

(2021 Batch Onwards)

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

November/December - 2023

PHYSICS

MECHANICS AND PROPERTIES OF MATTER

Time: 2½ hrs.

Max Marks: 60

SECTION –A

Answer any **FOUR** of the following.

(4x2=8)

1. a) Define the term "centripetal acceleration" and provide a brief equation that represents it.
- b) Calculate the mass per unit area of a disc of radius 7 cm and mass 2.5 kg.
- c) What is a pseudo force? Give an example.
- d) State and explain Hooke's law.
- e) Define i)streamline flow and ii)turbulent flow.
- f) Define surface tension. Why antiseptics have low surface tension?

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SECTION – B

Answer any **ONE FULL QUESTION** from each unit.

(4x10=40)

UNIT-I

- 2.a) Give the law of conservation of angular momentum. How is angular momentum conserved in the absence of an external torque. (6)
- b) Explain Kepler's first law of planetary motion. (4)
- 3.a) Derive a formula for the time it takes for a spiral spring to complete one oscillation. (6)
- b) What are the uses of dimensional equations. (4)

UNIT-II

- 4.a) Derive an equation to calculate the mass of a flywheel for an axis passing through its center of gravity. (6)
- b) State and explain parallel axis theorem. (4)
- 5.a) Explain the photon -box thought experiment. (6)
- b) Obtain an expression for length contraction. (4)

UNIT-III

- 6.a) With a neat labelled graph of stress verses strain explain elastic and non elastic characteristics of materials. (6)
- b) Define and explain i)Longitudinal strain and ii)Volume strain (4)
- 7.a) Derive the relation between young's modulus q , rigidity modulus η and bulk modulus k . (6)
- b) Derive an expression for the work done in twisting a wire. (4)

Contd...2

UNIT-IV

- 8.a) Define surface tension and surface energy. Show that the surface energy is numerically equal to the surface tension per unit area. (6)
- b) Give the molecular theory of surface tension. (4)
- 9.a) Derive Poiseuille's formula to determine the volume of liquid flow in a capillary tube and hence give the expression for coefficient of viscosity of the liquid. (6)
- b) State and explain equation of continuity. (4)

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SECTION -C

Answer any **THREE** from the following. (3x4=12)

10. With a wooden ruler, you measure the length of a rectangular piece of sheet metal to be 12 mm. With micrometer calipers, you measure the width of the rectangle to be 5.98 mm. Use the correct number of significant figures: What is (a) the area of the rectangle (b) the perimeter of the rectangle (c) the difference between the length and the width.
11. The length of a spaceship is measured to be exactly half its actual length. Calculate the speed of the spaceship.
12. A steel wire of diameter 4.2×10^{-4} m and length 2.4m extends by 0.12×10^{-3} m under a load of 2kg. Calculate young's modulus of the material of the wire.
13. Water rises in a capillary tube to a height of 2×10^{-2} m. In another capillary tube whose radius is one third of the first, how much the water will rise?

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
November/December - 2023

CHEMISTRY – I
ANALYTICAL AND ORGANIC CHEMISTRY I

Time: 2½ hrs.

Max Marks: 60

Instructions: 1. Write the question number and subdivision clearly.

2. Write equations and diagrams wherever necessary.

3. Answer Part – A in first two pages of the answer book.

PART - A

Answer ALL the following questions in 1 to 3 sentences. (1×8=8)

1. a) Name any two types of distillation techniques.
- b) Give an example for adsorption chromatography.
- c) What are the ions responsible for total hardness of water?
- d) List two disadvantages of gravimetric analysis.
- e) What are the products obtained on heating a quaternary ammonium hydroxide?
- f) Aniline is a weaker base. Give reason.
- g) Write the structure of 1, 3-butadiene.
- h) Give an example for aryl chloride.

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PART - B

Answer any EIGHT of the following in 3 to 5 sentences. (3×8=24)

2. (i) Explain with examples: (a) micro analysis (b) semi-micro analysis.
- (ii) Calculate the potential when $[Ag^+] = 0.02 \text{ M}$ and $[Cd^{2+}] = 0.05 \text{ M}$ for the following reaction at 25 °C.
$$Cd (s) + 2Ag^+ (aq) \rightleftharpoons 2Ag (s) + Cd^{2+} (aq); E^0 = 1.2026 \text{ V}$$
- (iii) Categorise determinate errors.
- (iv) What is the molarity of a solution obtained by dissolving 211 g sodium hydrogen carbonate ($NaHCO_3$) in 10.0 L solution?
- (v) Give the synthesis of an unsaturated hydrocarbon from alkyl halide.
- (vi) The following replicate measurements were obtained during titrimetric analysis:
4.8, 6.8, 6.5, 6.4. Apply Q test (Given $Q_{crit} = 0.765$).
- (vii) Explain sp^3 hybridisation with an example.
- (viii) How does -OH group show ortho para directing property? Justify.
- (ix) Explain the mechanism for nitration of benzene.
- (x) How do you obtain methyl alcohol from methyl chloride? Give the mechanism.

Contd...2

PART - C**Answer any SEVEN of the following questions.****(4×7=28)**

3. What is the difference between partition coefficient and distribution coefficient?
4. Explain the titration of a strong acid with weak base with the help of a titration curve.
5. Compare and contrast the working principles of column chromatography with paper chromatography.
6. What is a primary standard? Give any 4 characteristics.
7. Discuss the stability of primary, secondary and tertiary carbocations by hyperconjugation effect.
8. What are singlet and triplet carbenes? Explain.
9. Explain Diels-Alder reaction with an example each.
10. How do you convert benzene diazonium chloride to phenol? Give the mechanism.
11. Give the mechanism for addition of HBr to propene.

ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU

B.Sc SEMESTER I - DEGREE EXAMINATION

November / December - 2023

MATHEMATICS - I

NUMBER THEORY - I, ALGEBRA - I AND CALCULUS - I

Time : 2 ½ Hours

Max. Marks : 60

PART - AAnswer any SIX of the following .

(6×2=12)

1. If p is a prime and $p|ab$ then prove that $p|a$ or $p|b$.
2. Without performing the division determine whether 149235678 is divisible by 9 or 11.
3. Define unit matrix. Give an example of a unit matrix of order 3.
4. Find the rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 0 & 2 & 2 \end{bmatrix}$.
5. Plot the points having the given set of polar coordinates $(4, \frac{\pi}{2})$.
6. Find the Radius of Curvature at any point for $s = c \log \sec \psi$.
7. State Lagranges Mean Value Theorem.
8. What is Relative Maxima and Relative Minima?

PART - BUNIT - IAnswer any TWO of the following . ST ALOYSIUS COLLEGE LIBRARY
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(2×6=12)

1. Solve the simultaneous congruence $x \equiv 2 \pmod{3}$,
 $x \equiv 3 \pmod{5}$, $x \equiv 2 \pmod{7}$.
2. i. Find $\gcd(49, 350)$. (2)
ii. Use the Euclidean Algorithm and obtain the integers x and y for
 $\gcd(24, 138) = 24x + 138y$. (4)
3. If $ca \equiv cb \pmod{n}$, then prove that $a \equiv b \pmod{n/d}$, where
 $d = \gcd(c, n)$.

Contd...2

UNIT - IIAnswer any **TWO** of the following .**(2x6=12)**

1. Using the characteristic equation of $A = \begin{bmatrix} 1 & 2 & 0 \\ 2 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$, find A^{-1} and A^{-2} .

2. Find the solution of the system:

$$x_1 - 2x_2 + x_3 = 0$$

$$x_1 - 2x_2 - x_3 = 0$$

$$2x_1 - 4x_2 - 5x_3 = 0$$

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3. Express $\begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 3 \\ 1 & 4 & 9 \end{bmatrix}$ as the sum of symmetric and skew symmetric matrix.

UNIT - IIIAnswer any **TWO** of the following .**(2x6=12)**

- Find $\frac{ds}{dx}$ for the curve $y = \log \frac{e^x - 1}{e^x + 1}$.
- Determine the Pedal equation of a curve whose Cartesian equation is given.
- Trace the curve $r = a(1 + \cos \theta)$.

UNIT - IVAnswer any **TWO** of the following .**(2x6=12)**

- Evaluate the limit of the function if it exists;
 $\lim_{x \rightarrow 0} \frac{1}{x^2} - \frac{1}{x^2 \sec x}$.
- State and prove Lagrange's mean value theorem.
- Verify the hypothesis of Rolle's Theorem for the function $f(x) = x^2 - 4x + 3$, $x \in [1, 3]$ and find a suitable value for c that satisfies the conclusion of Rolle's Theorem.

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**St Aloysius College (Autonomous)
Mangaluru**

**B.Sc. Semester I – Degree Examination
November/December -2023**

ELECTRONICS

FUNDAMENTALS OF ANALOG AND DIGITAL ELECTRONICS

Time: 2 ½ hrs.

Max Marks: 60

Note: This question paper has TWO sections- SECTION A AND SECTION B. Answer both the sections.

SECTION -A

1. Choose the correct answer from the choices given at the end of each question and write the correct answer. (6x1=6)

- i) According to Thevenin's Theorem, any two terminal bilateral linear DC circuits can be replaced by an equivalent circuit consisting of _____.
 - a) a voltage source in parallel with a resistor
 - b) a current source and a series resistor
 - c) a voltage source in series with a resistor
 - d) a current source and a parallel resistor

- ii) The internal resistance of an ideal voltage source is _____.
 - a) zero
 - b) infinity
 - c) very low
 - d) very high

iii) The expression for the truth table given below in POS form is given by_____.

- a) $F = (\bar{A}\bar{B}) + (AB)$.
- b) $F = (A + \bar{B}).(\bar{A} + \bar{B})$.
- c) $F = \sum m (1,2)$
- d) $F = \prod M (1,2)$

A	B	F
0	0	1
0	1	0
1	0	1
1	1	0

- iv) Output frequency of full wave rectifier in terms of input frequency f_i is -----.

- a) f_i
- b) $2 f_i$
- c) $3 f_i$
- d) $4 f_i$

v) A transistor has -----junctions.

- a) 1
- b) 2
- c) 3
- d) 4

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vi) -----is one's complement of the binary number 10101010.

- a) 01010110
- b) 01010101
- c) 11110000
- d) 10101010

2. Answer any SIX questions:

(6x1=6)

- i) State ohm's law.
- ii) Define Transconductance of a FET.
- iii) Give the full form of POS.
- iv) Write the expression for the impedance of an RC circuit.
- v) Define PIV of a rectifier.
- vi) Define transistor.
- vii) Define radix of a number system.
- viii) Write the dual theorem of $a+a=a$.

Contd...2

3. Answer any SIX questions:**(6x2=12)**

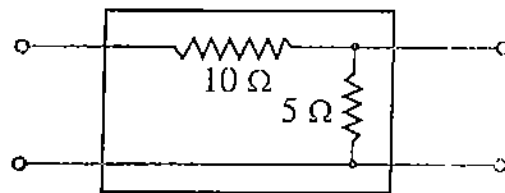
- i) State Voltage divider rule.
- ii) Write the NAND-NAND logic circuit for the following Boolean equation,

$$Y(P, Q, R) = (P\bar{Q}R) + (PQ) + (Q\bar{R})$$
- iii) A parallel combination of resistors 10Ω and 20Ω is connected in series with a 30Ω resistor. This whole combination is connected to $10V$ source. Calculate the voltage developed in 30Ω resistor.
- iv) Define the amplification factor in the JFET and hence give the equation for it.
- v) Calculate the current limiting resistor to be used in series with a germanium diode to limit the current through it to $50mA$, when connected to $16V$ power supply.
- vi) Draw the labelled diagram of characteristics of a Zener diode.
- vii) Explain the structure of an npn transistor.
- viii) Realize OR gate using NAND gates only.

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SECTION- B**4. Answer any FOUR of the following.****(4x4=16)**

- i) With necessary theory obtain the expression for the instantaneous current in a RC circuit applied with a source of alternating emf.
- ii) Find the h parameters for the following circuit



- iii) Write the canonical form of SOP and POS, using truth table

$$Y(A,B,C) = A\bar{B} + BC + A\bar{C}$$
- iv) With necessary diagrams explain the action of a half wave rectifier. Draw its input and output waveforms.
- v) Explain the procedure to subtract binary numbers using one's complement system.
- vi) With necessary circuit diagram explain the action of a transistor as a switch.

Answer any TWO full questions:**(10 x 2=20)**

- 5 a) State and Prove Superposition theorem.
- b) Simplify $F(A, B, C, D) = \sum m(1, 3, 4, 6, 8, 9, 11, 13, 15) + \sum d(0, 2, 14)$ using K map and hence write the NAND -NAND logic circuit for the simplified equation.
- 6.a) State and prove Maximum Power Transfer Theorem.
- b) State the postulates of Boolean Algebra.
- 7.a) Using necessary theory obtain the small signal h-parameter model of a transistor in CE configuration.
- b) State and prove De Morgan's theorems.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

November/December - 2023

COMPUTER SCIENCE

COMPUTER FUNDAMENTALS AND PROGRAMMING IN C

Max Marks: 60

Time: 2½ Hours.

PART – A

(6x2=12)

1. **Answer any SIX of the following.**

- List any characteristics of third generation computers.
- Define flowchart and an algorithm.
- Write any two important features of C program.
- What are symbolic constants? Give one example.
- What is an array? How do you declare one dimensional array?
- Give any one example showing the declaration and initialization of a string variable.
- Write the need for using user defined functions in C.
- Compare structure and union.

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PART – B

Answer any ONE FULL question from each unit.

(4x12=48)

UNIT - I

- What is a computer? Explain different characteristics of computers. **(4)**
 - Explain a) High Level and b) assembly level programming. **(4)**
 - Write the structure of C program with suitable example. **(4)**
- Explain following coding schemes a) ASCII b) Unicode. **(4)**
 - Explain different category of software. **(4)**
 - Write a note on program development life cycle. **(4)**

UNIT – II

- Explain relational and logical operators available in C. **(4)**
 - Distinguish between formatted and unformatted I/O functions with suitable example. **(4)**
 - Explain the following a) Keywords b) Escape Sequences. **(4)**
- Explain the basic data types supported in C. **(4)**
 - What are constants? How are they classified? Give examples for each. **(4)**
 - Explain the ternary operator with example. **(4)**

UNIT – III

- What is looping? Explain entry controlled looping statement in C. **(4)**
 - What is an array? Explain initialization and declaration of 2-D array with syntax and example. **(4)**

Contd...2

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- c) Explain following string handling functions with an example for each. (4)
 a) strcpy() b) strcmp()
7. a) Explain if statement with syntax and example. (4)
 b) Write the significance of following (4)
 a) exit () b)break() c) goto
- c) Write a note on following character handling functions in C (4)
 a) toupper() b) tolower() c) isalpha() d) isdigit()

UNIT – IV

8. a) What is structure? With an example explain how the members of a structure are accessed. (4)
- b) Explain declaring a user defined functions and calling functions with suitable example. (4)
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- c) What are pointers? Explain how do you declare and initialize pointers in C (4)
9. a) Write a function program to find GCD of two numbers. (4)
 b) Write the advantages and disadvantages of using pointers. (4)
 c) Write a note on union. (4)

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. - Semester I
November/December - 2023
STATISTICS - I
DESCRIPTIVE STATISTICS

Time: 2 1/2 Hours.

Max Marks: 60

Note: Answer all parts

PART - A

- I. Answer any FIVE of the following:** (2x5=10)
1. Explain Karl-Pearson's measure of association.
 2. Write any two differences between time series data and cross sectional data.
 3. Write any two merits of mode.
 4. What do you mean by curve fitting?
 5. What do you mean by rank correlation?
 6. Mention any two properties of regression line.
 7. Give the formula of Yule's coefficient of association.

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PART - B

- II. Answer any FIVE of the following.** (10x5=50)
8. a) Write the limitations of statistics.
b) List and briefly explain the different types of sampling.
 9. a) Derive the formula of Median for continuous distribution.
b) State the properties of standard deviation.
 10. a) What is zero skewness? Write any four properties of zero skewness.
b) What is negative skewness? Write any four properties of negative skewness.
 11. a) Find mean and variance of first n natural numbers.
b) Find the arithmetic mean of variable takes the values 1,2,...,n with respective frequencies 1,2,...,n.
 12. a) The variables X and Y are uncorrelated by the equation aX+bY+c=0. Show that the correlation between them is -1 if the signs of a and b are alike and +1 if they are different.
b) State the properties of regression coefficients and prove any one of them.
 13. Derive the formula for rank correlation coefficient.
 14. If $\delta = (AB) - (AB)_0$, then with usual notations show that

$$\delta = \frac{(B)(\beta) \left[\frac{(AB)}{(B)} - \frac{(A\beta)}{(\beta)} \right]}{N} = \frac{(A)(\alpha) \left[\frac{(AB)}{(A)} - \frac{(\alpha B)}{(\alpha)} \right]}{N}$$

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ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU

B.Sc. Semester I - Degree Examination

November/December - 2023

BOTANY - I

MICROBIAL DIVERSITY AND TECHNOLOGY

Max. Marks : 60

Time : 2 ½ Hours

Note: i) Answer all the sections.

ii) Draw diagrams wherever necessary.

SECTION - A

I Answer any FIVE of the following.

(5x2=10)

1. Name any four scientists who contributed for the development in microbiology.
2. Give any two examples for food borne microbes.
3. What are bacterial viruses?
4. What is the significance of death phase.
5. Define organotrophs. Give an example.
6. What is ITCC?
7. How do you identify pycnidiospores ?
8. What are coprophilous fungi ?

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SECTION - B

II Answer any SIX of the following.

(6x5=30)

1. Explain the role of stains involved in gram staining technique.
2. Electron microscopes are superior than conventional microscopes. Justify.
3. Answer the following
 - a) Photoautotrophic bacteria
 - b) Organotrophic bacteria.
4. Answer the following
 - a) Sound wave as an effective sterilisation agent
 - b) Red Flame sterilisation

Contd...2

5. 'Lichens are symbiotic'. Justify.
6. Describe in brief mycoplasmas.
7. Write the causal organism, symptoms and control measures of blast disease of rice.
8. What are prions? Add a note on the diseases caused by them.

SECTION - C

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

(2x10=20)

1. Explain the lifecycle of *Puccinia* in secondary host.
2. List out the contributions of Dmitri Ivoanowski and Paul Ehrlich in the field of microbiology.
3. Explain how selective media can help you to identify and select a bacterial species with an example.
4. Explain the sexual method of reproduction in bacteria.

(2021 Batch onwards)

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St Aloysius College (Autonomous), Mangaluru

B.Sc. Semester I – Degree Examination

November/December - 2023

ZOOLOGY-I

Cytology, Genetics and Infectious Diseases

Time: 2½ Hours.

Max Marks: 60

- Note:** 1. Answer any **ten** questions from Part-A, any **four** questions from Part-B and any **two** questions from part-C.
2. Draw diagrams wherever necessary.

PART – A

I. Answer any TEN of the following.

(10X2=20)

- Briefly explain Cell theory.
- Differentiate Prokaryotic cell from Eukaryotic cell.
- Name the bonds that stabilize double helix model of DNA.
- Differentiate nucleosome and chromatosome.
- Name any two species which shows environmental sex determination (ESD).
- Define sex-influenced traits and provide an example.
- Define pathogenic organisms and provide two examples.
- List two examples of structural chromosomal anomalies in humans.
- Draw a neat labeled diagram of Peroxisome.
- Write the components of nuclear envelope.
- Give two examples for epistasis.
- Name any two bacterial diseases and the causative agents.

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PART – B

II. Answer any FOUR of the following questions.

(4X5=20)

- Give a Brief note on ribosomes.
- With relevant examples explain Penetrance and expressivity.
- Compare and contrast cytokinesis in animal and plant cells.
- Compare and contrast X-linked dominance and autosomal dominance in terms of inheritance patterns in males and females.
- Explain the significance of pedigree analysis in assessing the risk of genetic disorders and making informed reproductive choices.
- Write a note on the electron transport system.

PART – C

III. Answer any TWO of the following.

(2X10=20)

- With a neat labeled diagram explain co-Translation Translocation.
- Elucidate on cell signalling with respect to cAMP pathway.
- Explain multiple allelism in blood group with antigens and antibodies.
- Give an explanatory note on causes, symptoms and control of giardia.

St Aloysius College (Autonomous)

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B.Sc. Semester I – Degree Examination

November / December - 2023

MICROBIOLOGY

GENERAL MICROBIOLOGY

Time: 2½ Hours.

Max Marks: 60

**Instructions: Answer all the three sections – A, B and C
Draw Diagrams wherever necessary.**

SECTION– A

1. **Define/Answer any TEN of the following:** **(2x10=20)**
- a) Expand SEM.
 - b) Who adopted the use of agar-agar as a microbial media solidifying agent? Why?
 - c) Why is serial dilution done while counting viable bacteria by SPC.
 - d) List the differential staining techniques.
 - e) Mention the composition of MacConkey Media.
 - f) In which phase of the growth does the bacterial population show the highest metabolic activity?
 - g) Give two examples for endospore forming bacteria
 - h) Define binary fission.
 - i) Describe any two scopes of Medical microbiology.
 - j) Define simple staining.
 - k) Name any two methods of attaining synchronous growth in bacterial population.
 - l) Name any two bacilli.

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SECTION- B

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

- 2. Differentiate between a prokaryotic and eukaryotic cell.
- 3. Describe how spectrometry can be used to determine Microbial growth
- 4. Bacterial pili and fimbriae.
- 5. Describe the discovery and development of penicillin.
- 6. Describe any two methods of culturing bacteria.
- 7. Outline Pasteur's swan neck flask experiment.

SECTION- C

Answer any TWO of the following. **(10x2=20)**

- 8. Define Sterilization. Discuss the chemical methods of sterilization.
- 9. Explain the Principle and technique of TEM.
- 10. Illustrate the use of serial dilution and spread plate method for enumerating bacteria.
- 11. Explain the ultrastructure of a bacterial cell with a neat labeled diagram.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester I – Degree Examination

November/December - 2023

BIOCHEMISTRY - I

CHEMICAL FOUNDATIONS OF BIOCHEMISTRY - I

Time: 2½ Hours

Max. Marks: 60

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

PART – A

1. Answer any **FIVE** of the following.

(2×5=10)

- What are derived units? Give example.
- What is mili and deca?
- Mention the ionic bond forming compounds.
- Illustrate the formula of magnetic quantum number.
- Differentiate hypo and hypertonic solutions.
- Give the SI unit for second order reaction.

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PART – B

Answer any **FOUR** of the following.

(5×4=20)

- a) Calculate the molarity of 0.4N HCl and b) Explain Dalton's concept.
- Differentiate between molecularity and order of reaction.
- Explain Hund's rule of maximum multiplicity & illustrate stability of half filled & completely filled orbitals.
- State laws thermodynamics & give examples.
- Write a note on bicarbonate buffer system.

PART – C

Answer any **THREE** of the following:

(10×3=30)

- Water is a fluid of life give reasons. Evaluate special properties of water.
- Explain titration curve of an amino acid.
- Explain the construction of standard hydrogen electrode and add a note on the significance of redox potential.
- Explain future and scope of Biochemistry.

(2021 batch onwards)

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**St Aloysius College (Autonomous)
Mangaluru**

B.Sc. Semester I – Degree Examination

November/December -2023

BIOTECHNOLOGY - I

CELL BIOLOGY AND GENETICS

Time: 2 ½ Hours

Max. Marks: 60

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

PART - A

1. Answer any FIVE of the following:

(5x2=10)

- Comment on the Semi-autonomous organell in the animal cell.
- Differentiate between plant and animal cells.
- Which phase of the cell cycle involves the division of the cell nucleus?
- Define cell senescence.
- Explain the term homozygous with example.
- Define multiple allelism with an example.
- Define frame shift mutation.
- Comment on Alkaptonuria.

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PART - B

Answer any SIX of the following:

(6x5=30)

- Comment on rough and smooth endoplasmic reticulum.
- Explain the structure and function of mitochondria.
- Explain the phases of cell cycle.
- Describe how disruption of cell cycle leads to cancer.
- Explain the chromosome theory of inheritance.
- What are the seven pairs of contrasting traits in pea plants studied by Mendel?
- Describe chorionic villus sampling as a prenatal examination method.
- Explain the Klinefelter syndrome.

PART - C

Answer any TWO of the following:

(2x10=20)

- Give an account on physical and chemical mutagens.
- Explain the cytoskeletal structure of the eukaryotic cell.
- Give an account on checkpoints regulating the cell cycle.
- Enumerate the complementary gene interaction with an example.

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**ST ALOYSIUS COLLEGE (AUTONOMOUS),
MANGALURU**
B.A./B.Sc. FIRST SEMESTER - DEGREE EXAMINATION
November / December - 2023
COMPUTER ANIMATION
GRAPHIC DESIGN FOR ANIMATION

Max. Marks : 60

Time : 2 ½ Hours

SECTION - AAnswer any **FIVE** of the following.**(5×2=10)**

1. Expand PDF and PNG.
2. How to blur the image edges in Photoshop?
3. How to undo in CorelDraw?
4. Name any 4 options of gradient effect.
5. What is the use of object intersecting?
6. What is the difference between path selection & direct selection tool?
7. Name any 4 styles of bevel & emboss effect.

SECTION – BAnswer any **FOUR** of the following.

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(4x5=20)

8. How to add text on path in CorelDraw?
9. Explain the steps to create the GIF files using frames.
10. Explain the steps to create a animated greeting card.
11. What are the features of Photoshop?
12. Explain about welding, trimming & intersecting.
13. How to use mask type tool? Explain with example.

SECTION – CAnswer any **TWO** of the following .**(2x15=30)**

14. Design Photoshop layout & explain the property bar & layers briefly.
15. Explain any 20 Photoshop tools.
16. What are the differences between vector and bitmap graphic?

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. - Semester I – Degree Examination

November/December - 2023

ECONOMICS – I(a)

MICRO ECONOMICS - I

Time: 2½ hrs.

Max Marks: 60

PART - A

I Answer any FIVE of the following.

(2×5=10)

1. Define Economics.
2. List out the types of utility.
3. What are the methods of estimating market demand?
4. What is income elasticity of demand?
5. Give the meaning of production function.
6. What is an iso product map?
7. Distinguish between sunk cost and incremental cost.
8. Give the meaning of oligopoly.

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PART - B

II Answer any SIX of the following.

(5×6=30)

9. Briefly explain the nature of Economics.
10. Explain the degrees of price elasticity of demand.
11. Briefly explain the law of supply.
12. Write a note on law of equi marginal utility.
13. Write a note on law of returns to scale.
14. Write a note on indifference curves.
15. Explain the long run cost output relationship.
16. Explain the relationship between AR and MR under imperfect competition.
17. Briefly explain the features of perfect competition.

PART - C

III Answer any TWO of the following.

(10×2=20)

18. Explain the law of demand. What are the reasons for its operation?
19. Explain the law of diminishing marginal utility. What are its exceptions?
20. Explain the various methods of measuring price elasticity.
21. Explain the price and output determination under monopoly.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. - Semester I - Degree Examination

November/December - 2023

ECONOMICS - I(b)

MATHEMATICS FOR ECONOMICS

Time: 2½ hrs.

Max Marks: 60

Note: Graph and Log table will be provided.

PART - A

I Answer any FIVE of the following.

(2×5=10)

1. If $A = \begin{pmatrix} 5 & 7 \\ 3 & 0 \end{pmatrix}$ $B = \begin{pmatrix} 9 & 0 \\ -1 & 4 \end{pmatrix}$ find A-B
2. What do you mean by function? Give an example.
3. What do you mean by minimisation of loss?
4. If $y = 6x^3 + 4x^2 - 8$ find dy/dx .
5. What is constrained optimisation?
6. What do you mean by consumer's surplus?
7. If $U = X^3$ and $V = X^2$ then find $d(UV)/dx$. (Product rule).
8. Find determinant of $A = \begin{vmatrix} 2 & 3 \\ 1 & 3 \end{vmatrix}$

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PART - B

II Answer any SIX of the following.

(5×6=30)

9. Solve the following system by Cramer's rule.
 $5x + 3y = 12$
 $2x - 4y = 10$
10. If set $A = \{2, 4, 6, 8, 10, 12\}$, $B = \{3, 6, 9, 12, 15, 18\}$ and set $C = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ then find i) $A \cap B$ ii) $B \cap C$ iii) $A \cap C$.
11. Given $C = 75 + 0.8Y$, $I = 85 + 0.4Y$ and $G = 150$
a) Complete the model.
b) Determine the equilibrium values of national income.
12. Simply the function
Limit $\frac{X^2 + 4x - 12}{X^2 - 2X}$
 $x \rightarrow 2$
13. The demand function is $Y = 16 - x^2$ and the supply function is $Y = 2x + 1$, where y refers to price and x represents quantity. Find producer's surplus under pure competition.
14. Explain the nature of mathematical economics?

Contd...2

15. If demand function is $Q_d=1800-20p$ and supply function is $Q_s= -1000+50p$ find the market equilibrium price and quantity.
16. Solve the following simultaneous equations using the elimination method.
 $4a + 5b = 12,$
 $3a - 5b = 9$
17. $TC=0.001X^2+0.04X+500$ find
 i) AC ii) MC iii) MAC iv) AVC v) MVC

PART – C**III Answer any TWO of the following.****(10×2=20)**

18. Demand function and the supply function for a certain commodity are:
 $S = -10+0.8P,$ $D = 65-2.5P$
 a) Determine the equilibrium values of price and quantity.
 b) Determine the effect of a specific subsidy of Rs.7 given to the producer on equilibrium price and quantity.
 c) What is the total subsidy or loss of revenue to the government?
 d) Determine how the subsidy is shared between the producer and consumer.
19. An electronic company produces two products- TVs and Stereo's. Its PPC is given by:
 $S^2 + 3S + 5T = 130,$ where $S =$ Stereo and $T =$ TV
 (i) Find out the maximum number of stereo's that can be produced?
 (ii) Maximum number of TVs it can produce?
 (iii) Maximum number of stereo's it can produce when 16 TVs are produced.
 (iv) Maximum number of TVs it can produce if 8 stereos are produced.
 (v) represent PPC graphically
20. Solve following LPP graphically
 Maximize $Z=2000X+1000Y$
 Subject to: $X+Y \leq 400$
 $8X+5Y \leq 2600$
 $X \geq 0, Y \geq 0$
21. Pareto's law of income distribution for a particular group is given by:

$$N = \frac{216 \times 10^{10}}{X^{1.5}}$$

 Find out,
 i) How many people are millionaires?
 ii) How many people have income between Rs 36,000 and Rs 1,00,000?
 iii) What is the lowest income of the 80 people with the highest income?

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St Aloysius College (Autonomous)**Mangaluru****B.Sc. Semester I – Degree Examination****November/December – 2023****FOOD SCIENCE - I****FUNDAMENTALS OF FOOD SCIENCE AND NUTRITION**

Time: 2½ Hours

Max. Marks: 60

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

PART – A1. Answer any **FIVE** of the following.

(2×5=10)

- What is Geriatric Nutrition?
- How the food helps in protecting the body?
- Write the importance of carbohydrates in our diet.
- What is anthocyanin?
- Define Nutrition
- Define Balanced Diet.
- What is RDA?

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(5×6=30)

- Explain the concept of meal planning.
- List various cooking methods and explain it.
- Explain the concept of food groups.
- Summarize on BMI.
- Explain the classification of lipids.
- Explain the functions of water in the body.
- Give a note on food pigments and its health benefits.
- Write a note on carbohydrates and its classification.

PART – CAnswer any **TWO** of the following:

(10×2=20)

- Elaborate on Balanced Diet in sports nutrition.
- Explain the sources and functions of Vitamin A, D, E and K.
- Summarize on food pyramid and my plate concept.

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. Visual Communication - Semester I - Degree Examination
November/December - 2023

INTRODUCTION TO VISUAL COMMUNICATION

Max. Marks : 60

Time : 2 ½ Hours

PART - A

Write short note in 2 to 3 sentences on any TEN of the following

(10×2=20)

1. The elements of communication
2. The major functions of communication. List them.
3. How do you evaluate mass communication?
4. Define creative thinking. **ST ALOYSIUS COLLEGE LIBRARY
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5. Give an example of a commonly recognized visual symbol and explain its meaning.
6. What appeals to the audience in fine arts?
7. Explain the concept of "rhythm" as a principle of visual composition. How is it created?
8. Explain the concept of "Emphasis" in visual composition and describe how it directs the viewer's attention within an artwork design.
9. Explain the components of the Golden ratio with an example.
10. Define the Gestalt Law of Proximity in the context of perception.
11. Explain how visual perception differs from auditory perception, highlighting the key sensory inputs involved in each.
12. Provide an example that illustrates the difference between sensation and perception.

PART - B

Answer any FOUR of the following in 100 - 150 words each

(4x5=20)

13. How does nonverbal communication contribute to the interpretation of a message? Give examples of nonverbal cues and their potential meanings.
14. A picture speaks a thousand words. Explain with an example.
15. Define composition in the context of visual arts. What are the key elements that contribute to the composition of a visual work?
16. Explain the concept of visual attention and its role in the perception of visual information. Provide an example to illustrate how selective attention can influence what we perceive in a complex visual scene.
17. Imagine you are a communication consultant tasked with helping a nonprofit organization to raise awareness for a social cause. Create a comprehensive communication strategy that includes both online and offline channels. Justify your choices and describe how you would measure the effectiveness of this strategy.

Contd..2

PART – C

Write a detailed note on any TWO of the following in 150 – 250 words each (2x10=20)

18. Critically assess the meaning, nature and scope of communication. Evaluate it in the context of Mass Communication.
19. What are the challenges and opportunities in visual communication in the era of social media and short attention spans? **ST ALOYSIUS COLLEGE LIBRARY**
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20. Imagine you are a designer tasked with creating a visually striking poster for a cultural festival. Describe your creative process for incorporating the elements of composition, discussing how each element enhances the poster's visual impact and communicates the essence of the event.

St Aloysius College (Autonomous)
Mangaluru

B.Sc. Visual Communication - Semester I - Degree Examination
November/December - 2023
FUNDAMENTALS OF PHOTOGRAPHY

Time : 2 ½ Hours

Max. Marks : 60

PART - A

Write short note in 2 to 3 sentences on any TEN of the following (10×2=20)

1. Definition of photography
2. Kit Lens
3. Shallow focus
4. Key Light
5. Camera modes
6. RAW Vs JPEG image formats
7. Adobe Photoshop
8. Product Photography
9. Inventors and pioneers of photography
10. DSLR and Mirrorless Camera
11. Over the Shoulder Shot
12. Golden ratio

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PART - B

Answer any FOUR of the following in 100 – 150 words each (4×5=20)

13. What are the key advantages of mobile photography as compared to traditional cameras?
14. Define the elements of photography.
15. Describe framing and composition in photography.
16. Explain DOF, Motion blur and Freeze motion.
17. Explain common digital image file formats, citing examples of each.

PART - C

Write a detailed note on any TWO of the following in 150 – 250 words each (2×10=20)

18. Describe the characteristics of different lens used in photography. Select a specific photographic scenario and discuss the appropriate lens and accessories necessary to achieve optimal results.
19. Explain the relationship between aperture size (f-stop), shutter speed, ISO depth of field, and how they impact the visual storytelling in a photograph.
20. Interpret how camera angle and shot size choices contribute to the visual language and story telling of a photograph on movie scene.

**St Aloysius College (Autonomous)
Mangaluru**

**B.Sc. Visual Communication - Semester I - Degree Examination
November/December - 2023
VISUAL DESIGN**

Time : 2 ½ Hours

Max. Marks : 60

PART - A

Write short note in 2 to 3 sentences on any TEN of the following (10×2=20)

1. Graphic Design
2. Art Deco Style and Aesthetics
3. Positive vs. Negative Space
4. AI in visual design
5. Shapes and Visual Balance
6. Scope of design in various fields
7. Elements of design
8. Role of Colour in Design
9. Design Software and Tools
10. Prototyping in Design
11. Visual Perception of Form
12. White Space

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PART – B

Answer any FOUR of the following in 100 – 150 words each (4x5=20)

13. Define the concept of space in design.
14. Describe the fundamental principles of visual design.
15. Provide examples of situations where each colour model is commonly used in visual communication.
16. Describe the characteristics of the Art Nouveau Movement.
17. Explain the categories of form commonly used in design.

PART – C

Write a detailed note on any TWO of the following in 150 – 250 words each (2x10=20)

18. Analyse a Visual Design case study in advertising, focusing on design elements and principles.
19. Create a hypothetical design brief for a branding project, outlining the steps you would take in the visual design process.
20. Explain how the choice of shape type influence the overall visual impact and intended message.

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**St Aloysius College (Autonomous)
Mangaluru**

**B.A./ B.Com./B.B.A./B.Sc./B.C.A. - Semester I – Degree Examination
November / December 2023**

ENGLISH

Time: 2½ hrs.

Max Marks: 60

UNIT - I (PROSE)

- I A. Answer the following in a word/phrase/sentence each. (5x1=5)**
1. What type of patriotism is recognized under the ancient French monarchy?
 2. When the Second World War broke out in 1939, there was a sudden demand for _____ seeds.
 3. In 'How Wealth Accumulates and Men Decay', Shaw, argues against the claims of _____ that new machinery and new modes of production have increased our wealth.
 4. In which magazine the essay 'A Hanging' first got published in 1931?
 5. Who is the mother of Dr A.P.J. Abdul Kalam?
- B. Answer any THREE of the following in about 150-180 words each. (3x5=15)**
1. Comment on Tocqueville's opinion of Americans and the kind of patriotism they display.
 2. How did the tiny town of Rameshwaram become a vehicle of moral growth? Substantiate.
 3. How does Shaw use the analogy of dress making to discuss how capitalism has restricted people's skills?
 4. Do you think the dog's sudden appearance has any impact on the essay, 'A Hanging'? Provide reasons for your answer.

UNIT - II (POETRY)

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- II. Answer any TWO of the following in about 150-180 words each. (2x5=10)**
1. Explain how cosmic pattern is connected to the pattern of human life in the poem, 'Night and death.'
 2. How is the tiger portrayed as a mythical beast which is almost inexplicable in its beauty and glory?
 3. What is the tone of the poem, 'Do Not Go Gentle into That Good Night?' Support your answer with examples from the poem.
 4. Comment on the treatment of time in the poem 'A Hot Noon in Malabar.'

UNIT - III (SHORT STORY)

- III. Answer any TWO of the following in about 150-180 words each. (2x5=10)**
1. How did Ronald get entangled with Celia's elderly cousin?
 2. In the short story, 'Getting Married,' do you think the narrator had a role in arranging all the things for their marriage? Explain.
 3. Describe the life of the Bashkirs.
 4. What is the significance of the argument that the two sisters have according to the short story, 'How much land does a man need?'

Contd...2

UNIT – IV (GRAMMAR AND WRITING SKILLS)**IV A. Fill in the blanks with appropriate idioms and phrases given in brackets. (5x1=5)**

1. My grandfather is extremely temperamental. You have to _____.
2. She seemed so surprised by the news that it must have come _____.
3. The little girl works so hard. She practically _____ in her family.
4. She has _____ and has promised me to complete the course.
5. With the way you are keeping silent, one would wonder if the _____.

[cats got one's tongue / handle with kid gloves / bring home the bacon / out of the blue / pull up one's socks, make a beeline, to feel blue]

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B. Write a dialogue in about 150 words in five turns: (1x5=5)

Write a dialogue that takes place between you and the counsellor of your block, seeking help to improve on your study skills.

C. Develop a story based on the hints given below in about 150 words: (5x1=5)

Molly the milk maid----- milked cow's---- milk container---- market---- money--- different ideas---- to spend money---- buy cake and straw berries, buy a silky gown--- desire for money---buy hen---- eggs--- excitement--- spilt milk--- mother's advice---- "don't count chickens until they hatch."

D. Read the following passage and answer the questions that follow: (5x1=5)

Today I, Rabindranath Tagore complete eighty years of my life. As I look back on the vast stretch of years that lie behind me and see in clear perspective the history of my early development, I am struck by the change that has taken place both in my own attitude and in the psychology of my countrymen -- a change that carries within it a cause of profound tragedy.

Our direct contact with the larger world of men was linked up with the contemporary history of the English people whom we came to know in those earlier days. It was mainly through their mighty literature that we formed our ideas with regard to these newcomers to our Indian shores. In those days the type of learning that was served out to us was neither plentiful nor diverse, nor was the spirit of scientific enquiry very much in evidence. Thus, their scope being strictly limited, the educated of those days had recourse to English language and literature. Their days and nights were eloquent with the stately declamations of Burke, with Macaulay's long-rolling sentences; discussions centered upon Shakespeare's drama and Byron's poetry and above all upon the large-hearted liberalism of the nineteenth-century English politics.

Contd...3

At the time though tentative attempts were being made to gain our national independence, at heart we had not lost faith in the generosity of the English race. This belief was so firmly rooted in the sentiments of our leaders as to lead them to hope that the victor would of his own grace pave the path of freedom for the vanquished. This belief was based upon the fact that England at the time provided a shelter to all those who had to flee from persecution in their own country. Political martyrs who had suffered for the honour of their people were accorded unreserved welcome at the hands of the English.

I was impressed by this evidence of liberal humanity in the character of the English and thus, I was led to set them on the pedestal of my highest respect. This generosity in their national character had not yet been vitiated by imperialist pride. About this time, as a boy in England, I had the opportunity of listening to the speeches of John Bright, both in and outside Parliament. The large-hearted, radical liberalism of those speeches, overflowing all narrow national bounds, had made so deep an impression on my mind that something of it lingers even today, even in these days of graceless disillusionment.

1. From the first paragraph, find a synonym for 'deep'.
 - a) Perspective
 - b) Profound
 - c) Tragedy
 - d) Psychology
2. What helped the Indians to conceive of a notion of the Englishmen?
 - a) Their advanced weaponry
 - b) Their literature
 - c) Their orders
 - d) Their administration
3. Who could read and gain from English literature?
 - a) The educated Indians
 - b) All the Indians
 - c) Only writers such as Rabindranath Tagore
 - d) None of the above
4. From the second paragraph, pick an antonym for 'victorious'.
 - a) Victor
 - b) Vanquished
 - c) Liberalism
 - d) Persecution
5. Whose speeches did Tagore listen to, as a boy?
 - a) Shakespeare
 - b) Byron
 - c) John Bright
 - d) Macaulay

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St Aloysius College (Autonomous)

Mangaluru

November / December 2023

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

HINDI

Time: 2½ hrs.

Max Marks: 60

I किन्हीं दो प्रश्नों के उत्तर लिखिए :

(2X5=10)

1. स्वर की परिभाषा देकर उसके भेदों को उदाहरण सहित समझाइए।
2. शब्द की परिभाषा देते हुए विकार की दृष्टि से शब्द भेदों को सोदाहरण समझाइए।
3. 'व्यंजन वर्ण' किसे कहते हैं ? उसके भेदों को सोदाहरण समझाइए।
4. 'वर्ण' की परिभाषा देते हुए स्वर के भेदों पर प्रकाश डालिए।

II.अ) निम्नलिखित शब्दों के तद्भव रूप लिखिए :

(5X1=5)

1. भ्राता
2. तीक्ष्ण
3. आम्र
4. श्वास
5. ओष्ठ

आ) निम्नलिखित शब्दों के शुद्ध रूप लिखिए :

(5X1=5)

1. बदाम
2. हस्ताक्षेप
3. तिरिस्कार
4. छत्रिय
5. पिंजड़ा

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III. एक वाक्य में उत्तर लिखिए :

(10X1=10)

1. गिल्लू का प्रिय खाद्य क्या था?
2. सच बोलने की भूल कहानी में किसान और उसकी पत्नी किसके गर्दन पर हाथ डालने की बात कर रहे थे?
3. कालिंदी को मिली चिट्ठी में किसकी मृत्यु के बारे में लिखा हुआ था?
4. हॉकी मैच का बहाना देकर अब्दुल गनी कहाँ आया था?
5. कर्ण के जन्म के रहस्य को कौन-कौन जनते थे?
6. चिरागदीन के बच्चों का नाम क्या था?
7. कर्ण की स्वामि-भक्ति किसके प्रति थी?
8. किस समय गोरी ने पृथ्वीराज की आँखों में नींबू और मिर्च डालने का फैसला किया?
9. गरीब किसानों के घर की छत क्यों डालू बनाई जाती है?
10. गिल्लू कहाँ से गिर पड़ा?

Contd...2

IV.अ) निम्नलिखित किसी एक अवतरण का संदर्भ सहित व्याख्या कीजिए: (1X5=05)

1. "अच्छा, अच्छा! उसके साथ बच्ची है। इस समय पड़ाव तक कैसे जाएगा? आने दो, कुछ हो ही जाएगा।"
2. "देखो, कहा भी था कि संभल कर गर्दन पर हाथ डालना।"

आ) निम्नलिखित किसी एक अवतरण का संदर्भ सहित व्याख्या कीजिए: (1X5=05)

1. "क्या तुम नहीं जानते कि इन कवच -कुंडलों के बिना तुम युद्ध में अजेय न बन सकोगे?"
2. "उस निर्दय क्षण की बात मत पूछो। बड़ी कठिनाई से उस कष्ट को भुला सका हूँ।"

V. किसी एक प्रश्न का उत्तर लिखिए : (10X1=10)

1. 'सच बोलने की भूल' कहानी में साधारण मनुष्य की मनोदशा का यथार्थ चित्रण हुआ है। स्पष्ट कीजिए।
2. "मलबे का मालिक"- कहानी का सारांश अपने शब्दों में लिखिए।

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VI. किसी एक प्रश्न का उत्तर लिखिए : (10X1=10)

1. 'पृथ्वीराज की आँखें' एकांकी लिखने के पीछे निहित एकांकीकार के उद्देश्य को सविस्तार लिखिए।
2. 'आखेट' एकांकी का सारांश अपने शब्दों में लिखिए।

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ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ), ಮಂಗಳೂರು
ಬಿ.ಎಸ್ಸಿ - ಒಂದನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ
ನವೆಂಬರ್/ಡಿಸೆಂಬರ್ - 2023
ಕನ್ನಡ ಭಾಷಾಪತ್ರಿಕೆ - 1

ಸಮಯ : 2½ ಘಂಟೆ

ಗರಿಷ್ಠ ಅಂಕ: 60

- I. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (7x3=21)
1. ಸ್ವಾಮಿನಾಥನ್‌ನ ಸೂಕ್ಷ್ಮ ಭಾವಗಳು, ತುಂಟ ಮನಸ್ಸಿಹಿ, ಆಲೋಚನಾ ಲಹರಿ ಆರ್.ಕೆ.ನಾರಾಯಣ್ ಕತೆಯಲ್ಲಿ ವ್ಯಕ್ತವಾದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ
 2. ಭಾಷೆಗಳ ಬೆಳವಣಿಗೆಯಿಂದ ಮಾನವ ಬದುಕು ಹೇಗೆ ಸುಸಂಸ್ಕೃತವಾಯಿತು? ವಿವರಿಸಿ
 3. ಗೋಪಾಲಯ್ಯನ ಮನೆಯಲ್ಲಿ ಉಳಿದುದರಿಂದ ಶಿವರಾಮಯ್ಯನಿಗೆ ಬದುಕಿನ ದರ್ಶನವಾಗುತ್ತದೆ ಎಂಬ ವಿಚಾರವನ್ನು ಚರ್ಚಿಸಿ
 4. ಡಾರ್ವಿನ್‌ನ ನಿರಂತರ ಪರಿಶ್ರಮದ ಸಂಶೋಧನೆಯು ಲೇಖನದಲ್ಲಿ ಹೇಗೆ ಮೂಡಿ ಬಂದಿದೆ? ವಿಮರ್ಶಿಸಿ
 5. ಲಾರಾ ಇಂಗಲ್ಸ್ ವೈಲ್ಡರ್ ಅವರ ಎಳೆತನದ ಅನುಭವಗಳನ್ನು 'ಡಕೋಟಾದಲ್ಲಿ ಲಾರಾ' ಕಥೆಯ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಪರಿಚಯಿಸಿ
 6. ಸಮಸ್ತ ಜನರ ಉಪಕಾರಕ್ಕಾಗಿ ವಸುಭಾಗಭಟ್ಟನು ಹೇಳಿದ ಕಥೆಗಳಾವುವು? ವಿವರಿಸಿ
- II. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ (3x3=09)
7. ಅನುಭವಗಳು ಕವಿತೆಯ ಕಾವ್ಯ ಸತ್ವವನ್ನು ಇನ್ನಷ್ಟು ಸ್ಪಷ್ಟಗೊಳಿಸುತ್ತವೆ - ಈ ಹೇಳಿಕೆಯನ್ನು ಪಿ.ಚಂದ್ರಿಕಾ ಕವಿತೆಯ ಆಧಾರದಲ್ಲಿ ವಿವರಿಸಿ
 8. ಕಗ್ಗದೊಳಗೆ ಅಡಗಿರುವ ಸೃಷ್ಟಿಯ ಕೌತುಕವನ್ನು ಕವಿಯ ಮಾತಿನಲ್ಲಿ ನಿರೂಪಿಸಿ
 9. ಕನ್ನಡ ನಾಡುನುಡಿಯ ವರ್ಣನೆ ಪಂಪನ ಕಾವ್ಯದಲ್ಲಿ ಹೇಗೆ ಚಿತ್ರವಾಗಿದೆ?
 10. ನೇಮಿಚಂದ್ರರ ಬದುಕು ಮತ್ತು ಸಾಹಿತ್ಯ ಸೇವೆಯನ್ನು ಪರಿಚಯಿಸಿ
 11. ಲಾರಾ ಇಂಗಲ್ಸ್ ವೈಲ್ಡರ್ ಅವರ ಕಥಾ ಸರಣಿಯ ಹಿನ್ನೆಲೆಯೇನು?
 12. ಮಳೆಬಂದು ಎಲ್ಲವನ್ನೂ ಶುದ್ಧಗೊಳಿಸುತ್ತದೆಂಬ ಆಶಾಭಾವನೆಯು ಮಳೆ ಬರುವ ಹಾಗಿದೆ ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ವ್ಯಕ್ತವಾಗಿದೆ?
- III. ಒಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಪದ್ಯದ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ (4x1=04)
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MANGALURU - 575 003
13. ಏನಿದು ಧಟ್ಟನೆ ಗೀತವು ಬಿಗಿದಿದೆ!
ದನಿಯುಡುಗಿಸಿ ನಿಂತಿದೆ ಜನತೆ!
ಏನೀ ಮೂಕತೆ, ಏನೀ ಮೌನತೆ,
ಏನೀ ಮಂದಿಯ ನೀರವತೆ!
 14. ಸೊಗಯಿಸಿ ಬಂದ ಮಾಮರನೆ ತಳ್ಳಿಲೆವಳ್ಳಿಯೆ ಪೂತ ಜಾತಿ ಸಂ
ಪಗೆಯೆ ಕುಕಿಲ್ವ ಕೋಗಿಲೆಯೆ ಪಾಡುವ ತುಂಬಿಯೆ ನಲ್ಲರೊಳ್ಳೊಗಂ
ನಗೆಮೊಗದೊಳ್ ಪಳಂಚಲೆಯೆ ಕೂಡುವ ನಲ್ಲರೆ ನೋಳ್ಳೊಡಾವ ಬೆ
ಟ್ಟುಗಳೊಳಮಾವ ನಂದನವನಂಗಳೊಳಂ ಬನವಾಸಿ ದೇಶದೊಳ್

Contd...2

- IV. ಎರಡು ಪದ್ಯ ಸಾಲುಗಳ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸಾಲಿನ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ (2x2=04)
15. ಧರೆಯೊಳ್ ತಾಂ ಕರ್ಪವಿತ್ತಿ ಪಾಲಿಸುತಿದಂ
16. ಕಣ್ಣೆ ಕಡು ಚೆಲ್ಲುವಡೆದಿರುತಿಹುದು
17. ನೀವು ಕೂಡಿದಾಗಿಂದ ನನ್ನ ನೆಲವನ್ನು ಬತ್ತಲಾಗಿರಿಸಿದ್ದೀರಿ
18. ಏನೊ ಕಣ್ಣೆಣಕುವುದು ಸಂದಿಯವೆ ನಮ್ಮ ಗತಿ!
- V. ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ (3x2=06)
19. ಪಂಪನ ಆದಿಪುರಾಣ
20. ಕುಮಾರರಾಮ
21. ಯದುಗಿರಿಯ ದೇಗುಲದ ಮುಂಜಾನೆ ಮೌನ
22. ಸಿರಿವಾಸಿಯೆಂಬ ಪುರದ ಸಿರಿವಂತ
- ಆ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ (3x2=06)
23. ಲಾರಾ ಇಂಗಲ್ಸ್ ವೈಲ್ಡರ್
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24. ಆರ್.ಕೆ.ನಾರಾಯಣ್ MANGALURU - 575 003
25. ಮಾಸ್ತಿಯವರ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಬರವಣಿಗೆ
26. ಡಾರ್ವಿನ್‌ನ ಸಂಶೋಧನೆಗೆ ಸರ್ಕಾರದ ನೆರವು
- VI. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ (1x10=10)
27. ಮಾಸ್ತಿಯವರು ಯಾವ ಜಿಲ್ಲೆಯವರು?
28. ಸಾಮ, ದಾನ, ಭೇದ ಮತ್ತು ದಂಡ ಇವುಗಳನ್ನು --- ಎಂದು ಕರೆಯುತ್ತಾರೆ.
29. ಹಸಿರು ಹೊನ್ನು ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?
30. ಬೆಟ್ಟದ ಜೀವ ಕಾದಂಬರಿಯು ಯಾವಾಗ ಮೊದಲ ಮುದ್ರಣ ಕಂಡಿತು?
31. ಪೆರುವಿನ ಪವಿತ್ರ ಕಣಿವೆಯಲ್ಲಿ ಯಾರ ಪ್ರವಾಸ ಕಥನ?
32. ಪಿ. ಚಂದ್ರಿಕಾ ಅವರು ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿ ಜನಿಸಿದರು?
33. ಫೋಲಿ ಷೊಯಿಂಕಾ ಯಾವ ದೇಶದ ಕವಿ?
34. ಇಂಗ್ಲಿಷ್ ಕಾದಂಬರಿಕಾರ ಆರ್.ಕೆ.ನಾರಾಯಣ್ ಹುಟ್ಟಿದ ಊರು ಯಾವುದು?
35. ಕನ್ನಡ ಪ್ರಗತಿಶೀಲ ಬರಹಗಾರರಲ್ಲಿ ---- ಪ್ರಮುಖರು.
(ಬಿಟ್ಟಿಪದ ತುಂಬಿರಿ: ಸಿದ್ದಲಿಂಗಯ್ಯ, ಎಚ್.ಎಸ್.ಶಿವಪ್ರಕಾಶ್, ಎಸ್. ಅನಂತನಾರಾಯಣ)
36. ದುರ್ಗಸಿಂಹನ ಗುರು ಯಾರು?

**St Aloysius College (Autonomous)
Mangaluru**

**B.Sc. – Semester I – Degree Examination
November/December - 2023**

SANSKRIT

Time: 2½ Hrs

Max Marks: 60

- 1 इलोकद्वयम् अनुवादं कृत्वा विवृणुत । (2 x 5 = 10)
- 1.1 वस्यास्थि वित्तं स नरः कुलीनः स पण्डितः स श्रुतवान् गुणज्ञः ।
स एव वक्ता स च दर्शनीयः सर्वे गुणाः काञ्चनमाश्रयन्ति ॥
- 1.2 हन्तुं देवकितनयां वसुदेवेनोद्यतायुधः कंसः ।
मधुरोक्तिभिरनुनीतः साम्ना मूर्खं वशे कुर्यात् ॥
- 1.3 दातव्यमिति यद्दानं दीयतेऽनुपकारिणे ।
देशे काले च पात्रे च तद्दानं सात्त्विकं स्मृतम् ॥
- 1.4 व्याघ्रीव तिष्ठति जरा परितर्जयन्ती रोगाश्च शत्रव इव प्रहरन्ति देहम् ।
आयुः परिस्रवति भिन्नघटादिवाम्भः लोकस्तथाप्यहितमाचरतीति चित्रम् ॥
- 2 त्रीन् सन्दर्भसहितविवरणं लिखत । (3 x 4 = 12)
- 2.1 सात्त्विकी राजसी चैव तामसी चेति तां शृणु ।
- 2.2 सत्सङ्गतिः कथय किं न करोति पुंसाम् ।
- 2.3 न नीतिमार्गं परिलङ्घयन्ति ।
- 2.4 विचारमूढः प्रतिभासि मे त्वम् ।
- 2.5 न दुर्जनस्थान्तिके निवसेत् ।
- 3 त्रीन् प्रबन्धरूपेण उत्तरयत । (3 x 5 = 15)
- 3.1 नन्दीनी धेनुः दिलीपं कथं परीक्ष्यते ? यथापाठं विवृणुत ।
- 3.2 श्रद्धत्रयविभागयोगे उक्ताः तपः प्रभेदान् अधिकृत्य प्रबन्धं लिखत ।
- 3.3 'सूक्तिमुक्तावलिः' पाठे प्रतिपादितानि जीवनमौल्यानि कानि ? विवृणुत ।
- 3.4 विदुरनीतिः – पाठस्य सारं लिखत ।
- 3.5 नीतिशतकं – पाठे उक्तानां नीतीनां विषये प्रबन्धं रचयत ।
- 4 द्वयोः टिप्पणीं लिखत । (2 x 4 = 8)
- 4.1 महाभारतम् ।
- 4.2 रघुवंशः ।
- 4.3 विदुरनीतिः ।
- 5 एकं संस्कृतेन टिप्पणीं लिखत । (1 x 5 = 5)
- 5.1 सुभाषितानि ।
- 5.2 भगवद्गीता ।
- 5.3 भर्तृहरिः ।

Contd..2

6 रिक्तस्थानानि पूरयत ।

(5 x 1=5)

6.1 यशोधनो धेनुमूषेः _____ । (मुमोच, मुमुञ्च, मुञ्च)

6.2 वाङ्मयं _____ उच्यते । (तप, तपाः, तपौ)

6.3 काकोऽपि जीवति चिराय बलिं च _____ । (भुङ्क्ते, भुञ्जते, भुञ्जन्ते)

6.4 जाङ्घं _____ हरति । (धीः, धियः, धियो)

6.5 साम्ना _____ वशे कुर्यात् । (मूर्खम्, ज्ञानिम्, बालान्)

संयोजयत ।

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(5 x 1=5)

6.6 सुदक्षिणा - भगवद्गीता

6.7 भर्तृहरिः - कालिदासः

6.8 रघुवंशः - नीतिशतकम्

6.9 महाभारतम् - दिलीपसत्वपरीक्षणम्

6.10 मेघसन्देशः - राजा दिलीपः

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**St Aloysius College (Autonomous)
Mangaluru**

B.A. /B.Sc./B.Com /BBA/BCA Semester I - Degree Examination

KONKANI

Time: 2 ½ Hours

November / December - 2023

Max. Marks: 60

I ಖಂಚಾಯ್ ಎಕಾ ಕವನಾಚೊ ಸಾರಾಂಶ್ ಬರಯಾ.

(1×5=5)

Khanchal eka kavanacho saransh boroya

खन्चय एक कवनचो सरन्श बोरोय

- | | | |
|--|---|---|
| 1) ಹರ್ ಎಕಾ ತಾರ್ವತ್ಯಾಚ್ಯಾ ಮನಾಂತ್
ಆಸ್ತಾ ಏಕ್ ದಯೊ ತಾಂಡುನ್ ಭಿತರೊ
ಆನಿ ಆಸ್ತಾ ಏಕ್ ಗಾಂವ್
ಪಯ್ಸ್ ಪಲ್ತಡಿ ಶೆಣಿಲೊ | Har eka tarvatyacha mo'nant
Asta ek doryo tandun bitarlo
Ani asta ek ganv
Pals paltadi xennilo | हर एका तर्वत्य मोनन्त
अस्त एक दोर्यो तन्दुन भितर्लो
अनि अस्त एक गान्व
पोइस पल्टडि शेणिल्लो |
| 2) ಚಲ್ತೆಂ ಹಾಂವೆಂ ದೆಖ್ಲಾಂ
ಆಂಗವ್ಣ್ ಕೆಲೆಲ್ಯಾಂನಿಂ
ಕಾಂಯ್ ಏಕ್ ಶೆಂಭರ್ ಮಯ್ಲಾಂ
ಮಾತ್ಯಾರ್ ಲೆಪುನ್ ಪೊಟ್ಟಿ
ಖಾಂದಾರ್ ಲಾಂಚಿ ಜೋಳಿ
ಓಂತ್ ಹಾಲವ್ನ್ ಮಾಗ್ಲಾನಿಂ. | Chalche have dekla
Angovnn kelelani
Kai ek xembhor maila
Matyar tevun potli
Khandar lamchi jolli
Ont halavn magnnyani. | चल्चे हवे देक्ल
अनोव्ण केलेलानि
कय एक शेम्भोर मोइला
मत्यर टेवुन पोद्लि
खन्दर लम्चि जोळि
ओन्ट हलव्न मग्नयनि |
| 3) ಗಾಂವಾರ್ ಏಕ್ ವೈರಸ್ ಆಯ್ಲೆಂ
ರಾಜ್ ರಸ್ತೆ ನಿದುನ್ ಪಡ್ಲೆ
ರಾನಾಂತುಲ್ಯಾ ಮ್ಯಾಗಾಂಕ್ ಮಾತ್
ಪಯ್ಲೆ ಪಾವ್ತಿಂ ಸುಟ್ಕಾ ಲಾಬ್ಲಿ. | Gavar ek virus ayle
Raj raste nidon podle
Ranatulya mrigank matr
Poile pavti sutka labli | गवार एक विरुस ऐले
रज रस्ते निदोन पोइले
रनतुल्य म्रिगन्क मत्र
पोइले पौटि सुत्का लाब्लि |

II ಎಕಾ ವಾಕ್ಯನ್ ಜಾಪ್ ಬರಯಾ. Eka vakyan zap boroya

एक वक्यन ज़प बोरोय

(5×1=5)

- 1) ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿಚೊ ವಿಜೇತ್ ಕವಿ ಕೋಣ್?
Kendra sahitya academicho vijet kavi konn?

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केन्द्रा सहित्य अचदेमिचो विजेत कवि कोण?

- 2) 'ಮುಜಿ ಸಪನ್ ಪೋರಿ' ಕವನಾಚೊ ಬರಯ್ತಾರ್ ಕೋಣ್?
'muji sapan pori' kavanacho boroinnar konn?

'मुजि सपन पोरी' कवनचो बोरोय्णर कोण?

- 3) ಚಾಮ್ಡ್ಯಾಚೊ ವ್ಹಾಣೊ ಘೆವ್ನ್ ಕವಿ ಕೋಣಾಲಾಗಿಂ ವೆತಾ?
chamdyachyo vanno ghevn kavi konna lagi veta?

चम्ड्यचो वणो घेव्न कवि कोण लागि वेता?

- 4) ಕೊಣಾಕ್ ತಾಪ್ ಯೆಂವ್ಚೊ ನಾಕಾ ಮುಣ್ ಕವಿ ಮಾಗ್ತಾ?
konnak tap yevncho naka munn kavi magtha?

कोणाक तप येव्चो नका मुण कवि मगता?

- 5) ಕೊಣಾಚಿ ಯಾದ್ ಲೇಖಕಾಕ್ ಧೊಸ್ತಾ?
Konnaci yad lekhak dosta

कोणचि यद लेखक दोस्ता?

Contd...2

III ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.

(1×5=5)

Khanchai eka savalak zap boroya.

खन्चय एक सवलक ज़प बोरोय

1) ವೈರಸ್ ಸಂಸಾರಾಕ್ ಕಶೆಂ ಮಾರೆಕಾರ್ ಜಾಂವ್ಕ್ ಪಾವ್ಲೆಂ ಮ್ಹಣ್ ಕವಿ ಸಾಂಗ್ತಾ?

Virus sansarak kaxe marekar zavnk pavle munn kavi sangta?

विरुस सन्सरक कशे मरेकर ज़लन पव्ले मुण कवि स्मता

2) ನಂಯ್ ಕಿತ್ಯಾಕ್ ಆಶೆತಾ? ತಾಚಿ ಆಶಾ ಸುಫಳ್ ಜಾತಾ? ವಿವರಿಯಾ.

noy kitak axeta? Taci axa supholl zatagi? Vlivarsia.

न्ह कित्यक अशेता? तचि अश सुफ़ोळ ज़तागि.विवर्सिय

UNIT - II

I ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ: **savalank zap boroya** ಸವಲನ್ಕ ಜ಼ಪ ಬೋರಿಯ (5×1=5)

1. ಮಿಶೆಲ್ ಖಿಂಯ್ಸರ್ ಭೆಟಾ?

mixel kaisar bhetha

मिचेल्ले खय्सर भेट्ता?

2. ಪಪ್ಪಾ ಖಿಂಯ್ಸರ್ ರಾವ್ತಾಲೊ?

papa kaisar ravtalo?

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पाप्पा खय्सर राव्तालो?

3. ಆಲಿಸ್ ಬಾಲ್ಚೊ ಪೊಸ್ಕೊ ಪೂತ್ ಕೋಣ್?

alicebalcho posko put konn

अलिस बयेचो पोस्को पूत कोण?

4. ಮೊಗಾಚೊ ಆಸ್ರೊ ಕಾಣಿಯೆಚೊ ಬರಯ್ಲಾರ್ ಕೋಣ್?

Mogacho asro kannlecho boroinnar konn?

मोगाचो अस्रो कणियेचो बोरोय्यार कोण?

5. ಕೋಣ್ ಮೊಗಾಚೊ ಆಸ್ರೊ ಸೊಡ್ತಾ?

konn moghacho asro sodta

कोण मोगचो अस्रो सोदता?

II. ಖಿಂಚಾಯ್ ಎಕಾ ಪಾತ್ರಾಚಿ ಪರಿಚಯ್ ದಿಯಾ **khanchay eka patrachi parichay diya**

खन्चय एक पत्राचि परिचय दिय

(5)

1. ತುಳಸಿ tulasi ತುಳಸಿ

2. ಸೈಕಲ್ cycle ಸಹಿಕಲ

III. ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ. ಖನ್ಚಯ एक सवलक ज़प बोरोय

(1×5=5)

1. ಲೇಖಕ್ ಆನಿ ಸ್ಟ್ರೀ ಲಿಪ್‌ಸ್ಟಿಕ್ ಕಾಣಿಯೆಂತ್ ಕಶೆಂ ಪ್ರಮುಖ್ ಪಾತ್ರ್ ಘೆತಾತ್ ಕಳಯಾ.

lekak ani stri lipstick kannient kaxe pramukh patr ghetat kallaya

लेखाक अनि स्त्रि लिप स्तिक कणियेन्त कशे प्रामुख पत्र घेतात कळाय

2. ಲೇಖಕಾಕ್ ಸೈಕಲಾರ್ ಜಾಲೊ ಅನುಭವ್ ಬರಯಾ.

lekak cycler zal'lo anubhav boroya

लेखकक स्कालर ज़ालो अनुभव बोरोया

Contd...3

UNIT - III

I ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ. Yeka vakyan zap boroya एक वक्यन ज़प बोरोय

(5×1=5)

1. ಮಾಗ್ಗಿಚೊ ಮಾಂವ್ ಕಿತೆಂ ಫಿಯಾದ್ ಘೆವ್ನ್ ಆಯಿಲ್ಲೊ?
maggicho manv kite piryad ghevn ail'lo?
मागिचो मान्व किते पिर्याद घेव्न अहिल्लो
2. ಮಿರೊಣ್ ಕೊಣ್
mironn konn?
मिरोण कोण?
3. ಫಾ. ಜೇಮ್ಸ್ ಥಂಯ್ ಕಿತೆಂ ಅನಾಹುತ್ ಘಡ್ತಾ?
Fr. Jamesa tal kite anahut ghadta?
फ़. जेम्सा थय किते अनाहुत घडल्ले
4. ಶಿಪಾಯ್ಗಿರಿ ತರ್ನಾಟೊ ಕೊಣ್?
xipoygiri tarnato konn?
शिपय गिरि तर्नटी कोण?
5. ಗೊವ್ಲಿಕ್ ಮಂಡಳಿಚ್ಯಾ ಖಂಚಾಯ್ ಎಕಾ ಸಾಂದ್ಯಾಚೊ ಉಲ್ಲೇಖ್ ಕರಾ?
govllik mandalicha khanchai eka sandyacho ul'lek kora.
गोवळिक मन्दलिच्या खन्चय एका सन्धचो उल्लेक कोरा

II ಖಂಚೆಂಯ್ ಎಕ್ ಕೊಣೆಂ, ಕೊಣಾಕ್ ಅನಿ ಖಂಯ್ಚ್ಯಾ ಸಂದರ್ಭಾರ್ ಸಾಂಗ್ಲಿಂ ಉತ್ರಾಂ ಕಳಚುನಾ
Khanchey ek konne konnak ani khancha sandarbar sangli'li utra kal'laya

खन्चेय एक कोणे कोणक अनि खन्च सन्दर्भर सन्लिल उत्र कळय

(1×5=5)

1. “ತುಕಾ ಕೊಣೆಂ ಆಧಾರ್ ದೀಂವ್ಕ್ ಇನ್ಕಾರ್ ಕೆಲ್ಯಾರ್‌ಯೀ, ಹಾಂವ್ ತುಕಾ ಮ್ಹಜೊ ಆಧಾರ್ ಇನ್ಕಾರ್ ಕರಿಸೊನಾ”
“tuka konne adhar divnk inkar kelyari, hanv tuka muzho adar inkar karisona”
“तुक कोणे अदर दिव्क इन्कर केल्यरि, हाव तुक मुजो अदर इन्कर करिसोन”
2. “ಬಳ್ ಅಸ್‌ಲ್ಲಾಚೆಂ ಬೊಳ್ಕೆಂ”
“boll asl'fache bolleke”
“बोळ अस्ल्ल्याचे बोळ्के”

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III ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ. खन्चय एक सवलक ज़प बोरोय

(1×5=5)

1. ಡೆನಿಸಾ ಥಂಯ್ ಘಡ್ಲೆಂ ಅನಾಹುತ್ ಬರಯಾ.
Denisa tay ghadl'le anahut boroya.
देनिसा थय घडल्ले अनहुत बोरोया
2. ಫಾ. ಜೇಮ್ಸ್ ಥಂಯ್ ಘಡ್ಲೆಂ ಅನಾಹುತ್ ವಿವರ್ಸಿಯಾ.
Fr. Jamesa tai ghadl'le anahut vivarsiya.
फ़. जेम्स थय घडल्ले अनहुत विवर्सिया

Contd...4

UNIT - IV

I ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ. Yeka vakyan zap boroya एक वक्यन ज़प बोरोय

(5×1=5)

1. ವರ್ಣ ಮಾಲೆಂತ್ ಕಿತ್ಲಿ ವರ್ಣ ಆಸಾತ್?

Varnnamalenth kitli varnn asat?

वर्णमालेन्त किल्लि वर्ण असत

2. ಏಕ್ ವಚನ್ - ಬಹುವಚನಾಕ್ ಉದಾಹರಣ್ ದಿಯಾ.

ek vachan - bahu vachanak udaharann diya

एक वचन - बहुवचनक उदर्ण दिय

3. ಸರ್ವನಾಮ್ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ?

sarvanam mul'lyar kite

सर्वनम मुख्यर किते?

4. ಸ್ವರ್ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ?

swar mul'lyar kite?

स्वर मुख्यर किते?

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5. ನಾಮ್ ಪದ್ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ

nampad mul'lyar kite?

नम्पद मुख्यर किते?

II ಖಿಂಚಾಯ್ ದೋನ್ ಸವಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ.

(2×5=10)

Khanchay don savalank zapi boroya

कन्चय दोन सावलन्क जापि बोरोया

1. ಕೊಂಕ್ಣೆಚೆಂ ಲಿಂಗಾಂ ಚರ್ಚಾ ಕರಾ.

Konkneche ling charcha kora

कोन्कणोचि लिन्गा चर्चा करा

2. ನಾಮಪದ ಆನಿ ತಾಚೆ ಪ್ರಕಾರ್ ಬರಯಾ

Namapada ani tache prakar boroya

नमापदा अनि तचे प्राकर बोरोया

3. ಕೊಂಕ್ಣೆಚಿ ವರ್ಣಮಾಲಾ ಬರವ್ನ್ ಚರ್ಚಾ ಕರಾ.

Konknechi varnnmala borovn charcha kora.

कोन्कणोचि वर्णमला बोरोव्न चर्च कारा.

ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU
BA/B.Sc./BBA/B.Com./B.C.A FIRST SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
ADDITIONAL ENGLISH
CROSS CULTURAL TEXTS - I

Time : 2 ½ Hours

Max. Marks : 60

UNIT - I (PROSE)**I.A. Answer any TWO of the following in about 100-150 words each: (2x5=10)**

1. How does the author Shashi Tharoor's notion of pluralism manifest in the idea that "you can only speak of [India] in the plural"? Evaluate.
2. What are some clues or key pieces of evidence that Holmes uses to deduce the solution to the mystery in "The Adventure of the Speckled Band".
3. Explain the symbolism behind the title 'The Human Phonograph.' How does this concept relate to the broader themes of identity and communication in the story?
4. Evaluate the role of language and communication in the story, "A Waterfall of Horses".

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B. Answer any ONE of the following in about 250-300 words: (1x10=10)

1. Analyze the protagonist's internal conflict, emotional journey and sentiments towards her husband throughout the story "The Human Phonograph".
2. Critically examine and discuss the overall theme of "A Waterfall of Horses".

UNIT – II (NOVEL)**II. Answer any ONE of the following in about 250-300 words: (1x10=10)**

1. Describe the relationships between the different characters in the novel *The Girl from Nongrim Hills*.
2. Comment on the relationship between Bok and Kitdor in *The Girl from Nongrim Hills*.

UNIT - III (POETRY)**III.A. Annotate any TWO of the following in about 100-150 words each: (2x5=10)**

1. Her monthly drip had disappeared.
 Her no-money man was back home by then—
 ditched and duped by his dancer mistress.
 She forgave that bitch, buried the bad blood
 between, gave him her anklet of rubies to sell
 and begin some business with. He went.
 A week later, she received his body bag
 With the executioner's seal on the toe tag.
2. When I return,
 the colors won't be so brilliant,
 the Jhelum's waters so clean,
 so ultramarine. My love
 so overexposed.

Contd...2

G 740 LAN7.1

And my memory will be a little
out of focus, in it
a giant negative, black
and white, still undeveloped.

3. unless being still would
drive you to madness or
suicide or murder,
don't do it.
unless the sun inside you is
burning your gut,
don't do it.

when it's truly time,
and if you have been chosen.
it will do it by
itself and it will keep on doing it

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B. Answer any TWO of the following in about 100-150 words each: (2x5=10)

1. Who is the target audience of the poem "so you want to be a writer?" What message does the poet convey to the target audience?
2. How does the poem "The Orphan Girl" explore the themes of loneliness and isolation?
3. Compare and contrast the perspectives of the joker and the thief in the poem "All Along the Watch tower". How do their viewpoints shape the narrative?
4. Evaluate the initial emotional state of the protagonist in the poem 'Ms Militancy' comparing it with the change that ensues.

UNIT – IV (Grammar and Writing Skills)

IV.A. Fill in the blanks with appropriate idioms from the options given below. (5x1=5)

1. The iPhone was _____. It really changed the world. (losing touch/left out in the cold/the best thing since sliced bread)
2. I could really use some help but everyone around me has _____. (twisted my arm/face the music/turn a deaf ear)
3. She didn't care about K-pop before but now that it's popular, she's _____. (jumped on the bandwagon/rings a bell/the whole nine yards)
4. I promise, _____, I'll be at your graduation. You can count on it. (come rain or shine/hit the books/play devil's advocate)
5. Not being invited to any of the meetings lately has me feeling _____. (jumped the bandwagon/face the music/left out in the cold)

B. Write a report for the following scenario in about 200 words. (1x5=5)

1. You are a member of the Student Council, and your college conducted a cleanliness drive in the local community. Write a report about the initiative for the College Newsletter.

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**St Aloysius College (Autonomous)
Mangaluru**

**B.A./ B.Com./B.B.A./B.Sc./B.C.A. - Semester I – Degree Examination
November / December 2023**

FRENCH

Time: 2½ hrs.

Max Marks: 60

UNIT - I (PROSE)

I. Répondez en utilisant le pronom EN ou Y. (5x1=5)

1. Est-ce que tu vas au café?
2. Voulez-vous manger un chocolat?
3. Vous allez chez vos parents?
4. Est-ce que vous venez des Etats-Unis ?
5. Tu as acheté des légumes?

II. Répondez en utilisant les Subjectifs. (5x1=5)

1. Tu feras des exercices jusqu'à ce que tu (comprendre) ----- ta leçon.
2. Il est important qu'il (aller)..... à son rendez-vous.
3. Je serai ravi que vous (réussir)son concours
4. Il faut que tu (faire)..... des efforts.
5. Il ne faut pas que tu (parler)..... pendant le cours

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III. Comparez (5x1=5)

1. Le poisson et la viande (+bon)
2. Valérie et Denis chantent. (bien -)
3. Moi et ma sœur chantent (- timide)
4. Ryan et son frère mangent du riz (+)
5. Les chinois et les indiens fabriquent des portables. (=)

IV. Mettez les phrases au futur simple (5x1=5)

1. À la bibliothèque, je (pouvoir) emprunter un livre.
2. Dans un mois ils(partir) à Bordeaux.
3. Demain je----- (voyager) en voiture solaire.
4. Est-ce que vous(aller) à la piscine en été?
5. Quand est-ce que tu(être) à Paris?

V. Répondez aux questions (4x5=20)

1. Expliquez le système éducatif en France.
2. Expliquez le système politique et l'administration de la France.
3. Géographie de la France. Décrivez.
4. Expliquez l'économie en France.

Contd...2

VI. Dialoguez sur le sujet suivant:

(1x5=05)

- a) Vous entrez dans un magasin pour acheter un vêtement. La vendeuse vous accueille. Vous demandez conseil. Vous choisissiez. Vous essayez le vêtement, etc...

Ou

- b) Votre amie va passer un examen ou un entrein pour trouver du travail. Elle n'est pas sûr de lui. Vous le rassurez.

VII. Ecrivez une lettre de demamnde d'emploi

(5)

Vous etes intéressé(e) par l'emploi ci-dessous. Ecrivez au Conseil regional de Bourgogne. RÉGIONAL DE BOURGOGNE Recherche hôtes et hôtesse trilingues, toutes nationalité, pour représenter la region dans les salons internationaux du tourisme.

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(10x1=10)

VII. COMPREHENSION

Faire les magasins à Paris n'est pas seulement à faire des achats dans les boutiques de luxe ou les nombreuses boutiques de. Les petites boutiques, les marchés aux puces coexistent également. On trouve des articles à tous les prix à Paris (cher, bon marché, en promotion, d'occasion). Les Parisiens et les touristes attendent diligemment pour la période de soldes qui commence en été vers les 25, 26 juin et en hiver vers le 8 janvier de chaque année. Les magasins de Paris ouvrent de 10h à 19h et ils sont fermés le dimanche à l'exception des boutiques du Carrousel du Louvre, de l'avenue des Champs-Elysées, du quartier du Marais ou encore de Sèvres-Babylone. Il y a des quartiers commerçants populaires à Paris : À la Rue de Rivoli, vous trouvez des produits des grandes enseignes (habillement, mode) ou les articles de décoration ou de souvenirs (carte postale, magnets pour coller sur le frigo, t-shirt de Paris etc). Au quartier du Louvre-des Tuileries-des Champs-Elysées connu pour être la capitale du luxe et entièrement dédié à la mode et au design vous trouvez les boutiques de grands couturiers (Yves Saint Laurent, Versace, Hermès, Prada...) alors que la rue de la Paix et la Place Vendôme voient une forte concentration des plus grands bijoutiers et joailliers de Paris (Cartier, Mauboussin, Chanel, Van Cleef, Boucheron,...). Au quartier d'Opéra et de Chaussée d'Antin, on trouve des Grands Magasins, le Printemps et les Galeries Lafayette qui se partagent tout le Boulevard Haussmann, véritable symbole de Paris de la Belle époque

Répondez aux questions.

1. Qu'est-ce que c'est la période de soldes?
2. Où trouve-t-on les articles de décoration ou de souvenirs ?
3. Nommez des quartiers commerçants à Paris,
4. À quelle heure les magasins ouvrent et ferment à Paris ?
5. Qu'est-ce que c'est les marchés aux puces ? Complétez.
6. Cartier, Chanel et Van Cleef sont lesfrançais.
(bijouteries/boutiques/articles)
7. J'ai acheté des.....pour mes parents(enseignes/souvenirs/ soldes)
Dites vrai ou faux.
8. On trouve des choses en promotion aussi à Paris.
9. Les boutiques du Carrousel du Louvre ouvrent seulement le dimanche.
10. Ecrivez le synonyme de Brièvement dans le texte.

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**St Aloysius College (Autonomous)
Mangaluru**

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

November / December - 2023

MALAYALAM

Time: 2½ hrs.

Max Marks:60

I. ഒന്നോ രണ്ടോ വാക്യത്തിൽ ഉത്തരമെഴുതുക (4x2=8)

1. മാനിന്റെ രൂപത്തിൽ സീതയുടെ അടുക്കലെത്തിയതാര് ?
2. കേശവൻനായരെ ചതിച്ചതാര്?
3. മുക്കന്റെ മുക്ക് ഒറിജിനലാണെന്ന് മനസ്സിലായതെപ്രകാരം?
4. ചെറുശ്ശേരി കൃഷ്ണഗാഥ രചിച്ചത് ആരുടെ നിർദ്ദേശപ്രകാരമായിരുന്നു?

II. മൂന്നെണ്ണത്തിന് സന്ദർഭവും സാരസ്യവും എഴുതുക (3x5=15)

5. ഇതു കരുതുക കുമലരിലിങ്ങിനെയുള്ള-
വരിങ്ങിരുപത്തൊന്നു വെള്ളം പട വരും
6. ഇവനൊക്കെ കൃഷിക്കാരനാണോ? കൃഷിക്കാരന്റെ ധർമ്മമറിയാമോ...
7. പ്രാവേം പുണ്ടോരെ പ്രാകൃതൻകാണുബോൾ
പ്രാഭൃതം വേണമെന്നുണ്ടു ഞായം
8. “ഞാനെന്നാത്തിനാ പാർട്ടിലൊക്കെ ചേരണത്? ഇനിച്ചു കയ്യേല.”

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

9. സീത ഹനുമാനോട് പറഞ്ഞതെന്തൊക്കെ?
10. വിശ്വവിഖ്യാതമായ മുക്ക്- ഒരാസ്വാദനം തയ്യാറാക്കുക
11. ദ്വാരകയിലേക്ക് പുറപ്പെട്ട കുചേലന്റെ ചിന്തകളെന്തെല്ലാം?
12. കഥാപാത്ര നിരൂപണം നടത്തുക- ഔതക്കുട്ടി, കേശവൻനായർ

IV. നിർദ്ദേശമനുസരിച്ചെഴുതുക (7x1=7)

13. ഓർക്കാപ്പുറത്ത്, തടിതപ്പുക -വാക്യത്തിൽ പ്രയോഗിക്കുക
14. കണ്ടുപിടുത്തം, കവിയിത്രി -പദശുദ്ധി വരുത്തുക
15. ചുവന്ന, പുല്ല് - വിശേഷണപദത്തിനു ഉദാഹരണം എടുത്തെഴുതുക
16. തത്സമം, തത്ഭവം എന്നാലെന്ത്?
17. കണ്ണൂർ, ഓടി - നാമത്തിനു ഉദാഹരണം എടുത്തെഴുതുക
18. എനിക്കു പല ജോലിത്തീരക്കുള്ള ആളാണ്- വാക്യത്തിലെ തെറ്റു തിരുത്തുക
19. എഴുതി, നടന്ന - പൂർണ്ണക്രിയക്കു ഉദാഹരണമെഴുതുക

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**St Aloysius College (Autonomous)
Mangaluru**

**B.A./B.Sc./B.C.A. - Semester I - Degree Examination
November/December - 2023**

ENVIRONMENTAL STUDIES AND VALUE EDUCATION

Time: 2½ hrs.

Max Marks: 60

PART - A

I. Answer any TEN of the following Questions:

(2x10=20)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಹತ್ತು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

- Name the Biodiversity hotspots of India.
ಭಾರತದಲ್ಲರುವ ಜೀವ ವೈವಿಧ್ಯದ ಸೂಕ್ಷ್ಮ ತಾಣಗಳನ್ನು ಹೆಸರಿಸಿ.
- Write any two scopes of environmental studies.
ಪರಿಸರ ಅಧ್ಯಯನದ ಯಾವುದೇ ಎರಡು ವ್ಯಾಪ್ತಿಗಳನ್ನು ಬರೆಯಿರಿ.
- What are greenhouse gases? Mention their significance.
ಹಸಿರು ಮನೆ ಅನಿಲಗಳು ಯಾವುವು? ಅವುಗಳ ಮಹತ್ವವನ್ನು ತಿಳಿಸಿ.
- Write any two effects of air pollution in human beings.
ಮಾತೃನಿರೀಂದ ಮನುಷ್ಯನ ಮೇಲಾಗುವ ಯಾವುದೇ ಎರಡು ಪರಿಣಾಮಗಳನ್ನು ಬರೆಯಿರಿ.
- What is smog? How it is created?
ಸ್ಮೋಗ್ ಎಂದರೇನು? ಅದು ಹೇಗೆ ಉಂಟಾಗುತ್ತದೆ?
- What is genetic diversity? **ST ALOYSIUS COLLEGE LIBRARY**
ಅನುವಂಶಿಕ ವೈವಿಧ್ಯತೆ ಎಂದರೇನು? **MANGALURU - 575 003**
- What is Montreal protocol?
ಮಾಂಟ್ರಿಯಲ್ ಪ್ರೋಟೋಕಾಲ್ ಎಂದರೇನು?
- Give four examples for Natural disasters.
ನೈಸರ್ಗಿಕ ವಿಪತ್ತುಗಳ ನಾಲ್ಕು ಉದಾಹರಣೆಗಳನ್ನು ನೀಡಿ.
- Write any two methods of wasteland reclamation.
ಬಂಜರುಭೂಮಿಯ ಸುಧಾರಿಸುವಿಕೆಗೆ ಯಾವುದಾದರೂ ಎರಡು ವಿಧಾನಗಳನ್ನು ಬರೆಯಿರಿ.
- What is environmental ethics? Write any two importance.
ಪರಿಸರ ನೀತಿಶಾಸ್ತ್ರ ಎಂದರೇನು? ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಾಮುಖ್ಯತೆಯನ್ನು ಬರೆಯಿರಿ.
- What is an Appiko movement? When it started?
ಅಪ್ಪಿಕೊ ಆಂದೋಲನ ಎಂದರೇನು? ಯಾವಾಗ ಆರಂಭವಾಯಿತು?
- Define endangered and endemic species.
ಅಪಾಯನಿರೀಕ್ಷಿಸಲ್ಪಡುವ ಮತ್ತು ಸ್ಥಳೀಯ ಪ್ರಭೇದಗಳೆಂದರೇನು?

II. Answer any THREE of the following questions

(5x3=15)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

- What is Food chain? Explain its type.
ಆಹಾರ ಸರಪಳಿ ಎಂದರೇನು? ಅದರ ಪ್ರಕಾರಗಳನ್ನು ವಿವರಿಸಿ.

Contd...2

14. Explain the effect and control measures of water pollution.

ಜಲ ಮಾಲಿನ್ಯದ ಪರಿಣಾಮ ಮತ್ತು ನಿಯಂತ್ರಣ ಕ್ರಮಗಳನ್ನು ವಿವರಿಸಿ.

15. What are the different threats to biodiversity?

ಜೀವ ವೈವಿಧ್ಯಕ್ಕೆ ಇರುವ ವಿವಿಧ ಬೆದಲಕೆಗಳು ಯಾವುವು?

16. Write note on Wildlife (Protection) Act, 1972.

ವನ್ಯಜೀವಿ ಸಂರಕ್ಷಣಾ ಕಾಯ್ದೆ, 1972 ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

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III. Answer any ONE of the following questions

(1x10=10)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ.

17. What is soil? Add a note on soil erosion types. Give an account on soil conservation methods.

ಮಣ್ಣು ಎಂದರೇನು? ಮಣ್ಣಿನ ನವೀಕರಣ ವಿಧಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಸೇರಿಸಿ. ಮಣ್ಣಿನ ಸಂರಕ್ಷಣಾ ವಿಧಾನಗಳನ್ನು ವಿವರಿಸಿ.

18. What is meant by biogeographical classification? Explain biogeographical zones of India.

ಭೂಜೈವಿಕ ವರ್ಗೀಕರಣವೆಂದರೇನು? ಭಾರತದ ಭೂಜೈವಿಕ ವಲಯಗಳನ್ನು ವಿವರಿಸಿ.

19. Write a note on a) Global Warming b) Ozone layer depletion

ಇವುಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ ಅ) ಜಾಗತಿಕ ತಾಪಮಾನ ಏ) ಓಝೋನ್ ಪದರ ನಾಶ

PART - B

VALUE EDUCATION (I semester)

IV. Answer any ONE of the following in not less than a page.

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು ಒಂದು ಪುಟಕ್ಕೆ ಮೀರದಂತೆ ಬರೆಯಿರಿ. (5x1=5)

20. Explain the vision, mission and motto of the St. Aloysius College.

ಸ್ಟೇಟ್ ಆಲೋಶಿಯಸ್ ಕಾಲೇಜಿನ ದೃಷ್ಟಿ, ಧ್ಯೇಯ ಮತ್ತು ಗುರಿಯನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

21. What are the needs for right self-esteem?

ಸರಿಯಾದ ಸ್ವಾಭಿಮಾನದ ಅಗತ್ಯತೆಗಳನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

V. Answer any ONE of the following in not less than two pages.

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು ಎರಡು ಪುಟಕ್ಕೆ ಮೀರದಂತೆ ಬರೆಯಿರಿ. (10x1=10)

22. What is meant by self-discipline? Explain the importance and elements of self-discipline.

ಸ್ವಯಂ ಶಿಸ್ತು ಎಂದರೆ ಏನು? ಸ್ವಯಂ ಶಿಸ್ತಿನ ಪ್ರಾಮುಖ್ಯತೆ ಮತ್ತು ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

23. What is time management? Explain the strategies for effective time management.

ಸಮಯ ನಿರ್ವಹಣೆ ಎಂದರೇನು? ಪರಿಣಾಮಕಾರಿ ಸಮಯ ನಿರ್ವಹಣೆಗಾಗಿ ತಂತ್ರಗಳನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.
