

(2024 Batch Onwards)

AH4CUDC104

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St Aloysius (Deemed To Be University)

Mangaluru

B.Sc. - Semester I – Degree Examination

November - 2024

ECONOMICS – I(a)

MICRO ECONOMICS

Time: 2½ hrs.

Max Marks: 60

PART - A

I Answer any FIVE of the following.

(2×5=10)

1. Distinguish between partial and general equilibrium.
2. Who is an economist?
3. Distinguish between cardinal and ordinal utility.
4. Distinguish between economies and diseconomies of scale.
5. Give the meaning of law of equi-marginal utility.
6. What is production function?
7. Give the meaning of monopolistic competition.
8. What is asymmetric information?

PART – B

II Answer any SIX of the following.

(5×6=30)

9. Write a note on the basic problems of an economy.
10. Briefly explain the concept of consumers surplus.
11. Explain the degrees of price elasticity.
12. Briefly explain the law of supply.
13. Write a note on various types of costs.
14. Briefly explain the relationship between AR and MR under perfect competition.
15. Explain the features of perfect competition.
16. Write a note on oligopoly.
17. Briefly explain the theory of efficient market hypothesis.

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PART – C

III Answer any TWO of the following,

(10×2=20)

18. Explain the law of diminishing marginal utility.
19. Explain the law of demand.
20. Explain the law of variable proportions.
21. Explain the price output determination under monopoly.

(2024 Batch onwards)

AH4GUDC110/AH4HUDC111

Reg No

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St Aloysius (Deemed to be University)
Mangaluru
B.A./B.Sc. Semester I - Degree Examination
November - 2024
PSYCHOLOGY
FOUNDATIONS OF BEHAVIOUR - I

Time : 2 ½ Hours

Max. Marks : 60

PART - A

I Answer any FIVE questions from the following:

(2×5=10)

1. What was Wilhelm Wundt's contribution to Psychology?
2. What forms the link between brain and the endocrine system?
3. What is Transduction?
4. Mention the activities that result in manipulation of information.
5. What is parasympathetic rebound?
6. What are the goals of psychology?

PART - B

II Answer any TWO questions in not more than a page each.

(5×2=10)

7. Explain the process of experimental research method.
8. Write a note on neurotransmitters.
9. How did the gestalt psychologists illustrate with simple dots the principles of form perception?

III Answer the following questions in not more than three pages each. (10×4=40)

10.a. Explain the ethical principles in psychological research. ST ALOYSIUS COLLEGE LIBRARY

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OR

b. Compare and contrast the contributions of the historical schools of Psychology to the development of Psychology as a field of study.

11.a. Endocrine Glands produce behaviour by way of Hormones. Explain.

OR

b. Explain the structure and functions of neuron with the help of a diagram.

12.a. Extrasensory perceptions go beyond the five senses. Explain.

OR

b. What is depth perception? Explain the monocular and binocular cues of depth perception.

13.a. Explain the obstacles to problem solving.

OR

b. Trace the events that led to cognitive revolution.

(2024 Batch onwards)

AH4JUDC113

Reg. No.

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St Aloysius (Deemed to be University), Mangaluru

B.Sc.(Visual Communication) Semester I – Degree Examination

November- 2024

Introduction to Visual Communication

Time: 2½ hrs.

Max Marks: 60

SECTION - A

Write short note in 2 to 3 sentences on any FIVE of the following (5x2=10)

1. Briefly explain the elements of communication.
2. Define creative thinking.
3. Compare and contrast the use of geometric shapes and organic shapes in two different artworks, highlighting how they contribute to the overall composition.
4. Explain the difference between a visual illusion and a cognitive illusion.
5. Provide an example of how effective communication can improve workplace productivity.
6. Explain how context influences the meaning of the color red.
7. What makes a photograph appealing?

SECTION - B

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

8. Discuss the significance of cultural perception in shaping how individuals interpret sensory information. How can cultural differences influence perceptions of taste, smell, and social cues?
9. Explain the key differences between verbal and non-verbal communication. Provide examples of situations where non-verbal communication plays a more significant role than verbal communication, and vice versa.
10. "Radio is the visual medium of the mind"—elaborate.
11. Describe a scenario where "Continuity" is essential in graphic design. How can a designer use continuity to guide the viewer's eye and convey a message effectively?
12. How do the human eyes function? Elaborate.

SECTION - C

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Write a detailed note on any TWO of the following in 500– 700 words each (2x15=30)

13. Critically assess the impact of technology on communication. How has the rise of digital communication platforms affected the way people interact and convey information?
14. Compare and contrast verbal communication with visual communication, highlighting their unique characteristics and applications where visual communication plays a vital role.
15. Examine the Gestalt principles in detail. Provide a comprehensive explanation of how these laws influence our perception of visual elements and how they can be applied in design and communication.

(2024 Batch onwards)

AH4JUDC114

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc.(Visual Communication) Semester I – Degree Examination

November- 2024

Fundamentals of Photography

Time: 2½ hrs.

Max Marks: 60

SECTION - A

Write short note in 2 to 3 sentences on any FIVE of the following (5x2=10)

1. What are some types of photography?
2. List different types of cameras
3. What are primary colors in Color wheel?
4. What are some key techniques for effective mobile photography?
5. What is the effect of increasing the ISO setting on image quality?
6. Explain the relationship between aperture and depth of field.
7. What is the purpose of a PNG image file?

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SECTION - B

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

8. Discuss the significance of Homai Vyarawalla's work in the context of Indian photography and analyse specific themes in her photography
9. What are highlights and shadows in the context of photography?
10. Analyze the impact of significant technological advancements on photography.
11. Explain the impact of social media on the evolution of visual storytelling
12. Analyze the elements of visual storytelling, including composition, lighting, color, and perspective.

SECTION - C

Write a detailed note on any TWO of the following in 500– 700 words each (2x15=30)

13. What are fundamentals of exposure in photography, focusing on aperture, shutter speed, and ISO. Explain how these settings interact with each other and how they can be used to achieve different creative effects.
14. Analyze the impact of perspective, point of view, and focal length on photographic composition with relevant examples
15. Define photography and discuss its nature, scope, and functions

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AH4JUDC115

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc.(Visual Communication) Semester I – Degree Examination

November- 2024

Visual Design

Time: 2½ hrs.

Max Marks: 60

SECTION - A

Write short note in 2 to 3 sentences on any FIVE of the following (5x2=10)

1. Design documentation
2. Figure-ground
3. McDonald campaign logo
4. Variety
5. Difference between form and shape
6. Space impact in visual hierarchy
7. Colour value

SECTION - B

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

8. How does the artist's color wheel help in mixing colors and creating harmonious compositions?
9. List out the elements of design with appropriate examples.
10. Mention the pros and cons of AI usage in graphic design
11. Explain the principle of visual gravity with suitable example
12. How will you distinguish between multiple focal points in a crowded composition?

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SECTION - C

Write a detailed note on any TWO of the following in 500– 700 words each (2x15=30)

13. Why is negative space important in design?
14. In what ways can texture contribute to the perception of form and space?
15. Discuss on the role of colour in product packaging with suitable examples

(2024 Batch onwards)

IT3BUDC100

Reg No

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St Aloysius (Deemed to be University)
Mangaluru
B.A./B.Sc. Semester I - Degree Examination
November - 2024
COMPUTER ANIMATION
GRAPHIC DESIGN FOR ANIMATION

Time : 2 ½ Hours

Max. Marks : 60

SECTION - A

Answer any **FIVE** of the following.

(5×2=10)

1. How to group the layers?
2. What is the use of Smudge tool?
3. Name any 2 vector formats.
4. What is the color mode of Photoshop & CorelDraw?
5. How to save GIF images?
6. What is the use of Cusp?
7. Name any four layer styles.

SECTION - B

Answer any **FOUR** of the following.

(4×5=20)

8. Explain the elements of graphic design.
9. How to use mask type tool? Explain with example.
10. How to add text on path in CorelDraw?
11. Design Photoshop layout & name the different bars in it.
12. What are the features of Photoshop?
13. Write a note on Photoshop file formats.

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SECTION - C

Answer any **TWO** of the following.

(2×15=30)

14. Explain briefly about Graphic Design.
15. Write any 20 tools of photoshop.
16. What are the differences between vector and Bitmap graphics?

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IT3CUDC100

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November - 2024

COMPUTER SCIENCE

COMPUTER FUNDAMENTALS AND PROGRAMMING IN C

Time: 2½ Hours.

Max Marks: 60

PART –A

1. Answer any **SIX** of the following. (6x2=12)
- Briefly explain the difference between RAM (Random Access Memory) and ROM (Read-Only Memory) in a computer system.
 - What is meant by Algorithm in Computer Program?
 - Write any two rules to followed while creating variable names.
 - Write the precedence of Arithmetic operators in C.
 - Give any one example showing the declaration and initialization of a string variable.
 - Compare entry controlled and exit controlled loop statements.
 - Mention two different types of return statements.
 - What are user defined functions?

PART –B

Answer any **ONE FULL** question from each unit. (4x12=48)

UNIT - I

2. a) Write a C program to find the roots of a quadratic equation. (6)
- b) Convert
- Octal 77.54 to Hexadecimal
 - Decimal 100.25 to Binary
 - Binary 10010.01 to Octal.
- STALOYSIUS COLLEGE LIBRARY**
MANGALURU - 575 003 (6)

OR

3. a) Explain the different categories of Computer Software. (6)
- b) Explain the First, Second and Third generation of computers. (6)

UNIT - II

4. a) Explain arithmetic and relational operators in C. (4)
- b) Explain primary data types in C. (4)
- c) Write the syntax of printf () function and explain. Show the different output specifications obtained with the printf () (4)

OR

5. a) Write a note on logical and conditional operator. (4)
- b) Write a short note on putchar () and puts () functions. (4)
- c) Write a note on symbolic constants. (4)

UNIT – III

6. a) How a one-dimensional array is declared and initialized. Explain with an example. (4)
- b) Explain the 'do-while' loop statement with the help of its general format. How it is different from the 'while-do' statement? (4)
- c) Explain any four-string handling functions with syntax and example. (4)

OR

7. a) Define String. How a string variable is declared and initialized? Explain with an example. (4)
- b) Write a C program to add 2 matrices of order 2 X 2 (4)
- c) Explain switch statement with syntax and example. (4)

UNIT – IV

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8. a) Write a structure program to accept student details like name, class and marks in 3 subjects and display the total, average and appropriate grade. (4)
- b) Give an example for array of structures. Explain how the structure members are initialized and accessed. (4)
- c) Explain any two category of user defined functions. (4)

OR

9. a) Write a note on pointer arithmetic. What are the advantages of using pointers? (4)
- b) Write a note on Union. What are its advantages? Explain. (4)
- c) What is recursion? Explain with suitable example. (4)

IT3DUDC100

(2024 Batch Onwards)

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November – 2024

DATA SCIENCE

FUNDAMENTALS OF COMPUTERS

Time: 2 ½ Hours.

Max Marks: 60

PART – A

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

(6x2=12)

- Prove that $x+xy = x$
- Write a note on registers.
- List any two devices that can be used as input as well as output devices
- List the three types of programming language.
- What is the significance of ALU in CPU?
- Write the truth table and logic symbol of XOR gate
- Differentiate between system software and application software
- Write the decimal equivalent of a binary number $(101101.10101)_2$.

PART – B

Answer any **ONE FULL** question from each unit 12 marks each. (4x12=48)

UNIT – I

- Explain the characteristics of computers. (4)
 - Discuss any four application of computers in different fields. (4)
 - Explain the characteristics of different generations of computers. (4)

- Explain the functions of operating systems. (4)
 - Explain different set of keys available in the keyboard. (4)
 - Explain the components of the CPU (4)

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UNIT – II

- Explain the process of developing a program step by step. (4)
 - Explain the benefits and limitations of pseudocode (4)
 - Write a note on the following: (4)
 - Device Drivers
 - Language Translators

- Explain the salient features of good programming language. (4)
 - Explain the steps involved in problem solving procedure (4)
 - Differentiate between hardware and software. (4)

UNIT – III

- Convert the following: $(F2B5.E54)_{16}$ to Octal (4)
 - State and prove Associative law. (4)
 - Perform the following conversion (4)
 - $(122.6875)_{10}$ to binary
 - $(56.375)_8$ to decimal

Contd...2

7. a) Perform the following subtraction using 1's complement (4)
- $(28)_{10} - (19)_{10}$
 - $(1101)_2 - (1010)_2$
 - $(111)_2 - (1001)_2$
- b) Perform the following subtraction using 2's complement method (4)
- $(48)_{10} - (28)_{10}$
 - $(1010100)_2 - (1000011)_2$
- c) Perform the following Conversion (4)
- $(1010101101001)_2 = (?)_{16}$
 - $(3A9E.B0D)_{16} = (?)_2$
 - $(001010111100)_2 = (?)_8$
 - $(367.52)_8 = (?)_2$

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UNIT - IV

8. a) Explain the working of D flip flop using NAND gate. (4)
- b) Simplify the following Boolean function $f(A,B,C,D)$
 $=\Sigma(0,1,2,4,5,6,8,9,12,13,14)$ using K-map (4)
- c) With neat diagram, Explain the working of full adder with its truth table. (4)
9. a) Write the truth table and logic circuit for the Boolean function (4)
- $$F_1 = xyz' + x'y'z$$
- $$F_2 = x'y'z + x'yz + xy'$$
- b) Prove that the NAND gate is a universal gate by constructing the basic logic gates using NAND gate. (4)
- c) Obtain the truth table of the function and express the Boolean function $F(a, b, c) = a + b'c$ as the sum of minterms. (4)

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November – 2024

DATA SCIENCE

PROGRAMMING IN C

Time: 2 ½ Hours.

Max Marks: 60

PART – A

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

(6x2=12)

- a) What is the purpose of sizeof() operator?
- b) What are comments? How to add comments in C programs?
- c) Distinguish between structures and unions.
- d) Differentiate between scanf() and gets() functions.
- e) What is a function declaration? Give example.
- f) How do you initialize the two-dimensional array?
- g) What is a pointer? How is pointer variable declared?
- h) What is the difference between = and == operators?

PART – B

Answer any **ONE FULL** question from each unit 12 marks each. (4x12=48)

UNIT – I

2. a) Write basic structure of C program with example. (4)
- b) What are constants? Explain different types of constants? (4)
- c) Write a note on getchar, putchar, gets and puts functions. (4)
3. a) Explain the fundamental data types available in C. (4)
- b) What is an identifier? Explain the rules to be followed while declaring identifiers. (4)
- c) Write a C program to find area of rectangle. (4)

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UNIT – II

4. a) Explain switch statement with syntax and example. (4)
- b) Explain Relational Operator with example. (4)
- c) Explain if..else statement with syntax and example. (4)
5. a) Explain arithmetic operator with example. (4)
- b) What are looping statements? Explain do-while loop with example. (4)
- c) Write a C program to check whether a number is prime or not. (4)

UNIT – III

6. a) What is an array? How do you declare and initialize one dimensional array? (4)
- b) With the following declarations:
int x, y, a[10], *p1, *p2;
Which of the following statements are invalid? Why? (4)
- (i) *p1 = &x; (ii) p1 = y; (iii) p2 = a; (iv) p1 = &x;
- c) Explain any four string handling functions available in C with example. (4)

Contd...2

IT3DUDC101

7. a) Illustrate the memory representation of one-dimensional array with example. (4)
- b) Explain any four-character handling functions. (4)
- c) Explain array of pointer with example. (4)

UNIT - IV

8. a) Give structure declaration for a student with members id, name, avg and department. Also initialize structure members. (4)
- b) Explain any two category of user defined functions with example. (4)
- c) Write a note on union. (4)
9. a) Program to display factorial of first 'n' integers using recursive function. (4)
- b) What is user defined function? Explain the general syntax of a user defined function with an example. (4)
- c) What is a structure? How to define and access structure variable in C? (4)

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(2024 Batch Onwards)

IT3DUDC102

Reg. No.:

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November – 2024

DATA SCIENCE

MATHEMATICAL FOUNDATION

Time: 2 ½ Hours.

Max Marks: 60

PART – A

1. Answer any **SIX** of the following. (6x2=12)

- What is symmetric matrix? Give Example.
- Calculate the determinant of the matrix. $\begin{bmatrix} 9 & 3 \\ 2 & 4 \end{bmatrix}$
- Write the formula to find area of a triangle?
- What is the formula used to find the coordinates of a point that divides a line segment joining two given points internally in a specified ratio?
- Identify if the following expression is tautology or not $p \rightarrow (p \wedge q)$.
- Construct a truth table for the biconditional $p \leftrightarrow q$ (if and only if p, then q).
- Find $\int 5x^2 dx$
- Find $\int \sin x dx$ and $\int \cos x dx$

PART – B

Answer any **ONE FULL** question from each unit 12 marks each. (4x12=48)

UNIT – I

- Find the Eigen Values of $A = \begin{bmatrix} -4 & -1 \\ 6 & 1 \end{bmatrix}$ (4)
 - Find the inverse of the Matrix $\begin{bmatrix} 7 & -6 & 3 \\ 4 & -5 & -4 \\ 2 & 1 & 8 \end{bmatrix}$ (4)
 - P.T $\frac{\log\sqrt{27} + \log\sqrt{8} - \log\sqrt{125}}{\log\sqrt{6} - \log\sqrt{5}} = \frac{3}{2}$ (4)

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3. a) Solve the following system of equations using Cramer's Rule:

$$-2x - y - 3z = 3$$

$$2x - 3y + z = -13$$

$$2x - 3z = -11$$

(4)

b) If $A = \begin{bmatrix} 2 & -1 \\ -1 & 2 \end{bmatrix}$ verify Caley Hamilton Theorem. (4)

c) Show that $2 \log \frac{6}{7} + \frac{1}{2} \log \frac{81}{10} + \log \frac{196}{27} = \log 12$ (4)

UNIT – II

4. a) Find the equation of the tangent to the circle.

$$x^2 + y^2 + 8x + 10y - 105 \text{ at } (1,6)$$

(4)

b) Find the center and radius of the circle given by the equation:

$$x^2 + y^2 + 6x - 4y - 12 = 0$$

(4)

c) Given the vertices of a triangle $P(3,2)$, $Q(6,5)$, $R(3,6)$ determine whether the triangle is right-angled triangle. (4)

Contd...2

5. a) Find the equation of the tangent to the circle:
 $x^2 + y^2 + 8x - 6y + 9 = 0$ at the point $(-4,3)$ (4)
- b) Find the equation of the line passing through $(3,7)$ that is:
 (a) Parallel to the line $x+2y=4$.
 (b) Perpendicular to the line $x+2y=4$ (4)
- c) Determine the area of the rhombus with vertices at $(1,1), (-2,3), (-4,-2), (1,-5)$ (4)

UNIT - III

6. a) If $\cos \theta = \frac{3}{5}$, $270 < \theta < 360$. Find $\frac{\sin \theta + \cos \theta - \tan \theta}{\sec \theta + \operatorname{cosec} \theta - \cot \theta}$ (4)
- b) Prove that $\tan^2 60^\circ - 2 \tan^2 45^\circ = \cot^2 30^\circ - 2 \sin^2 30^\circ - \frac{3}{4} \operatorname{cosec}^2 45^\circ$ (4)
- c) Construct truth table for following $(\sim p \wedge \sim q) \vee (\sim p \vee q) \vee \sim q$ (4)
7. a) Find value of x if $x \sin 30^\circ \cos^2 45^\circ = \frac{\cot^2 30^\circ \sec 60^\circ \tan 45^\circ}{\operatorname{cosec}^2 45^\circ \operatorname{cosec} 30^\circ}$ (4)
- b) If $\tan \theta = \frac{-3}{4}$, $\frac{\pi}{2} < \theta < \pi$ find $\frac{5 \cos \theta + 8 \tan \theta}{8 \sec \theta - 3 \operatorname{cosec} \theta}$ (4)
- c) Prove that $P \wedge Q$ is logically equivalent to $\sim(\sim p \wedge \sim q)$ (4)

UNIT - IV

8. a) Differentiate $9x^4 - 7x^3 + 8x^2 - \frac{8}{x} + \frac{10}{x^3}$ with respect to x . (4)
- b) Given $f(x) = 2x^2 + x$ Show that $\frac{f(a+b) - f(a)}{b} = 4a + 2b + 1$ (4)
- c) Solve $\int (4x^3 + 3x^2 - 2x + 5) dy$. (4)

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9. a) Evaluate $\lim_{x \rightarrow 2} \frac{x^3 - 8}{x - 2}$ (4)
- b) Differentiate $f(x) = \frac{4x^3 - 3x + 1}{x^3 + x}$ with respect to x . (4)
- c) Solve $\int (1 - 3x)(1 + x) dx$ (4)

(2024 batch onwards)

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November - 2024

BOTANY – I

Microbial Diversity and Technology

Time: 2½ hrs.

Max Marks: 60

Instructions: Answer all the three sections - A, B and C

Draw Diagrams wherever necessary.

SECTION – A

I. Define/Answer any TEN of the following:

(10x2=20)

1. List out any two contributions of Dmitri Iwanowski.
2. Give any two examples for soil borne microbes.
3. What is the significance of doing pasteurization?
4. Mention the types of culture collections with an example.
5. What are autotrophic bacteria?
6. What is capsid? Where it is found?
7. Write the causal organism and symptoms of root knot of tomato.
8. What are basidia?
9. What is endospore? Mention the significance.
10. Mention the fundamental working principle of a transmission electron microscope.
11. Write two features of Actinomycetes.
12. What are Deuteromycetes?

SECTION – B

II. Answer any FOUR of the following.

(4x5=20)

1. Describe the structure of Potato Spindle Tuber Viroid.
2. Write short notes on Mycoplasmas.
3. Give an account of endomycorrhizae.
4. Explain the morphology of a sexual stage in *Penicillium*.
5. Describe any five beneficial aspects of fungi.
6. Write a note on the various habitats of microorganisms with examples.

SECTION – C

III. Answer any TWO of the following.

(2x10=20)

1. With a help of a neat labeled diagram, explain the ultrastructure of bacterial cell.
2. Explain the following:
 - a. Growth curve in microbes
 - b. Microbial growth measurement
3. Explain the significance of microbiological staining techniques. Write a note on any two types of staining techniques and their applications.
4. Explain the lifecycle of *Puccinia* in wheat plant.

St Aloysius (Deemed to be University)
Mangaluru
B.Sc. Semester I - Degree Examination
November - 2024
Zoology-I
Cytology, Genetics and Infectious Diseases

Time : 2 ½ Hours

Max. Marks : 60

Instructions: Draw Diagrams wherever necessary.

Answer all three sections- A, B, and C.

SECTION - A

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

- a) Define the fluid mosaic model of the plasma membrane. What are its key components?
- b) Mention the functions of ribosomes.
- c) What is the location of the electron transport chain in mitochondria? And which molecule serves as the final electron acceptor in the electron transport system (ETS)?
- d) Mention any two functions of Nuclear envelope.
- e) Name the components of a nucleotide.
- f) Name the proteins used in higher order condensation of chromosomes.
- g) What is haplodiploidy? Give an example.
- h) Define codominance.
 - i) Give an example of how the law of dominance works in pea plants.
 - j) List two examples of structural chromosomal anomalies in humans.
- k) What is autosomal dominant inheritance? Give an example.
- l) Name the primary and secondary hosts of malarial parasite.

SECTION - B

Answer any **FOUR** of the following. (4×5=20)

2. Explain the process of co-translational translocation. STALOYSIUS COLLEGE LIBRARY
3. Elucidate on cell signalling taking neurons as an example. MANGALURU - 575 003
4. Differentiate between expressivity and penetrance.
5. Choose a genetic disorder and use pedigree analysis to illustrate how it is inherited within a family.
6. Discuss the historical development of cell theory, including the contributions of key scientists.
7. Elaborate on structure of DNA with diagram.

SECTION - C

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

8. Compare the structure and functions of microtubules, microfilaments, and intermediate filaments.
9. Describe the steps of mitosis and their significance with diagrams
10. Describe how traits can be influenced by sex and the environment, using real-life examples to explain sex-limited and sex-influenced traits.
11. Compare and contrast the major differences between viral, bacterial, fungal, and protozoan pathogens, including their modes of transmission and pathogenicity.

(2024 batch onwards)

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November -2024

BIOTECHNOLOGY - I

CELL BIOLOGY AND GENETICS

Time: 2½ Hours

Max. Marks: 60

- Instructions: i) Answer all three sections - A, B and C.
ii) Draw diagrams wherever necessary.

SECTION - A

1. Define/Answer any **TEN** of the following: (10x2=20)

- a) Define cell theory.
- b) Mention the role of lysozymes in the protection of the cell.
- c) What are Flagella?
- d) What is secondary constriction, and how does it differ from the primary constriction?
- e) Name the four types of chromosomes based on centromere position.
- f) What is the composition of chromosomes?
- g) What is a Back cross?
- h) What are Non allelic gene interactions?
- i) Define terms pure and hybrid.
- j) Write the risks associated with amniocentesis.
- k) What are missense mutations?
- l) Name two common medical complications associated with Down's syndrome.

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SECTION - B

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

2. Explain the different types of vacuoles.
3. Describe the structure and functions of chloroplast.
4. Draw a simple diagram showing the stages of mitosis and add a note on its significance.
5. What are complementary genes? Explain with an example.
6. Analyse the role of ultrasonography and fetal echocardiography in identifying genetic abnormalities.
7. Explain the difference between complete and incomplete linkage? Give examples.

SECTION - C

Answer any **TWO** of the following: (2x10=20)

8. Illustrate the ultrastructure of the Nucleus and comment on its importance in the cell.
9. Describe the stages of prophase I of meiosis.
10. Explain multiple allelism with an example.
11. Describe the structural and numerical aberrations associated with aneuploidy. Provide specific examples.

(2024 Batch Onwards)

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St Aloysius (Deemed To Be University)

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B.Sc. Semester I – Degree Examination

November - 2024

MICROBIOLOGY – I

GENERAL MICROBIOLOGY

Time: 2½ hrs.

Max Marks: 60

Instructions: Draw Diagrams wherever necessary.

Answer all three sections- A, B, and C.

SECTION-A

1. Define/Answer any TEN of the following: (10x2=20)
- What is the function of a Condensor in compound microscope?
 - List the two important functions of a microscope.
 - Expand TEM.
 - List two differential stains and the organisms for which it is used.
 - Define simple staining.
 - Define streak plate method.
 - Define transformation.
 - Define extrachromosomal material and its use.
 - Define mesosomes.
 - Eukaryotic cell.
 - Lipid bilayer.
 - Chloroplasts.

SECTION – B

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

- Describe Koch's postulates.
- Write about transport media with examples. ST ALOYSIUS COLLEGE LIBRARY
- Write a note on Tyndallization. MANGALURU – 575 003
- Describe the Bacterial endospore with a neat labelled diagram.
- Describe the Gram negative cell wall.
- Discuss the structure and function of eukaryotic ribosomes.

SECTION - C

Answer any TWO of the following. (2x10=20)

- Elaborate the landmark contributions of Louis Pasteur towards Microbiology.
- Define Disinfectants. Discuss the chemical methods of sterilization.
- Describe the morphology and arrangements in a prokaryotic cell.
- Summarise Eukaryotic cell ultrastructure in detail.

St Aloysius (Deemed to be University)
Mangaluru
Semester I - B.Sc. Biochemistry
November - 2024
Fundamentals of Biochemistry-I

Max. Marks : 60

Time : 2 ½ Hours

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

SECTION - A

(10×2=20)

1. Answer any **TEN** of the following:
- What does ppm stand for and write its importance
 - Differentiate between CGS and SI systems.
 - Write the structural difference between chitin and cellulose.
 - Differentiate between nucleoside & nucleotide
 - Write the biological role of lipids
 - How would you classify a fatty acid that contain double bonds?
 - What is protein denaturation and renaturation?
 - Mention the SI prefixes of Nano & Micro
 - What is one mole of a substance?
 - Convert 500 milliliters to liters.
 - Mention the carbon position of glycosidic bond in DNA.
 - Define mutarotation and write its significance .

SECTION - B

(4×5=20)

Answer any **FOUR** of the following.

- Explain the structures & biological functions of cephalin.
- Discuss on classification of carbohydrates with example.
- Discuss the use of dansyl chloride and flouro dinitro benzene in amino acid analysis.
- Classify amino acids based on polarity and provide examples.
- Calculate the molarity of a solution prepared by dissolving 10 grams of NaCl in 500 mL of water.
- Briefly explain the chemical bonds of DNA

SECTION - C ST ALOYSIUS COLLEGE LIBRARY

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(2×10=20)

Answer any **TWO** of the following .

- Explain the chemical reaction ons of aldose and ketose sugars.
- Compare and contrast the structure and biological roles of phospholipids and sphingolipids.
- Discuss the various roles of nucleotides, including their functions as a source of energy, components of coenzymes, and secondary messengers.
- Explain the forces that stabilizes the structure of protein

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B.Sc. Semester I – Degree Examination

November – 2024

FOOD SCIENCE - I

FUNDAMENTALS OF FOOD SCIENCE AND NUTRITION

Max. Marks: 60

Time: 2½ Hours

Note: i) Answer all three sections – A, B, C.

ii) Draw diagrams wherever necessary.

SECTION – A

1. Define/Answer any **TEN** of the following.

(2×10=20)

- Give examples for dry method of cooking.
- What is the primary function of food in the human body?
- Name the types of fat in meat.
- What are the factors affecting on the preservation of pulses?
- Name two antinutritional factor commonly found in pulses.
- State two benefits of consuming vitamin C-rich fruits.
- State the importance of RDA in child nutrition.
- State the role of water as a macronutrient in the human body.
- Why is fish called as 'Rich food for poor people'?
- Give two examples of foods high in protein.
- Describe the term 'antinutritional factor'.
- Give the three types of fat in meat.

SECTION – B

Answer any **FOUR** of the following.

(5×4=20)

- Define milk and give its nutritional composition.
- Describe the role of enzyme inhibitors found in pulses and their impact on protein digestion.
- Explain the structure of egg with a diagram.
- Give the principles of meal planning.
- Give the importance of micronutrients.
- Give the methods of cooking.

SECTION – C

Answer any **TWO** of the following:

(10×2=20)

- Give the processing of milk. Explain two methods of milk preservation.
- Define egg and its classification. Give two egg preservation methods.
- Explain the nutritional composition and antinutritional factors of pulses.
- Give the processing of meat. Mention the classification of red meat.

(2024 Batch Onwards)

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B.Sc. Semester I – Degree Examination

November - 2024

PHYSICS

MECHANICS AND PROPERTIES OF MATTER

Time: 2½ hrs.

Max Marks: 60

SECTION – A

I. Answer any TEN of the following.

(2x10=20)

- 1) Define stress and write its unit.
- 2) Define i) longitudinal strain ii) volume strain
- 3) Define radius of gyration.
- 4) State and explain Hooke's Law.
- 5) Define surface tension. Why antiseptics have low surface tension?
- 6) Define coefficient of viscosity of a liquid and write its S.I unit.
- 7) Define forces of cohesion and adhesion.
- 8) What is physical quantity? Mention any two physical quantities.
- 9) Give the statement for the law of conservation of angular momentum.
- 10) Briefly explain the Kepler's second law of planetary motion.
- 11) Give the relation between relativistic energy and momentum.
- 12) What was the significance of the null result obtained in the Michelson-Morley experiment?

SECTION – B

II Answer any FOUR of the following.

(5x4=20)

- 1) Derive an expression for the work done in stretching a wire.
- 2) Give the theory of motion of a particle in a uniformly accelerated frame of reference.
- 3) Derive the relation between Young's modulus q , rigidity modulus η and bulk modulus k .
- 4) Derive expression for excess pressure inside a liquid drop.
- 5) Derive expression for kinetic energy of an object which is rotated about an axis.
- 6) Obtain relativistic law of addition of velocities using Lorentz transformation equations.

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SECTION – C

III Answer any TWO of the following.

(10x2=20)

1.a) Derive an equation for the rocket's final velocity.

(6)

b) Calculate the work done to break up a bigger water drop of radius 8×10^{-3} m into n number of smaller water drops each of radius 2×10^{-3} m.

The surface tension of water is 0.06 Nm^{-1}

(4)

Contd...2

- 2.a) Explain Galilean invariance of space. (6)
- b) A wire of length 4m and area of cross section $5 \times 10^{-7} \text{m}^2$ is fixed to one end. A load of mass 2.5kg is applied to the other end and hung freely. If the elongation of the wire is 10^{-3}m , calculate i) stress ii) strain and iii) Young's modulus. (4)
- 3.a) Using stress versus strain graph explain elastic characteristics of materials. (6)
- b) Calculate the mass of the electron when it is moving with a K.E. of 10 MeV. (4)
- 4.a) Derive Stoke's formula for the viscous force on a body falling through a viscous medium. (6)
- b) The density of silver is 10.5g/cm^3 . What is this value in kilograms per cubic meter? (4)

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(2024 Batch Onwards)

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B.Sc. Semester I – Degree Examination

November - 2024

CHEMISTRY - I

Analytical and Organic Chemistry - I

Time: 2½ hrs.

Max Marks: 60

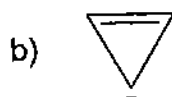
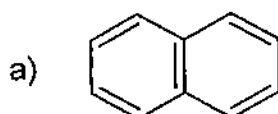
Instructions: Answer all the three sections - A, B and C.

Draw diagrams wherever necessary.

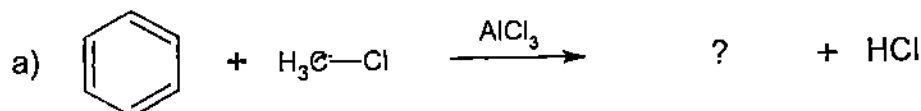
SECTION – A

I. Define/Answer any TEN of the following: (2x10=20)

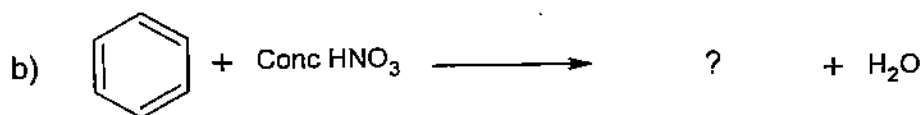
1. Name the types of errors in quantitative analysis.
2. Explain any two applications of fractional distillation.
3. Write the full form of EDTA and give its structural formula.
4. Calculate the mole fraction of ethylene glycol (C₂H₆O₂) in solution containing 20% ethylene glycol by mass.
5. What is carbon free radical? Mention the types and give their order of stability.
6. Predict the aromatic/antiaromatic character for the following compounds.



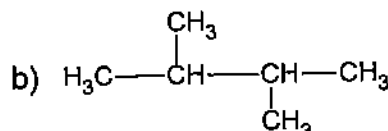
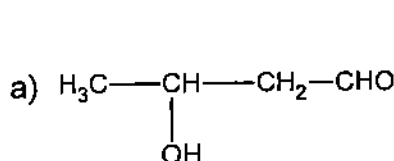
7. Predict the products for the following reactions.



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8. Describe the effect of solvents on nucleophilic substitution reactions.
9. Write the formula for 'f' test and explain its terms.
10. Give two examples for a primary standard.
11. Give the IUPAC name of the following compounds.



12. Give the reaction for Friedel Crafts acylation of benzene.

SECTION – B

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

1. Elaborate the types of tests in qualitative analysis.

Contd...2

2. Explain the titration of a strong acid Vs weak base with the help of a titration curve.
3. Explain the electrophilic addition mechanism of addition of HBr to propene.
4. How do you convert p-chloronitrobenzene to p-nitrophenol? Give the mechanism.
5. Explain any two applications of solvent extraction.
6. Explain 1,2 hydride shift by taking dehydration of 2-methylbutan-1-ol as an example.

SECTION - C**III. Answer any TWO of the following.****(10x2=20)**

1. a) Elaborate the different steps involved in precipitation method of gravimetric analysis.
b) Explain the concept of co-precipitation and post-precipitation.
2. a) Calculate the cell potential and equilibrium constant (K) for the redox reaction given below:
$$\text{Sn}^{4+} (0.15 \text{ M}) + 2 \text{Cr}^{2+} (0.20 \text{ M}) \rightleftharpoons \text{Sn}^{2+} (0.063 \text{ M}) + 2 \text{Cr}^{3+} (0.025 \text{ M}); E^{\circ}\text{Cell} = 0.56\text{V}$$

b) Explain the application of complexometric titration in the determination of hardness of water.
3. a) Explain +I and -I effect with an example each.
b) Explain the addition reaction of triplet carbene to alkenes.
4. a) Outline the mechanism for the sulphonation of benzene.
b) Benzoic acid is meta directing group. Justify this using resonating structure.

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St Aloysius (Deemed to be University), Mangaluru
B.Sc. - Semester I Degree Examination
November - 2024
Mathematics - I
Number Theory and Calculus - I

Time : 2 ½ Hours

Max. Marks : 60

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

SECTION - A**I. Define/Answer any TEN of the following:**

(2×10=20)

- Without performing the division determine whether 176521221 is divisible by 9 or 11.
- Find $gcd(82, 36)$.
- Define Greatest Common Divisor.
- Calculate $\phi(1000)$.
- Find the rational number represented by $[0; 2, 1]$.
- If p is a prime then prove that $a^p \equiv a \pmod{p}$, for any integer a .
- Prove that for any curve $\sin^2 \phi \frac{d\phi}{d\theta} + r \frac{d^2 r}{ds^2} = 0$.
- Find ϕ for the curve $r = a(1 + \cos \theta)$.
- Find the length of polar tangent and normal of $r = a(1 + \cos \theta)$, when $\theta = \tan^{-1}(\frac{3}{4})$.
- Determine $\lim_{x \rightarrow 0} \frac{\log(\tan x)}{\log x}$.
- Check whether all three conditions of Rolle's Theorem holds for $f(x) = \frac{\sin(x)}{e^x}$ in $[0, \pi]$.
- Find the Taylor's polynomial for $f(x) = \sin x$ at $a = \frac{\pi}{2}$ upto 3 terms.

SECTION- B**II. Answer any FOUR of the following:**

(5×4=20)

- State and Prove Division Algorithm.
- Define finite continued fraction and express $\frac{71}{55}$ as a finite simple continued fraction.
- Show that the pedal equation of the astroid $x = a \cos^3 \theta$, $y = a \sin^3 \theta$, is $r^2 = a^2 - 3p^2$.
- Determine $\lim_{x \rightarrow 0} (\frac{\tan x}{x})^{\frac{1}{x}}$.
- State and prove Wilson's Theorem.
- Trace the curve $y^2(a^2 + x^2) = x^2(a^2 - x^2)$, $a > 0$.

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SECTION - C**III. Answer any TWO of the following:**

(10×2=20)

- i) A Customer bought a dozen pieces of fruit, apples and oranges for 1.32. If an apple costs 3 cents more than an orange and more apples than oranges were purchased, calculate how many pieces of each kind were bought? (6)
 ii) Show that $\frac{a(a^2+2)}{3}$ is an integer for all $a \geq 1$. (4)
- i) Prove that the quadratic congruence $x^2 + 1 \equiv 0 \pmod{p}$, where p is an odd prime, has a solution if and only if $p \equiv 1 \pmod{4}$. (6)
 ii) If the integer $n > 1$ has the prime factorization $n = p_1^{k_1} p_2^{k_2} \dots p_r^{k_r}$, then prove that $\phi(n) = (p_1^{k_1} - p_1^{k_1-1})(p_2^{k_2} - p_2^{k_2-1}) \dots (p_r^{k_r} - p_r^{k_r-1})$. (4)
- Derive the expression to find radius of curvature in parametric form and hence prove that $\rho = 4a \cos(\frac{1}{2}t)$ for the cycloid $x = a(t + \sin t)$, $y = a(1 - \cos t)$.
- State and prove lagrange's theorem and hence verify the theorem for the function $f(x) = lx^2 + mn + n$ in $[a, b]$.

(2024 Batch Onwards)

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November - 2024

STATISTICS - I

DESCRIPTIVE STATISTICS

Time: 2 1/2 Hours.

Max Marks: 60

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

SECTION – A

I. Define/Answer any TEN of the following:

(10x2=20)

1. Write any two differences between Variable and Attribute.
2. Name any four parts of the table.
3. Explain Pie-diagram.
4. Explain Boxplot.
5. Explain briefly about trimmed mean and weighted mean.
6. Write any two properties of positive skewness.
7. What is Ginni's coefficient?
8. What is association of attributes?
9. What is multivariate frequency?
10. Explain contingency table.
11. Mention any two properties of regression line.
12. Briefly explain dispersion matrix.

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SECTION – B

II. Answer any FOUR of the following.

(4x5=20)

1. Explain Interval scale and ratio scale.
2. List and briefly explain the different types of sampling.
3. What is negative skewness? Write any four properties of negative skewness.
4. Show that if X' and Y' are the deviations of the random variables X and Y respectively from their respective means, then prove that
$$r = 1 - \frac{1}{2N} \sum \left(\frac{X_i'}{\sigma_x} - \frac{Y_i'}{\sigma_y} \right)^2$$
5. Prove that the correlation coefficient lies between -1 and +1.
6. Derive the formula of the standard error of the residual in a bivariate data.

SECTION – C

III. Answer any TWO of the following.

(2x10=20)

1. a) State any five differences between Quantitative data and Qualitative data.
b) State any five differences between Discrete data and Continuous data.
2. State all the properties of arithmetic mean and prove any two of them.
3. Derive the regression equation of X_1 on X_2 and X_3 .
4. Derive the formula of a rank correlation coefficient.

(2024 Batch onwards)

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St Aloysius (Deemed to be University)

Mangaluru

B.Sc. Semester I – Degree Examination

November - 2024

ELECTRONICS

ELECTRONIC DEVICES AND CIRCUITS

Time: 2 ½ hrs

Max Marks: 60

Instructions: Answer all the three sections-A, B and C.

Draw Diagrams wherever necessary

SECTION- A

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

- 1) Find the values of resistors with colour codes
(i) Gray,red,brown, silver and (ii) yellow,violet,yellow, gold .
- 2) Write a note on electrolytic capacitor.
- 3) A circuit containing resistors $R_1=10\Omega$, and $R_2=20\Omega$, connected in series with a DC source of 20V, calculate the (i) main current (ii) P.d across. each resistor.
- 4) Draw the structure of an n-channel JFET.
- 5) Write the preferred value sequence of resistors in 10% tolerance.
- 6) Minimize the following Boolean function using K-map.
 $F(A, B, C) = \Sigma m(0, 1, 6, 7) + \Sigma d(3, 4, 5)$
- 7) Write the circuit symbols of (i) LED (ii) Zener diode.
- 8) Draw the labelled diagram of characteristics of a Zener diode.
- 9) Explain the structure of an npn transistor.
- 10) Write the standard SOP of $Y(A,B,C)=A+ AC + \bar{A}$.
- 11) Write the dual theorems of (i) $A+1=1$ and (ii) $A + \bar{A} = 1$.
- 12) Write the rules of binary subtraction.

SECTION- B

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

- 1) Derive the expression for the h-parameters.
- 2) With necessary diagrams explain the action of a diode under forward bias.
- 3) Write a note on the different configurations of a transistor.
- 4) Simplify the following Boolean equation using K-map and draw the Logic circuit for the simplified equation using basic gates.

$$Y(A,B,C,D) = \Sigma m (1,2,3,4,8,9,10,11) + \Sigma \phi (7,12,15)$$

- 5) With an example explain the subtraction of two binary numbers in one's complement system.
- 6) Perform the following number conversions
(i) $(89)_{10} = (?)_2$
(ii) $(110110)_2 = (?)_{10}$
(iii) $(110110)_2 = (?)_8$
(iv) $(110110)_2 = (?)_{16}$

Contd...2

SECTION- C

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

1. a) State and Prove Maximum Power transfer theorem.
 - b) A series LCR circuit with $R = 100 \Omega$, $L = \frac{2}{\pi} \text{H}$ and $C = \frac{100}{\pi} \mu\text{F}$ is connected to a 200 Volt, 50Hz a.c supply. Calculate
 - (i) the impedance of the circuit.
 - (ii) the peak value of the current flowing in the circuit.
 - (iii) the power factor of this circuit.
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2. a) With necessary diagrams explain the formation of depletion region in an unbiased diode.
 - b) With necessary circuit diagram explain the working of a half wave rectifier. Draw its input and output waveforms.
3. a) Explain the action of a transistor under Forward-Reverse bias. Hence write the current equation of a transistor.
 - b) Define α_{dc} and β_{dc} of a transistor and obtain the relationship between α_{dc} and β_{dc} .
4. a) State the postulates of Boolean algebra.
 - b) State and prove De Morgan's theorems.

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(2024 - Batch onwards)

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Mangaluru

B.A./ B.Com./B.B.A./B.Sc./B.C.A. - Semester I – Degree Examination
November - 2024

ENGLISH

Max Marks: 60

Time: 2½ hrs.

UNIT - I (PROSE)

- I.A. Answer the following in a word/phrase/sentence each: (5x1=5)
1. What was the title bestowed by the British on one of the forebears of Dr Kalam's mother?
 2. The short essay 'The Hanging' is set in_____.
 3. What is the term used by Tocqueville to suggest the root of patriotism among American people?
 4. In the essay 'How Wealth Accumulates and Men Decay', G.B. Shaw argues against the claims of _____ that the new machinery and new modes of production have increased our wealth.
 5. Adversity always presents opportunities for _____.
- B. Answer any THREE of the following in about 150 -180 words each: (3x5=15)
1. What does Alexis de Tocqueville mean by instinctive patriotism? How is it different from rational patriotism?
 2. Elaborate the significance of the prisoner avoiding the puddle and its impact on the author.
 3. How did Ahmed Jallaluddin and Samsuddin influence young Kalam?
 4. Discuss how capitalism turns people into 'dangerous lunatics in the real world'?

UNIT - II (POETRY)

- II. Answer any TWO of the following in about 150-180 words each: (2x5=10)
1. Comment briefly on the treatment of time in the poem 'A Hot Noon in Malabar.'
 2. Explain how cosmic pattern is connected to the pattern of human life in the poem 'Night and Death.'
 3. What effect does the repetition of the words "Rage, rage against the dying of the light" have? How do they emphasise the notion of resisting death?
 4. How is the tiger portrayed as a mythical beast which is almost inexplicable in its beauty and glory?

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UNIT - III (SHORT STORY)

- III. Answer any TWO of the following in about 150-180 words each. (2x5=10)
1. Describe the life of the Bashkirs as portrayed in the short story 'How Much Land Does a Man Need.'
 2. Suggest the reasons for the change in the wedding dates in the short story 'Getting Married.' Does it have an impact on the relationship Ronald and Celia have?
 3. Why does Pahom buy more and more land in the short story 'How Much Land Does a Man Need?' What does this signify?
 4. Do you think Celia and Ronald will make an ideal couple? Justify.

Contd...2

UNIT - IV (GRAMMAR AND WRITING SKILLS)

IV.A. Fill in the blanks with appropriate idioms and phrases given in brackets. (5x1=5)

(call it a day, piece of cake, out of the blue, down and out, put oneself in someone else's shoes, leave no stone unturned, under the weather)

1. I believe it's absolutely imperative to _____ to make sure that those conflicts are resolved.
2. Raj is _____ these days as he has lost his job.
3. I am pretty sure that the police will _____ in their efforts to solve this case.
4. Ashraf appeared _____ at the function today, after three years of living in the woods.
5. This exam was a _____. I finished it in no time.

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B. Write a dialogue in about 150 words in five turns: (1x5=5)
Write a dialogue that takes place between the Teacher and the Principal discussing the issue of ragging.

C. Develop a story based on the hints given below in about 150 words: (1x5=5)

An old rich lady becomes blind — calls in a doctor — agrees to pay large fee if cured, but nothing if not — her eyes bandaged—doctor removes something every day - eyes cured — doctor asks for payment — lady refuses to pay — says cure not complete — doctor takes the matter to court—judge asks why she does not pay — she says sight not restored - she cannot see her furniture — judge decides the case in her favour - Moral.

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

Too many parents these days can't say no. As a result, they find themselves raising children who respond greedily to the advertisements aimed right at them. Even getting what they want doesn't satisfy some kids; they only want more. Now a growing number of psychologists, educators and parents think it's time to stop the madness and start teaching kids about what's really important: values like hard work, contentment, honesty and compassion. The struggle to set limits has never been tougher and the stakes have never been higher.

One recent study of adults who were overindulged as children paint a discouraging picture of their future: when given too much too soon, they grow up to be adults who have difficulty coping with life's disappointments. They also have a distorted sense of entitlement that gets in the way of success in the workplace and in a relationship. Psychologists say that parents who overindulge their kids set them up to be more vulnerable to future anxiety and depression.

The oldest members of this generation were born in the late 1980s, just as PCs and video games were making their assault on the family room. They think of MP3 players and flat-screen TV as essential utilities, and they have developed strategies to get them. One survey of teenagers found that when they crave for something new, most expect to ask nine times before their parents give in. By every measure, parents are shelling out record amounts. In the heat of this buying blitz, even parents who desperately need to say no find themselves reaching for their credit cards.

Today's parents aren't equipped to deal with this problem. Many of them were raised in the 1960s and 70's, and had sworn they would act differently from their parents and have closer relationships with their own children. Many even wear the same designer clothes as their kids and listen to the same music. But they have long and hectic work life. At the end of a long week, it's tempting to buy peace with 'yes' and not mar precious family time with conflict.

Anxiety about the future is another factor. How do loving parents say no to all the sports, arts and language lessons they believe will help their kids thrive in an increasingly competitive world? Experts agree: too much love won't spoil a child. Too few limits will. What parents need to find, is a balance between the advantages of an affluent society and the critical life lessons that come from waiting, saving and working hard to achieve goals. That search for balance has to start early.

Children need limits on their behaviour because they feel better and more secure when they live within a secured structure. Children learn self-control by watching how others, especially parents act. Learning how to overcome challenges is essential to becoming a successful adult. Few parents ask kids to do chores. They think their kids are already overburdened by social and academic pressures. Yet, every individual can be of service to others, and life has meaning beyond one's own immediate happiness. That means parents eager to teach values must take a long, hard look at their own.

1. What are the potential consequences, as mentioned in the passage, for adults who were overindulged as children, particularly in terms of their workplace success and mental health?

- a) They are more likely to achieve workplace success and have better mental health.
- b) They are likely to have difficulties coping with life's disappointments and distorted senses of entitlement.
- c) They tend to be more resilient in the face of challenges and have lower anxiety levels.
- d) They are less vulnerable to anxiety and depression but often struggle with entitlement issues.

2. Why do some parents find it challenging to say no to their children's desires, according to the passage?

- a) They are like to spoil their kids.
- b) Parents are following age old traditions of bringing up kids.
- c) They are not bothered about children's their well-being.
- d) They are anxious about the future and want their children to have every advantage.

3. What does the passage suggest is the importance of teaching values and setting limits for children in an affluent society?

- a) It is unnecessary because children naturally learn these values on their own.
- b) It is vital for helping children thrive in an increasingly competitive world.
- c) It is a luxury that only a few privileged children can afford.
- d) It is detrimental to children's exam grades.

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4. What is the main challenge mentioned in the passage regarding parenting in an affluent society?

- a) Balancing the advantages of affluence with teaching essential life lessons.
- b) Providing children with unlimited access to material possessions.
- c) Meeting the high expectations of children for constant gratification.
- d) Dealing with the financial demands of an affluent lifestyle.

5. According to the passage, why do children need limits on their behaviour?

- a) To make them feel more secure within a structured environment.
- b) To limit their social and academic expectations.
- c) To encourage them to lower their goals.
- d) To teach them to be self-conscious.

(2024 - Batch onwards)

LC7CUAE124/VS8AUAE124c

Reg. No.

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St Aloysius (Deemed to be University)

Mangaluru

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

November - 2024

ADDITIONAL ENGLISH

Time: 2½ hrs.

Max Marks: 60

UNIT - I (PROSE)

- I.A. Answer any TWO of the following in about 100-150 words each: (2x5=10)
1. Draw a parallel between Holmes' first and last encounter with Dr Roylott in "The Adventures of the Speckled Band".
 2. Explain the protagonist's initial reaction to her husband's condition and how it evolves throughout the story in "The Human Phonograph."
 3. How does Arthur Conan Doyle create an atmosphere of suspense and tension in the story "The Adventure of the Speckled Band"? Provide specific examples.
 4. How do the vilages feel about the British soliders and what event triggers thier desire revenge in "A Waterfall of Horses".
- B. Answer any ONE of the following in about 250-300 words: (1x10=10)
1. Evaluate the effectiveness of the Nong Kñia's approach to resolving the conflict between the villagers and the Bilati men. Do you believe it was an appropriate and ethical solution? Explain.
 2. What are the clues or key pieces of evidence that Holmes uses to deduce the solution to the mystery in "The Adventure of the Speckled Band".

UNIT - II (NOVEL)

- II. Answer any ONE of the following in about 250-300 words: (1x10=10)
1. Comment on the relationship between Bok and Kitdor in *The Girl from Nongrim Hills*.
 2. Describe the relationships between the different characters in the novel *The Girl from Nongrim Hills*.
 3. What cultural conflicts does Gogol experience in *The Namesake*.

UNIT - III (POETRY)

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

1. With a weight of sorrow and guilt oppress'd;
But oh! 'tis coldly cruel to wound
The bosom whose blood must gush unbound.
No tear is so bright as the tear that flows
For erring woman's unpitied woes;
And blest be for ever his honored name
Who shelters an orphan from sorrow and shame!
2. She stormed the palace, flung her other anklet
at the bloody throne. The Royals too saw the red.
The king died of shame, the queen died of shock.
On the edge, Ms. Militancy bayed for more blood.
Vending vengeance, she made a bomb
of her left breast and blew up the blasted city.

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Contd...2

3. if you're doing it for money or fame,
don't do it.
if you're doing it because you want women in your bed,
don't do it.
if you have to sit there and rewrite it again and again,
don't do it.
if it's hard work just thinking about doing it,
don't do it.
if you're trying to write like somebody else,
forget about it.

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

1. Analyze the role of gender in the poem "Ms Militancy".
2. 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?
3. How does the poem 'The Orphan Girl' explore the themes of loneliness and isolation?
4. What role memory, sense of loss and identity crisis play in "Postcard from Kashmir".

UNIT - IV (Grammar and Writing Skills)

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

1. When the council is struggling, the boss always _____ ST ALOYSIUS COLLEGE LIBRARY
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(call the shots, turn over a new leaf, catnap)
2. I gained a lot of _____ for helping the professor
(piece of cake, brownie points, donkeys years)
3. It's a lot of work but if everyone _____, we'll be done in no time. (pitches in/see eye to eye/pours their heart out)
4. The iPhone was _____. It really changed the world. (losing touch/left out in the cold/the best thing since sliced bread)
5. He always knows exactly what to do, so I tend to _____ him in difficult situations. (bank on / feel blue / pull up my socks)

B. Answer any ONE of the following: (1x5=5)

1. Write a report for the following scenario in about 150 words.
Your University organized a guest lecture on mental health awareness and you were the coordinator. Write a report for the University magazine summarizing the lecture's significance.

OR

2. Write a food blog for about 150 words describing a favourite cuisine from your city.

OR

3. Draft a commercial advertisement for any ONE of the following products. Highlight their special features.

a) Shampoo b) Mobile Phone c) Backpack

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ಸಂತ ಅಲೋಶಿಯಸ್ ಪರಿಗಣಿತ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಮಂಗಳೂರು
ಬಿಎಸ್ಸಿ- ಒಂದನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ
ನವೆಂಬರ್ - 2024
ಕನ್ನಡ ಭಾಷಾಪತ್ರಿಕೆ - I

ಸಮಯ : 2½ ಘಂಟೆ

ಗರಿಷ್ಠ ಅಂಕ : 60

(7x3=21)

I. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ

1. ವೃದ್ಧ ದಂಪತಿಗಳ ಔದಾರ್ಯತೆ 'ಬೆಟ್ಟದ ಜೀವ' ಕಾದಂಬರಿಯಲ್ಲಿ ಹೇಗೆ ಓದುಗರ ಗಮನ ಸೆಳೆಯುತ್ತದೆ? ವಿವರಿಸಿ
2. ಸ್ವಾಮಿನಾಥನ ಸೂಕ್ಷ್ಮ ಭಾವಗಳು, ತುಂಟ ಮನಸ್ಸಿತಿ, ಅಲೋಚನಾ ಲಹರಿ ಆರ್.ಕೆ.ನಾರಾಯಣ್ ಕತೆಯಲ್ಲಿ ವ್ಯಕ್ತವಾದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ
3. ಪಂಚತಂತ್ರ ಕೃತಿಯ ಪೂರ್ವ ಪೀಠಿಕೆಯನ್ನು ಪರಿಚಯಿಸಿ
4. ಭಾಷೆಗಳ ಬೆಳವಣಿಗೆಯಿಂದ ಮಾನವ ಬದುಕು ಹೇಗೆ ಸುಸಂಸ್ಕೃತವಾಯಿತು? ವಿವರಿಸಿ
5. ಡಾರ್ವಿನ್‌ನ ಅನುಸರಿಸುತ್ತಿದ್ದ ಸುವರ್ಣ ಸೂತ್ರಗಳು ಯಾವುವು? ವಿವರಿಸಿ
6. 'ಡಕೋಟಾದಲ್ಲಿ ಲಾರಾ' ಕಥೆಯಲ್ಲಿ ಅಪಾರವಾದ ಜೀವನಾನುಭವ ಚಿತ್ರಣ ಹೇಗೆ ನಿರೂಪಣೆಗೊಂಡಿದೆ? ವಿವರಿಸಿ

II. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ

(3x3=09)

7. ಮಳೆ ಬರುವ ಹಾಗಿದೆ ಕವಿತೆಯು ಕ್ರಾಂತಿ ಪೂರ್ವದ ಸಾಮಾಜಿಕ ಪರಿಸ್ಥಿತಿಯ ತುರ್ತನ್ನು ಹೇಗೆ ವರ್ಣಿಸಿದೆ?
8. ಶಿಶು ಸಾಹಿತ್ಯದಿಂದ ಲಾರಾ ಇಂಗಲ್ಸ್ ಪ್ರಸಿದ್ಧಿಗೆ ಬಂದ ಬಗೆಯೇನು?
9. 'ಆ ನಾಡ ಸಿರಿಯನೇನಂ ಪೊಗಳ್ವಂ' ಕಾವ್ಯಭಾಗದಲ್ಲಿ ಪಂಪನು ನಾಡಿನ ಸೊಬಗನ್ನು ಚಿತ್ರಿಸಿದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ
10. ಕಗ್ಗವು ನೆಲದ ಸಂಸ್ಕಾರ, ಸಂಸ್ಕೃತಿ ಅಸ್ಥಿತಿಯನ್ನು ಹೇಗೆ ಪ್ರತಿಬಿಂಬಿಸಿದೆ?
11. ನೇಮಿಚಂದ್ರರ ಬದುಕು ಮತ್ತು ಸಾಹಿತ್ಯ ಸೇವೆಯನ್ನು ಪರಿಚಯಿಸಿ
12. ಬದುಕಿನ ವಿಭಿನ್ನ ಮುಖದ ಸಂಗತಿಗಳು 'ತಾಮ್ರವರ್ಣದ ತಾಯಿ' ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ವರ್ಣನೆಗೊಂಡಿದೆ?

III. ಒಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಪದ್ಯದ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ

(4x1=04)

13. ಆವಲರಂ ಪಣ್ಣಂ ಬೀ
ತೋವವು ಗಡ ಬೀಯವಲ್ಲಿ ಮಲ್ಲಿಗೆಗಳುಮಿ
ಮ್ಯಾವುಗಳುಮಂದೊಡಿನ ಪೆರ
ತಾವುದು ಸಂಸಾರ ಸಾರ ಸರ್ವಸ್ವ ಫಲಂ
14. ಏನಿದು ಧಟ್ಟನೆ ಗೀತವು ಬಿಗಿದಿದೆ!
ದನಿಯುಡುಗಿಸಿ ನಿಂತಿದೆ ಜನತೆ!
ಏನೀ ಮೂಕತೆ, ಏನೀ ಮೌನತೆ,
ಏನೀ ಮಂದಿಯ ನೀರವತೆ!

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IV. ಎರಡು ಪದ್ಯ ಸಾಲುಗಳ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸಾಲಿನ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ

(2x2=04)

15. ಮಾನವನಿಕರಂ ಕೈಕೊಳ್ಳದೆಂದು ನುಡಿವರೆ ಮರುಳೇ
16. ಕಣ್ ಕಡು ಚೆಲ್ಲುವಡೆದಿರುತಿಹುದು
17. ಮಳೆ ಬೀಳಬೇಕು ಮುಚ್ಚಿದ ಮನಸುಗಳ ಮೇಲೆ
18. ಕಾರಣಮೆನಿಪ್ಪವೊಲು ತೋರ್ಪುದೊಂದು ಚಣ

V.ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

(3x2=06)

19. ಪಂಚತಂತ್ರದ ಕತೆ ಕೃತಿ ಪರಿಚಯ
20. ಯದುಗಿರಿಯ ಬೆಟ್ಟದ ನರಸಿಂಹನ ಎದುರಿನ ಶಬ್ದ ಪ್ರಪಂಚ
21. ನಂಜುಂಡ ಕವಿ
22. ಪಂಪ

Contd....2

ಆ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

(3x2=06)

23. ವಿವಿಧ ಭಾಷಾ ವೃಂದಗಳು ಅಥವಾ ಭಾಷಾ ಪರಿವಾರ
24. ಅಲ್ಪಾಂಜೂನ ಕಾಡು ಬೆಳೆಸುವ ಯೋಜನೆ
25. ಸ್ವಾಮಿನಾಥನ್
26. ಡಾರ್ವಿನ್‌ನ ಮಾಹಿತಿ ಸಂಗ್ರಹಗಳು

VI. ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ

(1x10=10)

27. ಬಿ.ಪಿ.ರಾಧಾಕೃಷ್ಣರ ಪೂರ್ಣ ಹೆಸರೇನು?
28. ಮಂಕುತಿಮ್ಮನ ಕಗ್ಗವನ್ನು ಬರೆದವರು ಯಾರು?
29. ಜಗದೇಕಮಲ್ಲನ ಆಸ್ಥಾನದಲ್ಲಿ ಸಂಧಿವಿಗ್ರಹಿ ಪದವಿಯನ್ನು ಪಡೆದಿದ್ದ ಕವಿಯ ಹೆಸರೇನು?
30. ಮಾಲ್ಕೂಡಿ ಎಂಬ ಪದ ಯಾವುದರಿಂದ ಹುಟ್ಟಿದೆ?
31. ಲಾರಾ ಮಗಳ ಹೆಸರೇನು?
32. 'ನಮ್ಮ ಕನಸುಗಳಲ್ಲಿ ನೀವಿದ್ದೀರಿ' ಕೃತಿಯನ್ನು ಬರೆದವರು ಯಾರು?
33. ಮಾಸ್ತಿಯವರ ಕೆಲವು 'ಸಣ್ಣ ಕಥೆಗಳು' ಯಾವಾಗ ಪ್ರಕಟಗೊಂಡಿತು?
34. ಶಿವರಾಮ ಕಾರಂತರಿಗೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪುರಸ್ಕಾರ ತಂದುಕೊಟ್ಟ ಕೃತಿ ಯಾವುದು?
35. ನನ್ನೊಳಗಿನ ನಿನ್ನ ಕಥೆಗಳು ಗ್ರಂಥವನ್ನು ಬರೆದವರು ಯಾರು?
36. ಟಾಗೂರ್ ಸೆಂಟರ್ ಎಂಬ ಸಾಂಸ್ಕೃತಿಕ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕರಾಗಿದ್ದ ಕನ್ನಡದ ಕವಿ ಯಾರು?

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**St Aloysius (Deemed to be University)
Mangaluru**

**B.A./B.Com./B.B.A/B.Sc/B.C.A - Semester I Degree Examination
November - 2024**

HINDI

Time : 2 ½ Hours

Max. Marks : 60

I. किन्हीं दो प्रश्नों के उत्तर लिखिए :

(2x5=10)

1. व्यंजन वर्ण की परिभाषा देते हुए उसके भेदों पर प्रकाश डालिए ।
2. विकार की दृष्टि से शब्द के भेदों को सोदाहरण समझाइए ।
3. शब्द की परिभाषा देते हुए विकास की दृष्टि से शब्द भेदों को सोदाहरण समझाइए ।
4. स्वर वर्ण की परिभाषा देकर उसके भेदों को सोदाहरण समझाइए ।

II.अ) निम्नलिखित शब्दों के तद्भव रूप लिखिए :

(5x1=5)

1. भ्राता
2. दीपक
3. उलूक
4. अष्ट
5. हस्त

आ) निम्नलिखित शब्दों के शुद्ध रूप लिखिए :

(5x1=5)

1. बदाम
2. इर्ष्या
3. अध्वन
4. अती
5. पुस्प

III. एक वाक्य में उत्तर लिखिए :

(10x1=10)

1. सूतपुत्र कौन था ?
2. लेखक अपने परिवार के साथ कहाँ ठहरे थे ?
3. 'यहाँ रोना मना है' एकांकी के रचनाकार कौन हैं ?
4. कालिंदी की माँ कालिंदी को हप्पो नाम से क्यों पुकारती थी ?
5. पृथ्वीराज की प्रियसी का नाम क्या है ?
6. हॉकी मैच का बहाना देकर अब्दुल गनी कहाँ आया था ?
7. कर्ण के जन्म रहस्य के बारे में कितने लोगों को पता था ?
8. गिल्लू के घाव पर लेखिका ने कौन सा मरहम लगाया ?
9. सुल्ताना की माँ कौन थी ?
10. किसान की पत्नी ने रात में लेखक की बेटी को खाने के लिए क्या दिया ?

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IV अ). किसी एक अवतरण का संदर्भ सहित व्याख्या कीजिए :

(1x5=5)

1. "उसका झूला उतारकर रख दिया गया है और खिड़की की जाली बंद कर दी गई है, परंतु गिलहरियों की नयी पीढ़ी जाली के उस पार चिक-चिक करती ही रहती है और सोनखुही पर बसंत आता ही रहता है ।"
2. "हाँ, बेटे, मेरी बदबख्ती थी कि पहले अकेला निकलकर चला गया । यहाँ रहता, तो उनके साथ मैं भी..."

आ). किसी एक अवतरण का संदर्भ सहित व्याख्या कीजिए :

(1x5=5)

1. "कल अपने घर जाकर जी भर रोइयो । खबरदार! जो यहाँ आंसू गिराए ।"
2. "हाँ । अश्वत्थामा के परामर्श से दुर्योधन तुम्हें सेनापति बना रहा है । अब तुम शस्त्र उठा सकते हो ।"

V. किसी एक प्रश्न का उत्तर लिखिए :

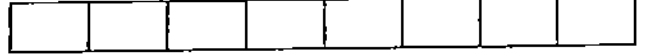
(10x1=10)

1. 'मलबे का मालिक' कहानी के माध्यम से लेखक क्या संदेश देना चाहते हैं ?
2. 'सच बोलने की भूल' कहानी का सारांश अपने शब्दों में लिखिए ।

VI. किसी एक प्रश्न का उत्तर लिखिए :

(10x1=10)

1. 'यहाँ रोना मना है' एकांकी में चित्रित नारी जीवन पर प्रकाश डालिए ।
2. 'आखेट' एकांकी के आधार पर कर्ण का चरित्र-चित्रण कीजिए ।



St Aloysius (Deemed to be University)
Mangaluru

B.Sc. - Semester I Degree Examination

November - 2024

SANSKRIT

Time: 2½ Hrs

Max Marks: 60

- 1 इलुकद्वयम् अनुवादं कृत्वा विवृणुत । (2 x 5 = 10)
- 1.1 हन्तुं देवकितनयां वसुदेवेनोद्यतायुधः कंसः ।
मधुरोक्तिभिरनुनीतः साम्ना मूर्खं वशं कुर्यात् ॥
- 1.2 व्याघ्रीव तिष्ठति जरा परितर्जयन्ती रोगाश्च शत्रव इव प्रहरन्ति देहम् ।
आयुः परिस्रवति भिन्नघटादिवाग्मः लोकस्तथाप्यहितमाचरतीति चित्रम् ॥
- 1.3 मनः प्रसादः सौम्यत्वं मौनमात्मविनिग्रहः ।
भावसंशुद्धिरित्येतत्तपो मानसमुच्यते ॥
- 1.4 एकातपत्रं जगतः प्रभुत्वं नवं वयः कान्तमिदं वपुश्च ।
अल्पस्य हेतोः बहु हातुमिच्छन् विचारमूढः प्रतिभासि मे त्वम् ॥
- 2 त्रीन् सन्दर्भसहितविवरणं लिखत । (3 x 4 = 12)
- 2.1 किं किं न साधयति कल्पलतेव विद्या ।
- 2.2 सात्विकी राजसी चैव तामसी चेति तां शृणु ।
- 2.3 सर्वे गुणाः काञ्चनमाश्रयन्ति ।
- 2.4 प्रष्टव्याः सत्यं वृद्धाः ।
- 2.5 विसृज्यतां धेनुरियं महर्षेः ।
- 3 त्रीन् प्रबन्धरूपेण उत्तरयत । (3 x 5 = 15)
- 3.1 नन्दीनी धेनुः दिलीपं कथं परीक्ष्यते ? यथापाठं विवृणुत ।
- 3.2 वाचां महत्त्वं विदुरनीतिः पाठे कथं वर्णितम् ?
- 3.3 'सूक्तिमुक्तावलिः' पाठे प्रतिपादितानि जीवनमौल्यानि कानि ? विवृणुत ।
- 3.4 नीतिशतकम् – पाठे उक्तानां नीतीनां विषये प्रबन्धं रचयत ।
- 3.5 श्रद्धात्रयविभागयोगे उक्ताः तपः प्रभेदान् अधिकृत्य प्रबन्धं लिखत ।
- 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 कालिदासः ।

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Contd...2

व्याकरणम् ।

- 6 रिक्तस्थानानि पूरयत । (5 x 1=5)
- 6.1 प्रकृतिसिद्धमिदं हि _____ । (महात्मनाम्, महान्, महत्वम्)
- 6.2 साम्ना _____ वशे कुर्यात् । (मूर्खम्, ज्ञानिम्, बालान्)
- 6.3 _____ गुणाः काञ्चनमाश्रयन्ति । (सर्वाः, सर्वः, सर्वे)
- 6.4 वाञ्छयं _____ उच्यते । (तप, तपाः, तपौ)
- 6.5 आहारस्त्वपि _____ त्रिविधो भवति प्रियः । (एकस्य, बहवः, सर्वस्य)

संयोजयत ।

(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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(2024 Batch onwards)

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St Aloysius (Deemed to be University)
Mangaluru

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

NOVEMBER -2024

KONKANI

Time: 2 ½ Hours

Max. Marks: 60

UNIT - I

I ಖಂಚಾಯ್ ಎಕಾ ಕವನಾಚೊ ಸಾರಾಂತ್ ಬರಯಾ.

(1×5=5)

Khanchai eka kavanacho saransh boroya

खन्चय एक कवनचो सरन्श बोरोय

1) मस्ळों सय्त जियेतत मोगन
सनात सनात भर्सुन
महनिस लस्ल कित्यक मोसन
ऐकमेकचे पंय वोडून

Maslyo sait jiyetat
mogan
Sangata sangata
bharsun
Mhanis lasla kityak
mosran
Yekamekache pay
vodun?

ಮಾಸ್ಲೊ ಸಯ್ತ್ ಜಿಯೆತಾತ್ ಮೊಗಾನ್
ಸಾಂಗಾತಾ ಸಾಂಗಾತಾ ಭರ್ಸುನ್
ಮ್ಹನಿಸ್ ಲಾಸ್ಲ ಕಿತ್ಯಾಕ್ ಮೊಸ್ತನ್
ಎಕಾಮೆಕಾಚೆ ಪಾಯ್ ವೊಡುನ್

2) रत सुस्त निदलेलि
ति मत
अर्ध ज़ोमेर
घर कुशिके
खोपिन्त गेलि

Rat sust' nid'li
Ti matr
Ardya jemer
Ghar khuxiche
Khopint geli.

ರಾತ್ ಸುಸ್ತ್ ನಿದ್ಲೆಲಿ
ತಿಂ ಮಾತ್
ಅರ್ಧಾ ಜೆಮೆರ್
ಘರ್ ಖುಶಿಚೆಂ

ಪೊಪಿಂತ್ ಗೆಲಿ ST ALOYSIUS COLLEGE LIBRARY
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II ಎಕಾ ವಾಕ್ಯನ್ ಜಾಪ್ ಬರಯಾ. Eka vakyan zap boroya

एक वक्यन ज़प बोरोय

(5×1=5)

1) Madim ulaitat kavanachi kavi konn?

ಮಡಿಂ ಉಲೈತಾತ್ ಕವನಾಚಿ ಕವಿ ಕೋಣ್?

मडि उलैतत कवनचि कवि कौण?

2) Cijes taccode navan borovnocho kavi konn?

ಸಿಜೆಸ್ ತಾಕೋಡೆ ನಾಂವಾನ್ ಬೊರೊಂವ್ಚೊ ಕವಿ ಕೋಣ್?

सिजेस तकोडे नवन बोरोन्चो कवि कौण?

3) Amai nayakan boroil'lya kaviteche nanv kitem

ಅಮೈ ನಾಯಕನ್ ಬೊರೊಯಿಲ್ಲಾ ಕವಿತೆಚೆ ನಾಂವ್ ಕಿತೆಂ?

अमै नयकन बोरोइल्ल कवितेचे नव कितें?

4) Kavi mhunxachya jivitak khanchak sari karta

ಕವಿ ಮನ್ಶಾಚ್ಯಾ ಜಿವಿತಾಕ್ ಖಂಚಾಕ್ ಸರಿ ಕರ್ತಾ?

कवि मुन्शच्य जिवितक खन्क सरि कर्त?

5) Kavi khancha pasa vixi ulaita

ಕವಿ ಖಂಚಾ ಪಾಸ ವಿಶಿ ಉಲೈತಾ?

कवि खन्च पास विशि उलैत?

Contd...2

III ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.

(1×5=5)

Khanchai eka savalak zap boroya.

खन्चय एक सवलक ज़प बोरोय

1) ಅವೈ ಆನಿಂ ಭುರ್ಗ್ಯಾ ಮುಡ್ಲೊ ಗಾಂಚ್ ಕವನಾಂತ್ ಕಸೊ ವ್ಯಕ್ತ್ ಜಾಲಾ ವಿವರ್ಸಿಯ

Avai anim bhurgya modlo ganch kavanant kaso vykt zala vivarsia

अवै अनि भुर्ग्य मोदलो गन्च कवनंत कसो व्यक्त ज़ल विवर्सिय

2) ಕಾಲೇಜಿಕ್ ವೆಚ್ಯಾ ಪುತಾಚೊ ಜಿನೊಸ್ ಕಿತೆಂ?

Collegik vecha putacho jinos kitem

कलेजिक वेच्य पूतचो जिनोस कितें?

UNIT - II

I ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ: savalank zap boroya ಸವಲನ್ಕ ಜ಼ಪ ಬೋರಿಯ

(5×1=5)

1. ಮೊಗಾಚಿ ಸುನಾಮಿ ಕೊಣಾ ಕೊಣಾಂ ಥಂಯ್ ವಾಳ್ತಾ?

Mogachi sunami konna konnam thay vallta?

मोगचि सुनमि कोण कोण थंय वळत?

2. ಬುಡ್ಕುಲೊ.ಕಾಂ ಪತ್ರ್ ಕೋಣ್ ಚಲಯ್ತಾ?

Budkulo.com patr konn chalayta?

बुडकुलो .कॉम पत्र कोण चलत?

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3. 'ಅಪ್ಲೆಂ' ಕಾಣಿಯೆಚೊ ಬರಯ್ಲಾರ್ ಕೋಣ್?

'aplem' kanniyecho borqynnar konn?

‘अप्लें कणियेचो बोरोयार कोण?

4. ಡಾ. ಎಡ್ವರ್ಡ್ ನಜ್ರೆತಾನ್ ಬೊರೊಯಿಲ್ಲಿ ಕಾಣಿ ಕಳಯಾ.

Dr. Edward Nazaretan boroi'li kanni kallaya.

ड. एड्वर्ड नज़रेतन बोरोयिल्लि कणि कलय

5. ಖಿತಾಂ ಕಿತೆಂ ಜಾವ್ನಾಸಾತ್?

Khatam kitem zavnasat?

खंत कितें जलसत?

II. ಖಿಂಚಾಯ್ ಎಕಾ ಪಾತ್ರಾಚಿ ಪರಿಚಯ್ ದಿಯಾ khanchay eka patrachhi parichay diya

खन्चय एक पत्राचि परिचय दिय

(5)

1. Drupad maushi द्रुपद मौशि द्रुपद ಮೌಶಿ

2. Fhond ಫೊಂಡ ಫೊಂಡ್

Contd...3

III. ಖಿಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ. ಖನ್ಯಪ್ ಏಕ ಸವಲಕ್ ಜಪ ಬೋರಿಯ (1×5=5)

1. ಮೊಗಾಚಿ ಸುನಾಮಿ ವಿನುತ ಆನಿಂ ರಾಜೇಶಚ್ಯಾ ಜಿವಿತಾಂತ್ ಕಶಿಂ ಯೆತಾ?
Mogachi sunami vinuta ani Rajeshacha jivitant kaxim yeta ?
ಮೊಗಾಚಿ ಸುನಾಮಿ ವಿನುತ ಆನಿ ರಾಜೇಶಚ ಜಿವಿತಂತ ಕಶಿ ಯೆತ?
2. 'ಅಪ್ಲೆಂ, ಕೆನ್ನಾಯ್ ಅಪ್ಲೆಂಚ್' ಹಿಂ ಸಾಂಗ್ಣಿ ಕಾಣಿಯೆಂತ್ ಕಶಿಂ ಸಿದ್ಧ್ ಜಾಲ್ಯಾ? ವಿವರ್ಸಿಯಾ
'aplem, ken'nay aplench' him sangni kanniyent kaxim sid'd zalya? vivarsia
'ಅಪ್ಲೆಂ ಕೆನ್ನಾಯ್ ಅಪ್ಲೆಂಚ್' ಹಿ ಸಾಂಗ್ಣಿ ಕಾಣಿಯೆಂತ ಕಶಿ ಸಿದ್ಧ್ ಜಾಲಯ್ ವಿವರ್ಸಿಯಾ

UNIT - III

I ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ. eka vakyan zap boroya ಏಕ ವಕ್ಯನ ಜಪ ಬೋರಿಯ (5×1=5)

1. 'ಮಾಲ್ದಿಸಾಂವ್' ನಾಟಕಾಚೊ ಬರಯ್ಣಾರ್ ಕೋಣ್?
'maldisanv' natakacho boroinnar konn?
'ಮಲ್ದಿಸಾಂವ್' ನಟಕಾಚೊ ಬರಯ್ಣಾರ್ ಕೋಣ್?
2. ಫ್ರಾನ್ಸಿಸ್ ಫೆರ್ನಾಂಡಿಸಾನ್ ಕಿತ್ಲೆಂ ನಾಟಕ್ ಬರಯ್ಣಾತ್?
Francis Fernandesan kitl'em natak boroil't
ಫ್ರಾನ್ಸಿಸ್ ಫೆರ್ನಾಂಡಿಸಾನ್ ಕಿತ್ಲೆಂ ನಾಟಕ್ ಬರಯ್ಣಾತ್?
3. ಫ್ರಾನ್ಸಿಸ್ ಫೆರ್ನಾಂಡಿಸಾಚೆ ಬಿರುದ್ ಕಿತ್ಲೆಂ?
Francis Fernandesache birud kitem?
ಫ್ರಾನ್ಸಿಸ್ ಫೆರ್ನಾಂಡಿಸಾಚೆ ಬಿರುದ್ ಕಿತ್ಲೆಂ?
4. ಮಾಲ್ದಿಸಾಂವ್ ಕೋಣ್ ಮಾಗೊನ್ ಘೆತಾ?
Maldisanv konn magon ghet?
ಮಲ್ದಿಸಾಂವ್ ಕೋಣ್ ಮಾಗೊನ್ ಘೆತಾ?
5. ಫ್ರಾನ್ಸಿಸ್ ಡೆ'ಸಾಕ್ ಕಸಲಿ ಪಿಡಾ ಲಾಗ್ತಾ?
Francis D'sak kasali pida lagta?
ಫ್ರಾನ್ಸಿಸ್ ಡೆ'ಸಾಕ್ ಕಸಲಿ ಪಿಡಾ ಲಾಗ್ತಾ?

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II ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ. ಖನ್ಯಪ್ ಏಕ ಸವಲಕ್ ಜಪ ಬೋರಿಯ (2×5=10)

1. ಮಾಲ್ದಿಸಾಂವ್ ನಾಟಕಾಚೊ ಪ್ರಮುಖ್ ಸಂದೇಶ್ ಕಿತ್ಲೆಂ?
Maldisanv natakacho pramukh sandesh kitem?
ಮಲ್ದಿಸಾಂವ್ ನಟಕಾಚೊ ಪ್ರಮುಖ್ ಸಂದೇಶ್ ಕಿತ್ಲೆಂ?
2. ಫ್ರಾನ್ಸಿಸ್ ಡೆ'ಸಾಚೆ ವ್ಯಕ್ತಿತ್ವ್ ಕಳಯಾ
Francis D'sache vyaktit'v kallaya
ಫ್ರಾನ್ಸಿಸ್ ಡೆ'ಸಾಚೆ ವ್ಯಕ್ತಿತ್ವ್ ಕಳಯಾ

UNIT - IV

I ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ. Yeka vakyan zap boroy एक वक्यन ज़प बोरोय (5×1=5)

1. ಕೊಂಕ್ಣೆಂತ್ ಕಿತ್ಲಿಂ ಲಿಂಗ್ ಆಸಾತ್?

Konknent kitlim ling asat?

· ಕೊಂಕ್ಣೆಂತ್ ಕಿತ್ಲಿಂ ಲಿಂಗ್ ಆಸಾತ್?

2. ನಾಮಪದ್ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ?

Nampad mullyar kitem?

ನಮಪದ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ?

3. ಧಾತು ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ?

Dhatu mullyar kitem?

ಧತು ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ?

4. ಕೊಂಕ್ಣೆಂತ್ ಕಿತ್ಲೆಂ ಕಾಳ್ ಆಸಾತ್?

Konknent kit'lem kall asat?

ಕೊಂಕ್ಣೆಂತ್ ಕಿತ್ಲೆಂ ಕಾಳ್ ಆಸಾತ್?

5. ಏಕ್‌ವಚನ್ - ಬಹುವಚನಾಕ್ ಏಕ್ ಉದಾಹರಣ್ ದಿಯಾ

ekvachan - bahuvachanak ek udaharann diya.

ಏಕ್‌ವಚನ - ಬಹುವಚನಕ ಏಕ್ ಉದಾಹರಣ್ ದಿಯಾ?

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II ಸವಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ. savalank zapi boroya सावलन्क जापि बोरोया (2×5=10)

1. ಕೊಂಕ್ಣೆಚಿ ವರ್ಣಮಾಲ ಬರಯಾ

ಕೊಂಕ್ಣೆಚಿ ವರ್ಣಮಾಲ ಬರಯಾ

Konknlchi varnmala boroya

2. ನಾಮಪದ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ? ತಾಚೆಂ ವರ್ಗೀಕರಣ್ ಉದಾಹರಣಾಂ ಸಂಗಿಂ ವಿವರಿಸಿಯಾ.

Nampad mhullyar kitem? Tache vargikarann udaharannam sangim vivarsiya.

ನಮಪದ ಮ್ಹಳ್ಳಾರ್ ಕಿತೆಂ? ತಾಚೆ ವರ್ಗೀಕರಣ ಉದಾಹರಣ್ ಸಂಗಿಂ ವಿವರಿಸಿಯಾ

(2024 batch onwards)

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**St Aloysius (Deemed to be University)
Mangaluru**

**B.A./B.Sc./B.Com./B.B.A./B.C.A Semester I – Degree Examination
November - 2024**

MALAYALAM

Time: 2½ hrs.

Max Marks:60

- I. താഴെ തന്നിരിക്കുന്ന എല്ലാ ചോദ്യങ്ങൾക്കും ഒന്നോ രണ്ടോ വാക്യത്തിൽ ഉത്തരമെഴുതുക. (5x2=10)**
1. കൃഷ്ണഗാഥ രചിക്കപ്പെട്ടതിന് പിന്നിലെ ഐതിഹ്യകഥയെന്ത്?
 2. ഹനുമത് സീത നൽകുന്ന അടയാളമെന്ത്?
 3. നീ എന്ന സർവനാമത്തിന് മലയാളത്തിലുള്ള പ്രയോഗഭേദങ്ങൾ എന്തെല്ലാം?
 4. അദ്ധ്യാത്മരായണത്തിലെ എത് കാണാത്തിലാണ് ഹനുമൽ സീത സംവാദം ഉൾപ്പെട്ടിരിക്കുന്നത്?
 5. കുറിയെഴുതുക: ടി പത്മനാഭൻ

- II. താഴെ തന്നിരിക്കുന്ന അഞ്ച് ചോദ്യങ്ങളിൽ നാലെണ്ണത്തിന് സന്ദർഭവും സാരസ്യവും വ്യക്തമാക്കുക. (4x4=16)**
6. വിപിനഭൂവി വിരവൊടു തിരഞ്ഞുനടക്കുമ്പോൾ
വിണകിടക്കും ജടായുവിനെക്കണ്ടു.
 7. വേഗത്തിൽ പോകുന്ന കാളിന്ദിതാനങ്ങു രാഗതൈരകേട്ടൊരു നേരത്തപ്പോൾ
ഏറിന വിചിക്ഷാലമകന്നടനേതുമനങ്ങാതെ നിന്നുപോയി.
 8. ത്വരിതമിഹ ദശമുഖനെ നിഗ്രഹിച്ചെന്നുടൈ
ദുഃഖം കളഞ്ഞു രക്ഷിക്കെന്നു ചൊല്ലു നീ.
 9. "കവിതയും സംഗീതവുമൊന്നും എന്റെ വിഷയങ്ങളായിത്തന്നില്ലല്ലോ"
 10. "നാളെ അവരൊക്കെ വീട്ടിൽ പോകുന്നു..അവരുടെ കൂർക്കംവലി..ഭാഗ്യവാന്മാർ"

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- III. താഴെ തന്നിരിക്കുന്ന അഞ്ച് ചോദ്യങ്ങളിൽ മൂന്നെണ്ണത്തിന് ഒന്നരപ്പറത്തിൽ കവിയാതെ എഴുതുക. (3x8=24)**
11. നാടകീയമായ സന്ദർഭങ്ങളാൽ സമ്പന്നമാണ് ഹനുമൽ സീതാസംവാദം. പരിശോധിക്കുക.
 12. തരികാലും കടൽ കാണാൻ കഴിയാതെപോയ അമ്മയാണ് ടി. പത്മനാഭന്റെ കടൽ എന്ന കഥയെ ശോകാർദ്രമാക്കുന്നത്. വിലയിരുത്തുക.
 13. കൊച്ചുകൃഷ്ണന്റെ ഉള്ളിലെ അടങ്ങാത്ത വിശപ്പാണ് കഥയെ മുന്നോട്ടുനയിക്കുന്നത്. പരിശോധിക്കുക.
 14. കൃഷ്ണന്റെ വേണുഗാനം കേൾക്കുമ്പോൾ പ്രകൃതിയിലും ജീവജാലങ്ങളിലുമുണ്ടായ മാറ്റങ്ങളെ ചെറുശ്ശേരി അവതരിപ്പിച്ചിരിക്കുന്നതെങ്ങനെ?
 15. ദൂതനെന്ന നിലയിൽ തന്റെ ജോലി ഹനുമൻ മനോഹരമായി നിർവഹിക്കുന്നുണ്ട്. വിലയിരുത്തുക.

Contd...2

- IV. താഴെ തന്നിരിക്കുന്ന എല്ലാ ചോദ്യങ്ങൾക്കും ഒന്നോ രണ്ടോ വാക്യത്തിൽ ഉത്തരമെഴുതുക. (10x1=10)
- 16. സർവനാമം എന്നാലെന്ത്? ഉദാഹരണമെഴുതുക.
- 17. ക്രിയ എന്നാലെന്ത്? ഉദാഹരണമെഴുതുക.
- 18. വാക്കിലെ തെറ്റ് തിരുത്തുക: ഉത്സവഗോഷം
- 19. വാക്കിലെ തെറ്റ് തിരുത്തുക: അനവദി
- 20. വാക്യത്തിലെ തെറ്റ് തിരുത്തുക: വിദ്യർത്ഥികളോട് ശാന്തരായിരിക്കുവാൻ അധ്യാപകൻ വിണ്ടും പലതവണ പറഞ്ഞു.
- 21. വാക്യത്തിലെ തെറ്റ് തിരുത്തുക: അയാൾ സ്വയം ആത്മവിമർശനം നടത്തി.
- 22. വാക്യത്തിലെ തെറ്റ് തിരുത്തുക: മുറിയിലേക്ക് കടന്നപ്പോൾ അയാൾക്ക് പേടിയും ഭയവും ഉണ്ടായി.
- 23. വാക്യത്തിൽ പ്രയോഗിക്കുക: നിറവേറ്റി
- 24. വാക്യത്തിൽ പ്രയോഗിക്കുക: കഷ്ടിച്ച്
- 25. വാക്യത്തിൽ പ്രയോഗിക്കുക: ഒറ്റയാൻ

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St Aloysius (Deemed to be University)

Mangaluru

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

November - 2024

FRENCH

Time : 2 ½ Hours

Max. Marks : 60

(5x1=5)

I. Employez le pronom En ou y

1. Est-ce que vous préférez aller à la plage ?
2. Vous allez chez vos parents?
3. Tu as acheté des légumes?
4. Tu vas passer une semaine au Japon?
5. Vous allez acheter du marché?

II. Répondez en utilisant les subjunctif

(5x1=5)

1. Il est important que j'aille à la gare. (aller)
2. Je veux que nous.....(partir) en vacances.
3. Il ne faut pas que vous (parler)..... pendant le cours
4. Je serai ravi que tu (réussir)son concours
5. Il faut que tu vous (être) à l'heure chez le médecin.

III. Comparez

(5x1=5)

1. La pyramide et la tour Eiffel (+ancienne)
2. Valérie et Denis chantent. (bien -)
3. L'Océan Atlantique et L'Océan Pacifique (grand +)
4. La cuisine française et la cuisine de mon pays (bon +)
5. Sylvie court (-vite) Ronald

IV. Mettez les phrases au futur simple.

(5x1=5)

1. Le week-end prochain vous(courir) un marathon.
2. Quand est-ce que tu(être) à Paris?
3. À la bibliothèque, je (pouvoir) emprunter un livre.
4. En 2023, nous----- (travailler) deux jours par semaine
5. En 2025, les hommes----- (habiter) sur Mars.

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V. Répondez aux questions

(4x5=20)

1. Expliquez l'économie et le travail en France
2. Ecrivez une lettre de demande d'emploi.
3. Expliquez le système politique et de la France.
4. Expliquez L'enseignement en France.

VI Dialogue

(1x10=10)

a. Vous entrez dans un magasin pour acheter un vêtement. La vendeuse vous accueille. Vous achetez . Vous choisissez. Vous essayez le vêtement, etc...

Ou

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

Contd...2

VII. COMPREHENSION

(5x2=10)

Je m'appelle Peter. Aujourd'hui, je vais vous parler de mes hobbies. En fait, il y a beaucoup de choses que j'aime faire dans la vie. Comme beaucoup de personnes, je passe beaucoup de temps à regarder des séries. En ce moment, je regarde un épisode par jour de « Dix Pour Cent ». C'est une série française que je trouve vraiment drôle. Sinon, je suis passionné par l'astronomie depuis que je suis tout petit. Je n'ai jamais fait d'études d'astronomie, mais je suis un vrai geek. J'apprends tout en autodidacte. Je regarde souvent des documentaires scientifiques sur l'espace et l'univers. J'aime aussi écouter de la musique. La musique que j'écoute le plus souvent est le blues. Mais j'aime bien tous les types de musiques, sauf le reggae.

Enfin, ce n'est pas que je n'aime pas le Reggae. C'est juste que je n'arrive pas à écouter du reggae plus de 30 minutes. Sinon, j'écoute du jazz manouche, du rock, du hard rock et de la musique classique. J'aime aussi tout particulièrement la musique des années 60. Je ne joue pas d'instrument de musique, je me contente de l'écouter. Mais plus tard, j'aimerais bien jouer de la basse. Récemment, je me suis découvert une passion pour les bandes dessinées. J'ai toute une collection. Je suis en ce moment en train de lire « Black Sad », une bande dessinée espagnole. Je ne trouve pas les histoires très intéressantes, mais les dessins sont incroyables. J'aimerais bien savoir aussi bien dessiner. Je crois que c'est à peu près tout. Et vous, quelles sont vos passions ?

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A) Répondez aux questions:

1. Qu'est-ce qui passionne Peter depuis qu'il est tout petit ?
2. Quelle musique écoute le plus souvent Peter ?
3. Est-ce que Peter joue un instrument de musique ?
4. De quoi Peter est passionné récemment ?
5. Pourquoi Peter aime Black Sad ?

(2024 batch onwards)

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**St Aloysius (Deemed to be University)
Mangaluru**

**B.A./B.Sc./B.C.A. - Semester I - Degree Examination
November - 2024**

ENVIRONMENTAL STUDIES AND VALUE EDUCATION

Time: 2½ Hours

Max. Marks: 60

PART - A

ENVIRONMENTAL STUDIES

I. Answer any TEN of the following Questions:

(10x2=20)

ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಹತ್ತನ್ನು ಉತ್ತರಿಸಿ.

1. What is sustainable development?
ಸುಸ್ಥಿರ ಅಭಿವೃದ್ಧಿ ಎಂದರೇನು?
2. What is ecosystem? Who coined the word ecosystem?
ಪರಿಸರ ವ್ಯವಸ್ಥೆ ಎಂದರೇನು? ಪರಿಸರ ವ್ಯವಸ್ಥೆ ಎಂಬ ಪದವನ್ನು ಸೃಷ್ಟಿಸಿದವರು ಯಾರು?
3. List any four conservatory measures of forest resources.
ಅರಣ್ಯ ಸಂಪನ್ಮೂಲಗಳ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಸಂರಕ್ಷಣೆಯ ಕ್ರಮಗಳನ್ನು ಪಟ್ಟಿ ಮಾಡಿ.
4. What is soil erosion? Mention any two methods of soil conservation.
ಮಣ್ಣಿನ ಸವೆತ ಎಂದರೇನು? ಮಣ್ಣಿನ ಸಂರಕ್ಷಣೆಯ ಯಾವುದಾದರೂ ಎರಡು ವಿಧಾನಗಳನ್ನು ತಿಳಿಸಿ.
5. What is ex-situ conservation? Give example.
ಹೊರ ಪ್ರದೇಶ ಸಂರಕ್ಷಣೆ ಎಂದರೇನು? ಉದಾಹರಣೆ ಕೊಡಿ.
6. Abbreviate IUCN with one significance.
IUCN ಅನ್ನು ಒಂದು ಪ್ರಾಮುಖ್ಯತೆಯೊಂದಿಗೆ ಸಂಕ್ಷೇಪಿಸಿ.
7. What are endangered species?
ಅಳಿವಿನಂಚಿನಲ್ಲಿರುವ ಜಾತಿಗಳು ಎಂದರೇನು?
8. What is biodiversity hotspot?
ಜೀವವೈವಿಧ್ಯ ಬಿಸಿತಾಣ ಎಂದರೇನು?
9. What is acid rain?
ಆಮ್ಲ ಮಳೆ ಎಂದರೇನು?
10. What is a Kyoto protocol?
ಕ್ಯೂಟೋ ಪ್ರೋಟೋಕಾಲ್ ಎಂದರೇನು?
11. What are cyclones?
ಚಂಡಮಾರುತಗಳು ಎಂದರೇನು?
12. Write any two names of environmental movements in India.
ಭಾರತದಲ್ಲಿನ ಪರಿಸರ ಚಳುವಳಿಗಳ ಯಾವುದಾದರೂ ಎರಡು ಹೆಸರುಗಳನ್ನು ಬರೆಯಿರಿ.

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II. Answer any THREE of the following questions.

(3x5=15)

ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಮೂರಕ್ಕೆ ಉತ್ತರಿಸಿ.

13. Explain the components of pond ecosystem with suitable examples.
ಸೂಕ್ತ ಉದಾಹರಣೆಗಳೊಂದಿಗೆ ಕೊಳದ ಪರಿಸರ ವ್ಯವಸ್ಥೆಯ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ.
14. Explain in brief the different threats faced by biodiversity.
ಜೀವವೈವಿಧ್ಯವು ಎದುರಿಸುತ್ತಿರುವ ವಿವಿಧ ಬೆದರಿಕೆಗಳನ್ನು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಿಸಿ.
15. Add a brief note on The Environment Protection Act, 1986.
ಪರಿಸರ ಸಂರಕ್ಷಣಾ ಕಾಯಿದೆ, 1986 ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತ ಟಿಪ್ಪಣಿ ಸೇರಿಸಿ.
16. What is global warming? How it is caused?
ಜಾಗತಿಕ ತಾಪಮಾನ ಏರಿಕೆ ಎಂದರೇನು? ಅದು ಹೇಗೆ ಉಂಟಾಗುತ್ತದೆ?

Contd...2

III. Answer any ONE of the following questions. (1x10=10)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ.

17. What is solid waste management? What are the control measures of urban solid wastes?
ಘನ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣೆ ಎಂದರೇನು? ನಗರ ಘನ ತ್ಯಾಜ್ಯಗಳ ನಿಯಂತ್ರಣ ಕ್ರಮಗಳಾವುವು?
18. What are the values of biodiversity?
ಜೀವವೈವಿಧ್ಯದ ಮೌಲ್ಯಗಳು ಯಾವುವು?
19. Write a brief essay on water pollution, mentioning its causes, effects and control measures.
ಜಲ ಮಾಲಿನ್ಯದ, ಕಾರಣಗಳು, ಪರಿಣಾಮಗಳು ಮತ್ತು ನಿಯಂತ್ರಣ ವಿಧಾನಗಳ ಮೇಲೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

PART – B**VALUE EDUCATION (I Semester)****IV. Answer any ONE of the following in not less than a page. (5x1=5)**

20. Explain five elements of the Integral Pedagogical Paradigm (IPP).

ಸಮಗ್ರ ಶಿಕ್ಷಣ ಮಾದರಿಯ ಐದು ಅಂಶಗಳನ್ನು ವಿವರಿಸಿರಿ.

21. Write down the need for the right self-esteem.

ಸರಿಯಾದ ಸ್ವಾಭಿಮಾನದ ಅಗತ್ಯವನ್ನು ಬರೆಯಿರಿ.

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V. Answer any ONE of the following in not less than two pages. (10x1=10)

22. Explain the techniques to enhance critical thinking skills.

ವಿಮರ್ಶಾತ್ಮಕ ಚಿಂತನೆಯ ಶೈಲಿಯನ್ನು ಹೆಚ್ಚಿಸಲು ಇರುವ ತಂತ್ರಗಳನ್ನು ವಿವರಿಸಿರಿ.

23. Explain the support system available at the college to reach out to society.

ಸಮಾಜವನ್ನು ತಲುಪಲು ಕಾಲೇಜಿನಲ್ಲಿ ಲಭ್ಯವಿರುವ ಬೆಂಬಲ ವ್ಯವಸ್ಥೆಯನ್ನು ವಿವರಿಸಿರಿ.
