outline of cholesterol biosynthesis.

7. Write a note on transamination reactions.

8. Discuss the colour reactions of nucleic acids.

9. Write the flow chart of biosynthesis of porphyrins.

PART -C

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

10. Describe glycolysis and its energetics.

11. Explain Pentose phosphate pathway and its physiological significance.

12. Give an account on β-oxidation of even number saturated fatty acids.

13. Explain the enzyme complexes of ETC with a neat diagram.

14. Describe Urea cycle and give its significance.

15. Explain the denovo synthesis of pyrimidines with schematic flow chart.

16. Explain TCA cycle.

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(2014 Batch onwards)

G.511.4

Reg. No.:

# St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester IV – Degree Examination
April - 2018
BIOTECHNOLOGY
Molecular Biology and Recombinant DNA Technology

Time: 3 Hours.

Max Marks: 100

PART –A

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

a) Define Muton.

b) What are transposons? Give two examples.

c) List the termination codons.

d) Define Conjugation.

e) Comment on Poly A tail.

f) Write a note on regulator genes and inducer genes.

g) Give two aims of gene cloning.

h) What are nucleases? Mention its functions.

i) Comment on Phagemids.

j) Expand IPTG.

k) What is an interferons? Give two uses.

l) Write a note on Trade Secret.
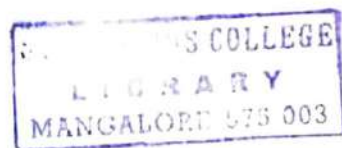
PART-B

Answer any SIX of the following.   (6X5=30)

2. Explain the structure of TMV.

3. Describe any two processes of DNA repair mechanisms.

4. Give an account of Holliday Model.

5. Explain the steps involved in post transcriptional modification in Eukaryotes.

6. Give a general account on the scope of recombinant DNA technology.

7. Explain the chemical methods of introduction of DNA into plant and animal cells.

8. Describe the steps involved in Western Blotting technique.

9. Write a note on recombinant vaccines.

PART-C

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

10. Describe DNA replication in prokaryotes.

11. Explain the structure of DNA.

12. Give an account of process of transcription in prokaryotes.

13. Explain the process of initiation and elongation in eukaryotic translation.

14. What are restriction enzymes? Add a note on its mechanism of action and nomenclature.

15. Explain the role of anion-exchange resin in DNA purification.

16. Give a detailed account on gene therapy. Add a note on its types.

17. Explain in detail the hazards and biosafety measures of recombinant DNA technology.

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(2016 Batch Onwards)

G 513.4

Reg. No. :

St Aloysius College (Autonomous)
Mangaluru
B.Sc. - SEMESTER IV – Degree Examination
April - 2018
ECONOMICS
## INTERNATIONAL TRADE AND PUBLIC FINANCE

Time: 3 hrs.

Max Marks: 100

PART - A

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

1. What are the characteristics of international trade?

2. Write a note on Absolute Cost Advantage Theory of International trade.

3. Explain the objectives of exchange control.

4. Distinguish between balance of trade and balance of payments.

5. Write a note on taxable capacity.

6. What are the objectives of fiscal policy?
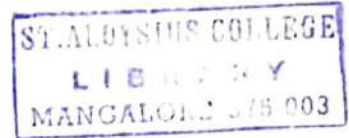
PART – B

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

7. Explain the different types of economic integration.

8. Describe the comparative cost theory of international trade.

9. Explain the factors determining terms of trade.

10. List out the causes of disequilibrium in the balance of payments.

11. What is GST? Explain the features of GST?

12. Explain the various methods of public debt redemption.

PART – C

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

13. Examine the arguments for and against the policy of protection.

14. Explain the organizational structure and functions of WTO.

15. What is public revenue? Explain the various sources of public revenue.

16. Define budget. Explain various classification of budget.

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G 701.4

Reg. No: ☐☐☐☐☐

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc./B.C.A. - Semester IV – Degree Examination
April - 2018

FOUNDATION COURSE IN HUMAN RIGHTS AND VALUE EDUCATION

Time: 3 Hours

Max. Marks: 100

PART – A
HUMAN RIGHTS

I. Answer all the following questions in three sentences each. Each question carries one mark: (1x5=5)

ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳನ್ನು ಮೂರು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ ಒಂದು ಅಂಕಗಳು.

1. Define human rights as stated by the Protection of Human Rights Act of 1993.

   1993ರ ಮಾನವ ಹಕ್ಕುಗಳ ರಕ್ಷಣಾ ಕಾಯಿದೆ ಪ್ರಕಾರ ಮಾನವ ಹಕ್ಕನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿರಿ.

2. Which day is observed as Human Rights Day?

   ಯಾವ ದಿನವನ್ನು ಮಾನವ ಹಕ್ಕುಗಳ ದಿನವೆಂದು ಆಚರಿಸಲಾಗುತ್ತದೆ?

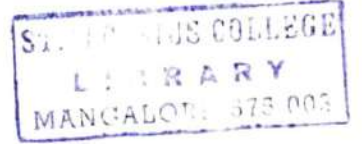3. Name the two covenants enumerated by the General Assembly of the UN.

   ವಿಶ್ವ ಸಂಸ್ಥೆಯ ಸಾಮಾನ್ಯ ಸಭೆಯ ಜಾರಿಗೆ ತಂದ ಎರಡು ಒಡಂಬಡಿಕೆಯನ್ನು ಹೆಸರಿಸಿರಿ.

4. Which day is celebrated as consumer's day in India?

   ಭಾರತದಲ್ಲಿ ಯಾವ ದಿನವನ್ನು ಗ್ರಾಹಕರ ದಿನವೆಂದು ಆಚರಿಸಲಾಗುತ್ತದೆ?

5. Who is the present chairman of NHRC?

   ರಾಷ್ಟ್ರೀಯ ಮಾನವ ಹಕ್ಕುಗಳ ಆಯೋಗದ ಪ್ರಸ್ತುತ ಅಧ್ಯಕ್ಷರಾರು?

II. Answer any FIVE questions in about a paragraph. Each question carries 3 marks: (3x5=15)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದು ಪ್ಯಾರದಷ್ಟು ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 3 ಅಂಕಗಳು.

6. In the Kerala Water Supply Department except few officials, various persons were appointed in different capacities, such as cleaners, pump operators, draftsman, drivers etc. as casual labourers on lesser wages through the employment exchange between 1981 and 1988. There were no promotions. Moreover some of the workers were terminated. In this regard several petitions were filed before the Supreme Court. [Jacob M Pathuparambli and others Vs. Kerala water authority [AIR 1990 sec 2228]. The Supreme court gave judgement and ordered in favour of, the petitioning workers.

   i) Do you think the judgement given by the Supreme Court is appropriate?

   ii) Do you think State government is just in appointing workers on daily wages and retain them without regularization of their services and pay fixation for years together? Give reasons.

   ಕೇರಳ ನೀರು ಸರಬರಾಜು ಇಲಾಖೆಯಲ್ಲಿ ಕೆಲವೊಂದು ಅಧಿಕಾರಿಗಳನ್ನು ಹೊರತು ಪಡಿಸಿ, ಚಾಲಕರು, ಶುಚಿಗೊಳಿಸುವವರು, ಪಂಪ್ ಆಪರೇಟರ್ ಮುಂತಾದ ಹುದ್ದೆಗಳಿಗೆ ಹಲವಾರು ಜನರನ್ನು ಆಯ್ಕೆ ಮಾಡಲಾಗಿತ್ತು. ಇವರ ಸೇಮಕಾತಿ ಸಾಮಾನ್ಯ ಕೆಲಸಗಾರರಾಗಿ ಅತೀ ಕಡಿಮೆ ವೇತನದ ಆಧಾರದ ಮೇರೆಗೆ 1981–1988ರ ಉದ್ಯೋಗ ವಿನಿಮಯ ಕೇಂದ್ರದ ಮೂಲಕ ಆಗಿತ್ತು. ಇದಲ್ಲದೆ ಈ ಕೆಲಸಗಾರರಿಗೆ ಸೇವಾ ಭದ್ರಿಯರಲ್ಲಿ ಹಾಗೂ ಆವರನ್ನು ಕೆಲಸದಿಂದ ತೆಗೆದು ಹಾಕಲಾಗುತ್ತಿತ್ತು. (ಸೇವಾ ಭದ್ರತೆಯರಲ್ಲಿ) ಇದರ ವಿರುದ್ಧವಾಗಿ ಕೆಲವೊಂದು ಕೆಲಸಗಾರರು ಸರ್ವೋಚ್ಚ ನ್ಯಾಯಾಲಯದಲ್ಲಿ ದಾವೆಯನ್ನು ಹೂಡಿದರು. ಸರ್ವೋಚ್ಚ ನ್ಯಾಯಾಲಯ ಈ ದಾವೆಯಲ್ಲಿ ಕೆಲಸಗಾರ ಪರವಾಗಿ ತೀರ್ಪನ್ನು ನೀಡಿತು.

ಆ) ಸರ್ವೋಚ್ಚ ನ್ಯಾಯಲಯವು ಕೊಟ್ಟಿರುವ ಈ ತೀರ್ಪನ್ನು ನೀವು ಮಾನ್ಯವೆಂದು ಪರಿಗಣಿಸುತ್ತೀರಾ?

ಆ) ರಾಜ್ಯ ಸರಕಾರವು ನೌಕರರ ಆಯ್ಕೆಯನ್ನು ದಿನಗೂಲಿ ಆಧಾರದ ಮೇರೆಗೆ ಮಾಡಬಹುದೇ ಹಾಗೂ ಆವರ

ಸೇವೆಯನ್ನು ಖಾಯಂಗೊಳಿಸದೆ ವೇತನವನ್ನು ನಿಗದಿಪಡಿಸದೆ ವರ್ಷಗಟ್ಟಲೆ ಸೇವೆಯಲ್ಲಿಟ್ಟು

ಕೊಳ್ಳುವುದು ನ್ಯಾಯವೇ? ಕಾರಣ ಕೊಡಿ.

7. The State Government of Andhra Pradesh vacated forcefully the residents of Bhimrao Bada, with an intention to construct a building for Congress party. The residents of Bhimrao Bada, the opposition party and the general public opposed the action of the Governments. They approached the High Court of Andhra Pradesh. The High Court gave judgement in favour of the residents of Bhimrao Bada.

i) Do you think the Government of Andhra Pradesh is justified in its action? Give reasons.

ii) Identify the human rights violated in this case.

ಆಂಧ್ರ ಪ್ರದೇಶ ಸರಕಾರವು ಕಾಂಗ್ರೆಸ್ ಪಕ್ಷಕ್ಕೆ ಕಟ್ಟಡವನ್ನು ಕಟ್ಟುವ ಸಲುವಾಗಿ ಭೀಮರಾವ್ ಬಾಡ ಎಂಬ ಪ್ರದೇಶದ ನಿವಾಸಿಗಳನ್ನು ಬಲವಂತ ಪೂರ್ವಕವಾಗಿ ತೆರವುಗೊಳಿಸಿತು. ಸರಕಾರದ ಈ ನಿಲುವನ್ನು ಆ ಪ್ರದೇಶದ ನಿವಾಸಿಗಳು, ವಿರೋಧ ಪಕ್ಷದವರು ಹಾಗೂ ಸಾರ್ವಜನಿಕರು ವಿರೋಧಿಸಿದ್ದರಲ್ಲದೆ, ಆಂಧ್ರ ಪ್ರದೇಶ ಉಚ್ಚ ನ್ಯಾಯಾಲಯದಲ್ಲಿ ದಾವೆಯನ್ನು ಹೂಡಿದರು. ಉಚ್ಚ ನ್ಯಾಯಾಲಯವು ಇದನ್ನು ಪರಿಶೀಲಿಸುತ್ತ ಭೀಮರಾವ್ ಬಾಡದ ನಿವಾಸಿಗಳ ಪರವಾಗಿ ತೀರ್ಪನ್ನು ನೀಡಿತು.

ಆ) ಆಂಧ್ರ ಪ್ರದೇಶ ಸರಕಾರದ ಈ ಕೃತ್ಯವನ್ನು ನೀವು ಅನುಮೋದಿಸುತ್ತೀರಾ? ಕಾರಣ ಕೊಡಿ.

ಆ) ಯಾವ ಮಾನವ ಹಕ್ಕು ಇಲ್ಲಿ ಉಲ್ಲಂಘನೆಯಾಗಿದೆ?

8. Explain the rights of transgender in India.

ಭಾರತದಲ್ಲಿ ತೃತೀಯ ಲಿಂಗಿಗಳ ಹಕ್ಕುಗಳನ್ನು ವಿವರಿಸಿರಿ.

9. Explain the classification of Human Rights.

ಮಾನವ ಹಕ್ಕುಗಳ ವರ್ಗೀಕರಣವನ್ನು ಚರ್ಚಿಸಿ ಬರೆಯಿರಿ.

10. Mention any four functions of PUDR.

PUDRನ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಕಾರ್ಯಗಳನ್ನು ಬರೆಯಿರಿ.

11. Define unorganized labourers. Mention any two problems faced by unorganized labourers.

ಅಸಂಘಟಿತ ಕಾರ್ಮಿಕರು ಯಾರು? ವ್ಯಾಖ್ಯಾನಿಸಿರಿ. ಆವರು ಎದುರಿಸುತ್ತಿರುವ ಯಾವುದಾದರೂ ಎರಡು ಸಮಸ್ಯೆಗಳನ್ನು ತಿಳಿಸಿರಿ.

III. Answer any **FIVE** questions in about 10 sentences each. Each question carries 5 marks:
(5x5=25)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ 10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 5 ಅಂಕಗಳು.

12. Explain the nature of human rights.

ಮಾನವ ಹಕ್ಕುಗಳ ಸ್ವರೂಪವನ್ನು ವಿವರಿಸಿ.

13. Write a short note on consumer rights.

ಗ್ರಾಹಕ ಹಕ್ಕುಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

14. Discuss briefly the status of Dalits in India.

ಭಾರತದಲ್ಲಿನ ದಲಿತರ ಸ್ಥಾನಮಾನದ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಚರ್ಚಿಸಿ ಬರೆಯಿರಿ.

15. What is meant by indigenous population? Explain the problems faced by them.

ಸ್ಥಳೀಯ ಬುಡಕಟ್ಟು ಜನಾಂಗ ಎಂದರೇನು? ಆವರು ಎದುರಿಸುವ ಸಮಸ್ಯೆಗಳನ್ನು ವಿವರಿಸಿ.

16. Write a short note on racial discrimination.

ವರ್ಣಭೇದ ನೀತಿಯ ಬಗ್ಗೆ ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

17. Explain the role of students in promoting human rights.
    ಮಾನವ ಹಕ್ಕುಗಳ ರಕ್ಷಣೆಯಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿರಿ.

18. Who are refugees? Briefly explain their rights.
    ನಿರಾಶ್ರಿತರೆಂದರೆ ಯಾರು? ಅವರ ಹಕ್ಕುಗಳ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿರಿ.

IV. Answer any **ONE** question in about 20 sentences each. Each question carries 10 marks: (10x1=10)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಒಂದು</u> ಪ್ರಶ್ನೆಯನ್ನು 20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 10 ಅಂಕಗಳು.

19. Explain the origin and development of human rights.
    ಮಾನವ ಹಕ್ಕುಗಳ ಉಗಮ ಹಾಗೂ ಬೆಳವಣಿಗೆಯ ಬಗ್ಗೆ ವಿವರಿಸಿರಿ.

20. Examine the powers and functions of Amnesty International.
    ಅಂತರಾಷ್ಟ್ರೀಯ ಕ್ಷಮದಾನ ಸಂಸ್ಥೆಯ ಅಧಿಕಾರ ಹಾಗೂ ಕಾರ್ಯಗಳನ್ನು ಪರಿಶೀಲಿಸಿ ಬರೆಯಿರಿ.

V. Answer any **ONE** question in about 40 sentences each. Each question carries 15 marks: (15x1=15)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಒಂದು</u> ಪ್ರಶ್ನೆಯನ್ನು 40 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 15 ಅಂಕಗಳು.

21. Discuss the composition, powers and functions of NHRC.
    ರಾಷ್ಟ್ರೀಯ ಮಾನವ ಹಕ್ಕುಗಳ ಆಯೋಗದ ರಚನೆ, ಅಧಿಕಾರ ಹಾಗೂ ಕಾರ್ಯಗಳನ್ನು ಚರ್ಚಿಸಿ ಬರೆಯಿರಿ.

22. Explain the remedies against violation of human rights in India.
    ಮಾನವ ಹಕ್ಕುಗಳ ಉಲ್ಲಂಘನೆ ವಿರುದ್ಧ ಲಭ್ಯವಿರುವ ಪರಿಹಾರೋಪಾಯಗಳನ್ನು ವಿವರಿಸಿರಿ.

PART – B

(VALUE EDUCATION)

VI. Answer any **FOUR** questions in about 8-10 sentences. Each question carries **FIVE** marks: (5x4=20)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ನಾಲ್ಕು</u> ಪ್ರಶ್ನೆಗಳನ್ನು 8-10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ 5 ಅಂಕಗಳು.

23. What is meant by abortion? What are the post-abortion syndromes?
   ಗರ್ಭಪಾತ ಎಂದರೇನು? ಗರ್ಭಪಾತದ ನಂತರ ಕಂಡು ಬರುವ ಲಕ್ಷಣಗಳಾವುವು?

24. What is female foeticide? What are the reasons for female foeticide?
    ಹೆಣ್ಣು ಭ್ರೂಣ ಹತ್ಯೆಯೆಂದರೇನು? ಹೆಣ್ಣು ಭ್ರೂಣ ಹತ್ಯೆಗೆ ಕಾರಣಗಳೇನು?

25. Explain Mahatma Gandhi's views on women empowerment.
    ಮಹಿಳಾ ಸಬಲೀಕರಣದ ಬಗ್ಗೆ ಮಹಾತ್ಮ ಗಾಂಧೀಜಿಯವರ ಧೋರಣೆಗಳನ್ನು ವಿವರಿಸಿರಿ.

26. Write a short note on Euthanasia.
    ದಯಾಮರಣದ ಬಗ್ಗೆ ಒಂದು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

27. What are the early signs of mental illness?
    ಮಾನಸಿಕ ಅನಾರೋಗ್ಯದ ಪೂರ್ವ ಚಿಹ್ನೆಗಳಾವುವು?

28. Define suicide. What are the two main reasons for suicide?
    ಆತ್ಮಹತ್ಯೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿರಿ ಹಾಗೂ ಆದರ ಎರಡು ಕಾರಣಗಳೇನು?
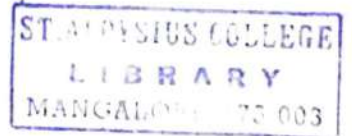
VII. Answer any **ONE** question in about 20 sentences. The Question carries 10 marks: (10x1=10)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಒಂದು</u> ಪ್ರಶ್ನೆಯನ್ನು 20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. ಪ್ರಶ್ನೆಗೆ 10 ಅಂಕಗಳು.

29. What is stress? What are the causes and symptoms of stress?
    ಒತ್ತಡ ಎಂದರೇನು? ಒತ್ತಡಕ್ಕಿರುವ ಕಾರಣಗಳು ಹಾಗೂ ಚಿಹ್ನೆಗಳಾವುವು?

30. Explain the commandments advocated for conquering depression.
    ಖಿನ್ನತೆಯ ಮೇಲೆ ನಿಯಂತ್ರಣ ಸಾಧಿಸಲು ಪ್ರತಿಪಾದಿಸಿದ ಮಾರ್ಗೋಪಾಯಗಳನ್ನು ವಿವರಿಸಿರಿ.

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