

(2021 Batch Onwards)

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St Aloysius College (Autonomous), Mangaluru

B.Sc. Semester IV - Degree Examination

May - 2024

PHYSICS

THERMAL PHYSICS AND ELECTRONICS

Time: 2½ hrs.

Max Marks: 60

SECTION-A

Answer any **FOUR** of the following.

(4x2=8)

1. a) What is a thermodynamic process? Name the thermodynamic process which takes place at constant temperature
- b) Write the differential expression for enthalpy of a system. Determine the change in enthalpy of a system for a reversible isobaric process
- c) What are the assumptions of Plank's law of radiation
- d) What are the output voltages of the 7805,7905,7812 and 7815 3-pin voltage regulator ICs?
- e) Given a transistor with a beta (β) value of 100, calculate the value of alpha (α) if the transistor is operating in the active region.
- f) Mention any two advantages of using hexa-decimal number in digital system.

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SECTION - B

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

(4x10=40)

UNIT-I

- 2.a) What is an adiabatic process? Write the equation of state of an adiabatic process and derive the expression for work done. (6)
- b) Draw the schematic representation of the basic features of a Refrigerator and describe the sequence of operations carried out in it. How is its efficiency measured? (4)
- 3.a) What is Carnot Engine? Describe the steps involved in the operation of Carnot Engine and hence derive the expression for its efficiency. (6)
- b) What is an Isothermal Process? Write the equation of state for an isothermal Process and derive the expression for Work done during an isothermal process. (4)

UNIT-II

- 4.a) Write the expression for the Gibbs free energy of a system. Express it in differential form and deduce the Maxwell's relation connecting change in volume to change in entropy. (6)
- b) State the law of equipartition of energy. Determine the ratio of specific heats of a mono atomic gas using Law of equipartition of energy. (4)

Contd...2

- 5.a) Define Joule-Thomson coefficient. Derive an expression for Joule-Thomson coefficient using Maxwell's relations. Using this expression determine the value of Joule Thomson coefficient for a perfect gas. (6)
- b) State Rayleigh Jeans law. When does it fail? What is ultraviolet catastrophe? (4)

UNIT-III

- 6.a) Explain the operation of a p-n junction diode under forward and reverse bias condition. (6)
- b) Provide a description of the voltage divider biasing technique used for transistor circuits. (4)
- 7.a) What is a rectifier? Explain how does a half-wave rectifier convert AC voltage to DC voltage? (6)
- b) Explain the principle of operation of a Zener voltage regulator. (4)

UNIT-IV

- 8.a) State and Prove De-Morgan's Theorem. (6)
- b) Describe the ideal characteristics of an Op-Amp (4)
- 9.a) Illustrate the circuit diagram of an Op-Amp adder and explain its function in combining four input voltages (6)
- b) Describe the operation of XOR gate and XNOR gate, presenting their truth table. (4)

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

10. Given an automobile engine with an efficiency of 28% and producing 2818 J of work. Determine the amount of heat rejected by the engine during its operation.
11. Estimate the heat radiated by a human body. Assume that surface area of a person's body is 1.6 m^2 . Internal body temperature is 36°C and the skin temperature is 26°C . Emissivity of skin is 0.96
12. In a transistor circuit, if the emitter current (I_E) is 6 mA and the collector current (I_C) is 5.6 mA, calculate the common-emitter current gain (β) of the transistor.
13. Convert the following hexadecimal numbers to decimal number
- a) $(EB)_{16}$
- b) $(92)_{16}$

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St Aloysius College(Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination

May - 2024

Chemistry

Inorganic and Physical Chemistry-II

Time: 2 ½hrs

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 2 sentences (8x1=8)

- Define octet rule.
- Water though has sp^3 hybridisation is found to have a bond angle of 104° instead of 109° . Give reason.
- Draw the energy level diagram for He^{2+} molecule.
- Give two limitations of valence bond theory.
- Explain the term residual entropy.
- Explain the term heterogeneous catalysis.
- Give the mathematical expression for rate constant of inversion of cane sugar.
- Write Debye-Huckel Onsagar equation.

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PART – B

Answer any EIGHT the following questions (8x3=24)

- Calculate the number of particles in the unit cell of :
 i) Caesium chloride ii) Zinc Blende
- Calculate the lattice energy of KBr. The heat of sublimation of potassium is 21 kcal/mol, ionisation potential of potassium is 99 kcal/mol, electron affinity of bromine is -80 kcal/mol. Heat of formation of solid KBr from its elements is -97 kcal/mol.
- Metals are malleable and ductile. Explain.
- Explain the combination of $2p_x$ - $2p_x$ & $2p_y$ - $2p_y$ with the help of schematic diagram.
- Describe the arrangement of ions in the unit cell of fluorite crystal. Give its coordination ratio.
- Give Freundlich adsorption equation and explain the terms involved in it.
- Explain the relationship between transport number and mobility.

Contd...2

- viii) Give any three applications of conductivity measurement.
- (ix) Calculate the change in entropy when one mole of steam at a pressure of 101.3 kPa is allowed to expand to 10.13 kPa at constant temperature.
- (x) One mole of an ideal gas at 30°C is allowed to expand isothermally and reversibly at a constant temperature from a volume of 10 cm³ to 20 cm³. Calculate the maximum work done.

PART -C

Answer any SEVEN of the following questions

(7x4=28)

3. Explain the properties of intrinsic and extrinsic semiconductors based on band theory.
4. Explain the structure of IF₇ using VSEPR theory.
5. Describe Born Haber cycle of NaCl.
6. Calculate the radius ratio for a compound with coordination number 6.
7. Draw the molecular orbital energy level diagram for HCl. Show the filling up of electrons, calculate bond order and explain the magnetic property.
8. Explain thermodynamic scale of temperature.
9. Explain the principle and procedure for the determination of degree of dissociation and dissociation constant of a weak acid.
10. Explain simple collision theory based on hard sphere model.
11. Derive an expression for rate constant of a second order reaction with equal concentrations.

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St Aloysius College (Autonomous) Mangaluru

B.Sc SEMESTER IV -DEGREE EXAMINATION

MAY - 2024

Mathematics - IV

Partial differential equation and Integral transforms

Max. Marks : 60

Time : 2 ½ Hours

PART - AAnswer any SIX of the following .

(6×2=12)

- Find the order and degree of $z\left(\frac{\partial z}{\partial x}\right)^2 + \frac{\partial^3 z}{\partial y^3} = 3xy$.
- Form a partial differential equation by eliminating the constants a and b from $z = ax + a^2y^2 + b$.
- Classify the partial differential equation $4u_{xx} + 9u_{yy} + 6u_{xy} = 0$.
- Define an elliptic partial differential equation.
- Find the Laplace transform $\cos^2 kt$.
- Evaluate the Laplace transform of $\phi(t) = \begin{cases} t, & 0 < t < 4 \\ 5, & t > 4 \end{cases}$.
- Evaluate $\mathcal{L}^{-1}\left\{\frac{1}{s(s+1)}\right\}$ using Convolution theorem.
- Find the inverse Laplace transform of $\frac{6s+3}{s^2}$.

PART - BUNIT - IAnswer any TWO of the following .

(2x6=12)

- Form a partial differential equation by eliminating the arbitrary function f from
i) $z = e^{ny} f(x - y)$ ii) $z = y^2 + 2f\left(\frac{1}{x} + \log y\right)$.
- Solve:
i) $p - q = \frac{z}{x+y}$ ii) $xyp + y^2q = x(zy - 2x)$.
- Solve: $\left(\frac{b-c}{a}\right)yzp + \left(\frac{c-a}{b}\right)zxq = \left(\frac{a-b}{c}\right)xy$.

UNIT - IIAnswer any TWO of the following .

(2x6=12)

- Solve: $\frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} = 12(x + y)$.
- Solve: $(D^2 - 2aDD' + a^2D'^2)z = f(y + ax)$.
- Solve: $(D^3 - 4D^2D' + 4DD'^2)z = 0$.

UNIT - IIIAnswer any TWO of the following .

(2x6=12)

- Evaluate the Laplace transform of the following:
i) $\frac{e^{-at} - e^{-bt}}{t}$ ii) $f(t) = e^{-2t} \sin 3t$.
- Find the Laplace transform of $f(t) = \begin{cases} t, & 0 < t < \pi \\ \pi - t, & \pi < t < 2\pi \end{cases}$ where $f(t + 2\pi) = f(t)$.
- Evaluate:
i) $\mathcal{L}\{\sin\sqrt{t}\}$ ii) $\mathcal{L}\{2^t\}$.

UNIT - IVAnswer any TWO of the following .

(2x6=12)

- Evaluate :
i) $\mathcal{L}^{-1}\left\{\frac{1}{s^2 - 6s + 10}\right\}$ ii) $\mathcal{L}^{-1}\left\{\frac{1}{s(s^2 + 9)}\right\}$.
- Evaluate:
i) $\mathcal{L}^{-1}\left\{\frac{1}{2}\left[\frac{1}{s^2 + 4} - \frac{3}{s^2 + 3} + \frac{2}{s^2 + 16}\right]\right\}$ ii) $\mathcal{L}^{-1}\left\{\frac{1}{s+2} - \frac{3}{2s+5} - \frac{4}{3s-2}\right\}$.
- Solve the differential equation $y''(t) + 6y'(t) + 9y(t) = 6t^2 e^{-3t}$, $y(0) = 0$, $y'(0) = 0$ using Laplace transformations.

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St Aloysius College (Autonomous)**Mangaluru****B.Sc. Semester IV – Degree Examination****May -2024****ELECTRONICS****ELECTRONIC COMMUNICATIONS, MICROPROCESSORS AND DIGITAL DESIGN
USING VERILOG****Max Marks: 60**

Time: 2 ½ hrs.

**Note: This question paper has TWO sections- SECTION A AND SECTION B.
Answer both the sections.****SECTION – A****I. Choose the correct answer from the choices given at the end of each question and write the correct answer. (6x1=6)**

- The range of VSWR (Voltage Standing Wave Ratio) lies between ___ and ____
a) 0 ,1 b) 1 , infinity c) 0, infinity d) 1, 10
- Field repetition frequency is _____.
a)15,625Hz b) 25Hz c) 50 Hz d) 64 Hz
- Space wave frequency range is above_____
a)3kHz b) 3MHz c) 30kHz d) 30MHz
- _____is an example for direct addressing mode.
a) MVIA,66H b)MOV A,B c) LDA F100 d) MOVA,B
- _____ address lines are required to address a 64 kbytes of memory.
a) 8 b)12 c)16 d)20
- DAD H instruction in 8085 microprocessor, adds the contents of _____.
a) HL and DE b)HL and HL c) HL and BC d) DE and BC

II. Answer any SIX questions: (6x1=6)

- Draw the circuit diagram of a slope detector to demodulate FM signal.
- Give the equation for characteristic impedance of a i) Parallel and ii) coaxial transmission line.
- Define "Critical Frequency".
- What do you mean by Ground wave propagation?
- What is the function of Zero flag?
- What is the content of A register after the execution of instruction XRA,A.
- Mention the data bus of 8085 microprocessor.
- Mention any one feature of Verilog HDL.

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

- Define Standing Wave Ratio (SWR)and give the equation in terms of reflection coefficient.
- Mention the a) frequency ranges and b)Intermediate Frequencies of AM and FM.
- Draw the block diagram of a "Transponder" in satellite communication.
- Find the Height and width of a Television of size 50 inches.

Contd...2

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- v. What is the content of Register B after the execution of the instruction MVIB, 82 H.
- vi. With an example explain any one arithmetic instruction of 8085 microprocessor
- vii. Mention any two differences between a microcomputer and minicomputer.
- viii. With example explain the declaration of ports in Verilog HDL.

SECTION - B**IV. Answer any FOUR questions:****(4x4=16)**

- i. Derive the expression for Characteristic impedance Z_0 of an infinitely long cable.
- ii. For a channel lying in the range (51-57) MHz, determine
 - i) The value of picture carrier frequency
 - ii) The value of sound carrier frequency
 - iii) The value of SIF and VIF
 - iv) Draw the channel diagram
- iii. Derive the relation between Maximum Usable Frequency (MUF) and Critical Frequency for a Ionospheric layer.
- iv. With example explain different data types in Verilog HDL.
- v. With a block diagram explain a microcomputer.
- vi. With the help of bit pattern diagram explain the flag register of 8085 microprocessor

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V. Answer any FOUR questions:**(4x5=20)**

- i. With necessary diagram explain Plumbicon Camera Tube in Television Communication.
- ii. Explain the different layers of ionosphere. Discuss the role of these layers in radio wave communication.
- iii. With a neat circuit diagram explain a balanced slope detector to demodulated FM signal.
- iv. What is top-down design approach in VHDL? Explain with necessary diagram.
- v. Draw the labeled diagram of architecture of 8085 microprocessor.
- vi. With syntax and example explain any two arithmetic instructions of 8085 microprocessor

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester IV – Degree Examination

May - 2024

COMPUTER SCIENCE - IV

RELATIONAL DATABASE MANAGEMENT SYSTEMS USING MYSQL

Time: 2 ½ hours

Max Marks: 60

PART – A

1. Answer any **SIX** of the following. (6x2=12)
- Write the purpose of COMMIT and ROLLBACK statements.
 - Define (i) AUTO_INCREMENT (ii) UNIQUE
 - What is Second Normal Form (2NF)?
 - What do you mean by relational algebra.?
 - Delete all records from EMPLOYEE (EMPNO, ENAME, DOB, DOJ, DEPT_NAME) where DEPT_NAME is 'SALES'.
 - How does ALTER instruction is used to rename the table?
 - Name any four aggregate functions.
 - List the desirable properties of Transaction.

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PART – B

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

UNIT - I

- Define Data Independence. Mention and explain the different types of Data Independence. (6)
 - Discuss the characteristics of the Database Management system. (6)
- Explain the responsibilities of the Database Administrator. (6)
 - Explain different types of cardinality ratios with example for each. (6)

UNIT – II

- Explain any four Join operations with example. (6)
 - Explain Cartesian Product with example. (6)
- Why SELECT operation is used in relational algebra? Explain with example. (6)
 - Explain with example each about insertion, deletion and modification anomalies. (6)

Contd...2

UNIT – III

6. a) Explain Primary Key definition at the table level and column level with examples. (6)
- b) Explain CREATE table and INSERT table commands with example. (6)
7. a) Explain the following clauses: i) IN ii) NOT IN iii) BETWEEN with example each. (6)
- b) Consider the following table and write the CREATE statement. (6)
 STUDENT (REG_NO, S_NAME, DOB, COURSE, SEMESTER).
 Write the insert statements for the table. Write the following Queries.
- a) Display all students of second semester 'BSc'
- b) Change the course name of the student "Anamika" from 'BBA' to 'BCA' of first semester.
- c) Display the list of students whose name is 5 characters long.
- d) Create a new table STUDENT_COURSE with records from STUDENT table with only Register number and name for the BA course.

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UNIT – IV

8. a) Explain the different conditional statements in MySQL. (6)
- b) What is view? Explain with syntax and example how it is created. (6)
9. a) Explain with syntax and example, the usage of the following looping statements: i) WHILE ii) LOOP (6)
- b) Explain the MySQL Error handling techniques with example in stored procedure. (6)

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St Aloysius College (Autonomous)**Mangaluru****B.Sc. Semester IV – Degree Examination**

May - 2024

STATISTICS - IV**STATISTICAL INFERENCE I**

Time: 2 1/2 Hours.

Max Marks: 60

Note: Answer all parts

PART – A**I. Answer any FIVE of the following:**

(2x5=10)

- Let $X \sim P(\lambda)$, then find the sufficient statistic for λ .
- If T is unbiased for θ , show that \sqrt{T} is biased for $\sqrt{\theta}$.
- Define randomized tests.
- What do you mean by a statistical hypothesis?
- Write the test statistic for testing the population proportion, $H_0: p=p_0$
 $H_1: p \neq p_0$.
- Find the MP test for testing $H_0: p=p_0$ against $H_1: p=p_1$, when the sample is drawn from a Bernoulli population with parameter p .
- Write the large sample confidence interval for estimating the difference between the population means.

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PART – B**II. Answer any FIVE of the following.**

(10x5=50)

- a) Prove that Sample mean square is an unbiased estimator of the population variance. (6)
- b) Find the sufficient statistic for the parameter p when the observations are drawn from a Bernoulli distribution. (4)
- a) Verify whether sample mean of an exponential distribution is a consistent estimator. (2)
- b) Prove that the relative efficiency of $X_{(1)}$ over $X_{(n)}$ is unity, when $X \sim U(0, \theta)$. (8)
- a) Find the moment estimators of the parameters of Double parameter Gamma distribution. (6)
- b) Find the MLE of the parameter of Poisson distribution. (4)
- a) Find the BCR for testing $H_0: \theta = \theta_0$ against $H_1: \theta = \theta_1$, when the observations are drawn from $N(\theta, \sigma^2)$. (5)
- b) Find the most powerful test for testing $H_0: \theta = \theta_0$ against $H_1: \theta = \theta_1$, when the observations are drawn from a Poisson distribution. (5)

Contd...2

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12. a) Explain the small test procedure for testing the population mean. (5)
b) Briefly explain one tailed and two tailed tests with the corresponding hypothesis. (5)
13. a) Derive the 95% confidence interval for estimating population proportion. (4)
b) Derive the $100(1-\alpha)\%$ confidence interval for estimating the ratio of population variances when two independent samples are drawn from Normal populations. (6)
14. a) Derive the $100(1-\alpha)\%$ confidence interval for estimating the population variance when a sample is drawn from $N(\mu, \sigma^2)$. (4)
b) Derive the 95% confidence interval for the difference between the two population means when the samples are drawn from two Normal populations. (6)

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester IV – Degree Examination

May - 2024

BOTANY - IV

ECOLOGY AND CONSERVATION BIOLOGY

Time: 2½ hrs.

Max Marks: 60

Note: i) Answer all the sections.

ii) Draw diagrams wherever necessary.

SECTION -A

I. Answer any FIVE of the following.

(5x2=10)

1. What is relative humidity?
2. Define autecology.
3. What is Community?
4. What is sampling? Mention the methods.
5. What is environmental pollution?
6. What is Interpretive phytogeography?
7. Pollen bank is Ex-situ conservation method. Give reasons.
8. What is habitat diversity?

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SECTION -B

II. Answer any SIX of the following.

(6x5=30)

1. Explain the morphological adaptations of the following:
a) *Acacia* b) stem in *Casuarina*
2. Describe O- Horizon of soil.
3. Highlight on the energy flow and functions of ecosystems.
4. Explain the following: a) Population size b) Population Density.
5. Write short notes on deciduous forests in Karnataka.
6. Explain Eastern Himalayas as phytogeographical region of India.
7. Explain Western ghats as a biodiversity hotspot.
8. Explain the threats to biodiversity.

SECTION -C

III. Answer any TWO of the following.

(2x10=20)

1. Describe the methods of In-situ conservation.
2. *Pistia*, *Eichhornia*, *Hydrilla*, *Nymphaea* are hydrophytes. Justify.
3. What is ecosystem? Explain the biotic and abiotic components of pond ecosystem.
4. What is air pollution? Add a brief note on causes and effects of acid rain.

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St Aloysius College (Autonomous), Mangaluru

B.Sc. Semester IV – Degree Examination

May - 2024

ZOOLOGY**GENE TECHNOLOGY, IMMUNOLOGY AND COMPUTATIONAL BIOLOGY**

Time: 2½ Hours.

Max Marks: 60

Note:1

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)**

- a) Mention the applications of gene transfer technology.
- b) How can biosensors and biochips contribute to advancements in personalized medicine?
- c) How do antibiotic resistance genes in cloning vectors aid in the selection and identification of recombinant DNA-containing cells?
- d) What is DNA fingerprinting?
- e) Differentiate between pharmacogenomics and pharmacogenetics.
- f) Explain the concept of enzyme immobilization and provide a brief overview of one method used in the process.
- g) Name some of the databases used in bioinformatics.
- h) Give examples of any three protein sequence databases along with its full form.
- i) Represent pie chart with a diagram.
- j) Name the virus responsible for causing AIDS and expand AIDS.
- k) Define immunity and distinguish between innate and acquired immunity.
- l) Describe the concept of antigen diversity.

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PART – B**II. Answer any FOUR of the following.****(4X5=20)**

- a) Compare and contrast plasmid, phage, and cosmid vectors in molecular cloning applications.
- b) What are the three main types of microbiological culture media?
- c) Compare and contrast Sanger sequencing with Next-Generation Sequencing (NGS) in terms of methodology and applications.
- d) Describe Skewness with relevant graphical representation.

Draw a neat labeled diagram of a spleen, indicating its key anatomical features.

- e) Provide an overview of IgG

PART – C**III. Answer any TWO of the following.****(2X10=20)**

- a) Describe the process of rDNA technology in detail and add a note on its applications.
- b) Explain the significance of genetic analysis in understanding and treating human diseases.
- c) Explain the concept of RAM and its types.
- d) Analyze the lectin pathway of complement activation, comparing it with the classical and alternative pathways.

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St Aloysius College (Autonomous), Mangaluru

B.Sc. Semester IV– Degree Examination

May - 2024

MICROBIOLOGY-IV

MICROBIAL ENZYMOLOGY AND METABOLISM

Time: 2½ Hours.

Max Marks: 60

Instructions: Answer PART A , B AND C

Draw Diagrams wherever necessary.

PART – A

1. Define/Answer any TEN of the following: (10x2=20)
- Importance of cyanobacteria
 - Name the enzyme EC 1.1.1.1
 - Anaplerotic reactions
 - Fatty acid synthase
 - What are Bacteriochlorophylls?
 - What is pigging?
 - Physical nitrogen fixation.
 - Heterotrophs. Give one example.
 - Give example for absolute specificity
 - Beta oxidation pathway in lipid catabolism
 - What is the effect of pH on enzyme activity?
 - Nod factors.

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PART – B

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

- Explain butanediol fermentation
- Explain the composition of biofilm matrix
- Discuss phosphate solubilising microbes.
- Explain Anammox.
- Discuss briefly the characteristics of non competitive inhibition
- Write a note on acid base catalysis

PART – C

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

- Discuss mixed acid Fermentation
- Explain the importance of Reductive pentose pathway and Pyruvate Synthetase Pathway?
- Define Enzymes. Explain the classes of enzymes in detail
- Discuss Nitrogen cycle in detail

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St Aloysius College (Autonomous)**Mangaluru****B.Sc. Semester IV – Degree Examination**

May/June - 2024

BIOCHEMISTRY**ANALYTICAL BIOCHEMISTRY**

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. (5×2=10)

- Mention the types of rotors.
- Why ascending chromatography is more effective than descending chromatography.
- What is isoelectric focusing?
- Write the importance of ^{60}Co .
- Define Beer-Lambert's law.
- What is fluorimeter?

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PART – BAnswer any FOUR of the following. (4×5=20)

- Write a note on ultra centrifugation.
- Explain principle and applications of GLC.
- Write the principle and applications of immuno-electrophoresis.
- Write the principle and working Ion exchange chromatography
- How will you determine molar absorption coefficient?

PART – CAnswer any THREE of the following: (3×10=30)

- How intra cellular protein can be purified from tissues and cells? Explain.
- Explain different types of paper chromatography.
- Discuss on principle and working of SDS PAGE.
- Explain in detail MRI and flame photometer.

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**St Aloysius College (Autonomous)
Mangaluru**

B.Sc. Semester IV – Degree Examination

May - 2024

**BIOTECHNOLOGY
MOLECULAR BIOLOGY**

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:

(5×2=10)

- What is the function of the enzyme topoisomerase?
- What is semi conservative mode of DNA replication?
- Expand SOS. When does the body activate this mechanism?
- Differentiate between duplex and heteroduplex
- Define introns and describe their structural characteristics.
- Write the difference between cis-acting regulatory element and trans-acting factor.
- Identify an enzyme involved in phosphorylation, a common post-translational modifications.
- Name the structural genes and their corresponding products in the Lac operon.

PART – BAnswer any **SIX** of the following:

(6×5=30)

- Differentiate between A and Z DNA
- Write short notes on histones
- Explain nucleotide excision repair
- Describe the consequences of DNA damage
- Describe the structure and function of prokaryotic RNA polymerase.
- Analyze the mechanisms of transcriptional inhibition by rifampicin.
- Describe the structure and function of the tryptophan operon.
- Describe the structure of ribosomes in prokaryotes and eukaryotes.

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

(2×10=20)

- Describe the experiment of Hershey Chase
- Give an account on DNA strand breaks and oxidative damage of DNA
- Explain the process of transcription in prokaryotes.
- Discuss the characteristics of the genetic code.

(2021 Batch onwards)

G 110-DC1.4/512 DC1.4

Reg. No.

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St Aloysius College (Autonomous)

Mangaluru

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

May -2024

COMPUTER ANIMATION - IV

3D MODELING

Time: 2½ hrs.

Max Marks: 60

PART - A

Answer any FIVE of the following.

(5x2=10)

1. a) How to give outline for spline objects?
- b) Name any 2 Boolean methods.
- c) Name 3 transformation tools.
- d) Name any 4 extended splines.
- e) Name any 4 types of foliage.
- f) Name the different types of stairs.
- g) How to assign hotkey in Maya?

PART - B

Answer any FOUR of the following.

(4x5=20)

2. What are the NURBS?
3. Explain the steps to create a pot and table lamp.
4. Explain few modify options of railings.
5. Explain the steps to create Garden scene in 3D.
6. Write down the steps of creating dining table & chair set.
7. Explain the steps to create Lock & key.

PART - C

Answer any Two of the following:

(2x15=30)

8. Explain briefly about nonlinear deformers of Maya.
9. Write a note on editable spline.
10. Write a note on AEC extended objects

G 513 DC1.4

(2021 Batch Onwards)

Reg. No. :

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St Aloysius College (Autonomous)
Mangaluru

B.Sc.- SEMESTER IV – Degree Examination

May - 2024

ECONOMICS –IV (a)
MACRO ECONOMICS - II

Time: 2½ Hours.

Max. Marks: 60

SECTION - A**I. Answer any FIVE of the following:**

(5×2=10)

1. Define macroeconomics.
2. Give the meaning of welfare economics.
3. What are the five forms of wealth given by Milton Friedman?
4. What is inflationary gap?
5. List out the methods of measuring unemployment.
6. What is the difference between absolute and relative poverty?
7. Give the meaning of subsidy.
8. Distinguish between current and capital account of balance of payment.

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

(6×5=30)

9. Write a note on problems in measuring welfare.
10. Briefly explain the characteristics of monetary economy.
11. Briefly explain the measures of money supply in India.
12. Briefly explain the various types of unemployment.
13. Write a note on causes of deflation.
14. Write a note on types of business cycles.
15. Distinguish between private and public goods.
16. Briefly explain the types of tariffs.
17. Briefly explain the pros and cons of globalization.

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

(2×10=20)

18. Explain the scope and uses of macroeconomics.
19. Explain the effects of inflation.
20. Explain the various canons of taxation.
21. Explain the poverty alleviation programmes in India.

(2021 Batch Onwards)

G 513 DC2.4

Reg. No. :

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St Aloysius College (Autonomous)**Mangaluru****B.Sc. - Semester IV – Degree Examination****May - 2024****ECONOMICS IV (b)****APPLIED ECONOMETRICS**

Time: 2½ hrs.

Max Marks: 60

PART - A**I. Answer any FIVE of the following.****(5×2=10)**

1. How to check reliability in Jamovi.
2. What do you mean by dynamic econometric model?
3. Write the steps in SPSS to find regression equation without constant.
4. Briefly explain empirical research.
5. What do you mean by categorical variables?
6. How do you explain Adhoc estimation?
7. Write the steps in SPSS to convert categorical variables to dummy variables.
8. How do you validate the scale?

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PART - B**II. Answer any SIX of the following.****(6×5=30)**

9. Write a note on simultaneous equation model.
10. Why dummy variable is superior to chow test. Explain?
11. Distinguish between thesis and dissertation.
12. Briefly explain formulation of research problem.
13. Construct a dummy variable trap in the model and Explain how it can be avoided using SPSS.
14. How do you write a research report? Explain.
15. How to write methodology in research? Explain.
16. Distinguish between distributed and autoregressive lag model.
17. Briefly explain abbreviations and bibliography style in research.

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

18. Briefly explain Almon approach to lag model.
19. What is dummy variable? Briefly explain the nature of dummy variable.
20. How do you explain logistic model?
21. Briefly explain the various types of sampling.

(2021 - Batch onwards)

G 514 DC 1.4

Reg No :

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St Aloysius College (Autonomous)
Mangaluru
B.Sc FOURTH SEMESTER DEGREE EXAMINATION
MAY - 2024
Food Science - IV
Fundamentals of Food Chemistry & Microbiology

Time : 2 ½ Hours

Max. Marks : 60

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

PART - A

Answer any FIVE of the following.

(2×5=10)

- 1.a) What is Caramelization?
- b) What are protamines and Globins?
- c) What is rancidity
- d) What are lipids?
- e) What are eukaryotes?
- f) write the contribution of Robert Koch.
- g) What are Aflatoxins?

PART - B

Answer any SIX of the following.

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(5×6=30)

2. Explain the immune response, disease caused and examples for endotoxin and exotoxin.
3. How is water activity measured? Explain.
4. Give the functional properties of sugars.
5. Write a note on enzymes and their uses in food industry
6. Elaborate on major minerals.
7. Explain the scope of microbiology.
8. Define Microbial growth. Draw the microbial growth curve.
9. Brief about Endotoxin

PART - C

Answer any TWO of the following .

(10×2=20)

10. How pasteurization, filtration, radiation, halogens, sterilizing agents and heavy metals help to control micro organisms?
11. Explain the classification of microorganisms
12. How does food chemistry play a role in addressing global food security challenges?

(2022 Batch onwards)

G 701 DC1.4

Reg. No.

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St Aloysius College (Autonomous)

Mangaluru

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

May - 2024

SCRIPTING AND STORYBOARDING

Max Marks: 60

Time: 2½ hrs.

PART - A

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

1. Three Act Structure
2. Literary devices
3. Animatics
4. Montage
5. Rule of Third
6. Antagonist
7. Synopsis

PART - B

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

8. What is creative process? Explain with examples.
9. Create a short dialogue scene utilizing at least two literary devices commonly found in scripts. Explain the significance of each device in enhancing the scene's effectiveness and impact on the audience.
10. Mention the style guide necessary for creating a shooting script.
11. Suppose you're tasked with creating a storyboard for a live-action film, how would you approach the storyboard differently compared to if you were creating one for an animated feature? Discuss the specific techniques and considerations you would apply for each type of storyboard.
12. Describe the significance of colour in design and composition. How does the choice of colour scheme influence the viewer's perception of a piece? Provide examples of how different colour combinations evoke varying emotions or convey specific messages within a composition.

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PART - C

Answer any **TWO** of the following in 200 – 300 words each or (2x15=30) according to the need of the question.

13. Analyse the key components and structural elements of both the Three Act Structure and the Five Act Structure in screenplay writing. Compare and contrast how each structure organizes plot development, character arcs, and thematic progression. Provide specific examples from well-known films or plays.
14. Analyse the narrative techniques of point of attack, exposition, and contrast in a selected piece of literature or film. Provide examples from the text or movie to illustrate how these techniques contribute to the overall effectiveness of the narrative structure. Evaluate the significance of each technique in shaping the audience's understanding of the story and its themes.
15. Create a storyboard for a short film keeping in mind the elements of a neat storyboard.

(2022 Batch onwards)

G 701 DC2.4

Reg. No.

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. (Visual Communication) Semester IV – Degree Examination
May - 2024

SOUND DESIGN FOR VISUAL MEDIA

Time: 2½ hrs.

Max Marks: 60

PART - A

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

1. Spatial sound perception
2. Diffusion panels
3. ADR
4. Pop filters
5. Mp3
6. Amplitude and loudness
7. Ambience sound

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PART - B

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

8. Explain the process of audio mixing for television and visual media.
9. Describe the relationship between frequency and pitch.
10. Define audio as a communication medium.
11. Discuss the properties of a microphone.
12. Analyse the importance of selecting the right audio format for a specific project.

PART - C

Write a detailed note on any **TWO** of the following in 200 – 300 words each. (2x15=30)

13. Evaluate the impact of music and dialogues in film with relevant examples.
14. Analyse the process of setting audio levels for sound production, considering the need for clarity and balance in multi-speaker environments.
15. Discuss the importance of sound in visual media, considering its importance in achieving aesthetic coherence.

(2022 Batch onwards)

G 701 DC3.4

Reg. No.

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. (Visual Communication) Semester IV – Degree Examination
May - 2024

CORPORATE COMMUNICATION

Time: 2½ hrs.

Max Marks: 60

PART - A

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

1. PRCI
2. Top Down approach
3. TATA
4. Brochures
5. Corporate image
6. Social Media Campaign
7. PR Agency

PART - B

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

8. Define corporate image and corporate identity. Discuss the key differences between the two concepts.
9. List three benefits of practicing CSR for companies. Explain how each benefit contributes to the overall success of the organization.
10. Explain the difference between verbal and nonverbal communication in a business context.
11. What is Public Relation? Explain the process of PR.
12. Define rebranding and provide three examples of companies that have undergone successful rebranding efforts.

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PART - C

Write a detailed note on any **TWO** of the following in 200 – 300 words each. (2x15=30)

13. Define visual identity and provide examples of visual elements commonly associated with it.
14. Explain the role of social media in corporate Communication.
15. Explain the concept of reputation management in the context of public relations detailing its importance for organisations.

(2021 batch onwards)

G 701 AE1.4

Reg. No:

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**St Aloysius College (Autonomous)
Mangaluru**

**B.A / B.Sc./B.C.A. - Semester IV – Degree Examination
May - 2024**

**Ability Enhancement Compulsory Course
Constitution of India And Value Education**

Time: 2½ Hours

Max. Marks: 60

PART – A

Constitution of India

I. Answer any **FIVE** of the following questions.

(5x2=10)

- ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.
1. Which day is celebrated as constitutional day in India? What is its significance.
ಭಾರತದಲ್ಲಿ ಯಾವ ದಿನವನ್ನು ಸಂವಿಧಾನ ದಿನವೆಂದು ಆಚರಿಸಲಾಗುತ್ತದೆ ? ಇದರ ಮಹತ್ವವೇನು?
 2. Name the amendment and the year that deleted Right to Property from the list of Fundamental Rights of Indian Constitution.
ಭಾರತದ ಸಂವಿಧಾನದ ಮೂಲಭೂತ ಹಕ್ಕುಗಳ ಪಟ್ಟಿಯಿಂದ ಆಸ್ತಿಯ ಹಕ್ಕನ್ನು ತೆಗೆದು ಹಾಕಿದ ವರ್ಷ ಮತ್ತು ತಿದ್ದುಪಡಿಯನ್ನು ಹೆಸರಿಸಿರಿ.
 3. What is meant by unicameral legislature? Name a Indian state which follows unicameral legislature system?
ಏಕ ಸದನ ಶಾಸಕಾಂಗವೆಂದರೇನು? ಏಕಸದನ ಶಾಸಕಾಂಗ ವ್ಯವಸ್ಥೆಯನ್ನು ಅನುಸರಿಸುವ ಯಾವುದಾದರೂ ಒಂದು ಭಾರತದ ರಾಜ್ಯವನ್ನು ಹೆಸರಿಸಿ.
 4. Mention any two features of 74th Constitutional Amendment.
೭೪ನೇ ಸಂವಿಧಾನ ತಿದ್ದುಪಡಿಯ ಯಾವುದಾದರೂ ಎರಡು ಲಕ್ಷಣಗಳನ್ನು ಬರೆಯಿರಿ.
 5. Who administers an oath of office to the President of India? Name the present President of India.
ಭಾರತ ರಾಷ್ಟ್ರಪತಿಯ ಪ್ರತಿಜ್ಞಾ ವಿಧಿಯನ್ನು ಯಾರು ನಡೆಸಿಕೊಡುತ್ತಾರೆ? ಭಾರತದ ಪ್ರಸ್ತುತ ರಾಷ್ಟ್ರಪತಿಯನ್ನು ಹೆಸರಿಸಿ.
 6. What is the retirement age of the judges of the Supreme Court? Who is the present Chief Justice of India?
ಸುಪ್ರೀಂ ಕೋರ್ಟಿನ ನ್ಯಾಯಾಧೀಶರ ನಿವೃತ್ತಿ ವಯಸ್ಸೆಷ್ಟು ? ಭಾರತದ ಪ್ರಸ್ತುತ ಮುಖ್ಯ ನ್ಯಾಯಾಧೀಶರು ಯಾರು?
 7. Which is the upper house of the Indian Parliament? What is its term ?
ಭಾರತ ಸಂಸತ್ತಿನ ಮೇಲ್ಮನೆ ಯಾವುದು ? ಇದರ ಅಧಿಕಾರ ಅವಧಿ ಎಷ್ಟು ?
 8. Name any two religious minority communities in India.
ಭಾರತದ ಯಾವುದಾದರೂ ಎರಡು ಧಾರ್ಮಿಕ ಅಲ್ಪ ಸಂಖ್ಯಾ ಸಮುದಾಯವನ್ನು ಹೆಸರಿಸಿ.

II. Answer any **FIVE** of the following questions.

(5x5=25)

- ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.
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9. Write the preamble of the Indian Constitution.
ಭಾರತ ಸಂವಿಧಾನದ ಪೂರ್ವ ಪೀಠಿಕೆಯನ್ನು ಬರೆಯಿರಿ.
 10. Write a note on the constituent Assembly of India.
ಭಾರತದ ಸಂವಿಧಾನ ರಚನಾ ಸಭೆಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
 11. Examine the Socialist and Liberal Principles of Directive Principles of State Policy.
ರಾಜ್ಯ ನಿರ್ದೇಶಾತ್ಮಕ ತತ್ವಗಳಲ್ಲಿನ, ಸಮಾಜವಾದಿ ಮತ್ತು ಉದಾರವಾದಿ ತತ್ವಗಳನ್ನು ಪರಿಶೀಲಿಸಿ ಬರೆಯಿರಿ.
 12. Write a short note on public interest litigation.
ಸಾರ್ವಜನಿಕ ಹಿತಾಸಕ್ತಿ ಮೊಕದ್ದಮೆಯ ಬಗ್ಗೆ ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
 13. Explain any five powers and functions of Election commission of India.
ಭಾರತದ ಚುನಾವಣಾ ಆಯೋಗದ ಯಾವುದಾದರೂ ಐದು ಅಧಿಕಾರ ಮತ್ತು ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿರಿ
 14. Explain any powers of the Indian Parliament.
ಭಾರತದ ಸಂಸತ್ತಿನ ಯಾವುದಾದರೂ ಐದು ಅಧಿಕಾರಗಳನ್ನು ವಿವರಿಸಿರಿ.
 15. Explain the role of Chief Minister.
ಪ್ರಧಾನಮಂತ್ರಿಯವರ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿರಿ.

Contd...2

G 701 AE1.4

Page No. 2

III. Answer any ONE of the following question.

(1x10=10)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಉತ್ತರಿಸಿ.

16. Explain the salient features of Indian Constitution.
ಭಾರತದ ಸಂವಿಧಾನದ ಪ್ರಮುಖ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿರಿ.
17. Examine the composition and jurisdiction of Supreme Court.
ಸರ್ವೋಚ್ಚ ನ್ಯಾಯಾಲಯದ ರಚನೆ ಮತ್ತು ಕಾರ್ಯವ್ಯಾಪ್ತಿಯನ್ನು ವಿವರಿಸಿರಿ.
18. Explain the powers and functions of the President of India.
ಭಾರತ ರಾಷ್ಟ್ರಪತಿಯ ಅಧಿಕಾರ ಮತ್ತು ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿರಿ.

**PART - B
VALUE EDUCATION**

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

(5x1=5)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಒಂದು ಪುಟಕ್ಕಿಂತ ಮೀರದಂತೆ ಬರೆಯಿರಿ.

19. What is corruption? What are the reasons for corruption?
ಭ್ರಷ್ಟಾಚಾರ ಎಂದರೇನು? ಭ್ರಷ್ಟಾಚಾರಕ್ಕೆ ಇರುವ ಕಾರಣಗಳೇನು?
20. Write the short note on RTE 2009?
ಶಿಕ್ಷಣ ಕಾಯ್ದೆ ೨೦೦೯ರ ಬಗ್ಗೆ ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

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

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಎರಡು ಪುಟಕ್ಕಿಂತ ಮೀರದಂತೆ ಬರೆಯಿರಿ.

21. Explain the role of youth in Environmental Protection.
ಪರಿಸರ ಸಂರಕ್ಷಣೆಯಲ್ಲಿ ಯುವಕರ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿರಿ.
22. Explain the provisions aimed at curbing or combating Sexual Harassment at work place.
ಕೆಲಸದ ಸ್ಥಳದಲ್ಲಿ ಲೈಂಗಿಕ ಕಿರುಕುಳವನ್ನು ನಿಗ್ರಹಿಸುವ ಅಥವಾ ಎದುರಿಸುವ ಗುರಿಯನ್ನು ಹೊಂದಿರುವ ನಿಬಂಧನೆಗಳನ್ನು ಬರೆಯಿರಿ.

(2021 batch onwards)

G 711 SB 1.4

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St Aloysius College (Autonomous)**Mangaluru****B.A/B.B.A/B.Sc./B.C.A- IV Semester****May - 2024****(Skill enhancement Course)****FINANCIAL EDUCATION AND INVESTMENT AWARENESS****Time: 2 Hours****Max Marks: 50****SECTION A****Answer any FIVE of the following****(2x5=10)**

1. What is IPO?
2. How GDP is computed?
3. State any two differences between Compound Interest and Simple Interest.
4. What is Cash flow statement?
5. What is diversification?
6. What is meant by Insurance?
7. Expand-a. NSDL b. CDSL

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SECTION B**Answer any SIX of the following:****(5 X 6 =30)**

8. Write a note on NEFT and RTGS.
9. What is Mutual fund? State its features.
10. Write a note on PMJDY and PPF.
11. What are the objectives of Investment? Explain.
12. Differentiate between Fundamental Analysis and Technical Analysis.
13. Write a note on NSE.
14. Write a note on Factors of production.
15. Prepare a specimen format of personal Budget.

SECTION C**Answer any ONE of the following:****(10x1=10)**

16. Explain the Key players in the stock market.
17. What are the functions of RBI? Explain.

G 735 LA1.4

(2021 batch onwards)

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**St Aloysius College (Autonomous)
Mangaluru**

**B.A./ B.Com./B.B.A./B.Sc./B.C.A. - Semester IV - Degree Examination
May - 2024
ENGLISH**

Time: 2½ hrs.

Max Marks: 60

UNIT - I (PROSE)

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

1. Which tribe did Chief Seathl belong to?
2. Name the place where Stephen Leacock grew up and which is now converted into a National Historic Site of Canada.
3. "Rich people are troubled with _____ all the time."
4. Which book written by Arundhati Roy was awarded the Booker Prize in 1997?
5. What according to Azim Premji is a criminal act?

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B Answer any THREE of the following in about 180-200 words each.

(3x5=15)

1. What, in the author's opinion, is the reason which ultimately compels him to resign himself to the Great Chief's offer of buying the land? Explain.
2. Why does Leacock remark that wealth is a "burden that one must carry"? Explain with reference to the essay, "Are the Rich Happy?"
3. "The greatest lessons in life are learnt from children, not from learned men." How does the author emphasize the significance of these words of Gandhi through his own experience?
4. In what ways is the "speaker" "the biggest trouble-maker"? Explain in the light of the lecture "Peace and the New Liberation Theology".

UNIT - II (POETRY)

II. Answer any TWO of the following in about 180-200 words each.

(2x5=10)

1. How does the reader become aware of the identity of the persona or the speaker? How and why do you think the speaker in the poem, 'Channel Firing' is represented in the form of a skeleton? Comment.
2. Comment on the influence of the "allure of power and unethical living" in the contemporary society in the light of the poem, 'The Second Coming'.
3. What does the poet advise people to do when they are in a difficult or conflicting situation? Elaborate in the light of the poem 'Stay Calm'.
4. Comment on the tone of the poem 'The Lynching'.

Contd...2

UNIT - III (SHORT - STORY)**III. Answer any TWO of the following in about 180-200 words each.****(2x5=10)**

1. Explain what happened during Kong's visit to the wine tavern after the mid-autumn festival. Did he visit the tavern? What do you know about Kong Yiji after the mid-autumn festival? Comment.
2. Summarize the peasant's narration of the conversation between the hermits and their behaviour on the island as he witnessed them.
3. How was the hermits' way of serving God? Write a summary of the conversation between the Bishop and the curious hermits.
4. Explain how Lu Xun ultimately landed up as an employee at XianHeng wine tavern.

UNIT - IV (Grammar and Writing Skills)**IV A. Change the voice of the following sentences.****(5x1=5)**

1. They are completing the assignments.
2. Who broke the glass?
3. They have published all the details of the invention.
4. He teaches us grammar.
5. We saw the eclipse.

B. Fill in the blanks with the correct form of the verb given in brackets.**(5x1=5)**

1. None of the jewellery _____ (is/are) missing.
2. Neither John nor you _____ (was/were) present.
3. The students of this class _____ (come/comes) on time.
4. A bouquet of red flowers _____ (lend/lends) colour to the room.
5. The style and colour of these pants _____ (is/are) best for you.

C. Frame 'WH' questions to get the underlined words as an answer.ST ALOYSIUS COLLEGE LIBRARY
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1. They sent a letter.
2. My company begins its fiscal year on July 1.
3. Swimming is the sport mentioned in the list.
4. I borrowed money from Nikhi.
5. They lose focus every two minutes.

D. Convert the following sentences into indirect speech. (5x1=5)

1. She said, "I have baked a cake."
2. Ann said to me, "Have you ever been to the United States?"
3. Melson said, "I will finish my work in two days."
4. The leader said, "Have faith on yourself."
5. Maria said, "Sing with me".

(2022 Batch onwards)

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Reg. No.

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St Aloysius College (Autonomous) Mangaluru**B.A./B.Com./B.B.A./B.Sc./B.C.A. - Semester IV - Degree Examination
May - 2024****HINDI**

Time: 2½ hrs.

Max Marks: 60

I अ) किसी एक प्रश्न का उत्तर लिखिए :**(1x5=5)**

1. पत्रकारिता के अर्थ और सिद्धांत को स्पष्ट कीजिए।
2. प्रेस के साथ संपर्क तथा उसके (प्रेस के) माध्यम से सरकारी मामलों पर मत-विचारों का प्रसार हेतु अधीनस्थ कार्यालयों के लिए कार्यालय ज्ञापन का नमूना पेश कीजिए।

आ) किसी एक प्रश्न का उत्तर लिखिए :**(1x5=5)**

1. आलेखन की परिभाषा लिख कर भेदों को समझाइए।
2. कंप्यूटर में हिंदी भाषा के महत्व को स्पष्ट कीजिए।

II एक वाक्य में उत्तर लिखिए :**(10x1=10)**

1. मिश्रित चिट्ठा किसे कहते हैं?
2. सरकारी आदेशों का प्रामाणीकरण कब होता है?
3. आलेखन की भाषा कैसी होनी चाहिए?
4. युद्ध के क्षेत्र में अस्त्र शस्त्रों को चलाने में किसकी सहायता ली जा रही है?
5. किसने सबसे पहले प्रेस को सामाजिक उद्देश्य से जोड़ा?
6. हिंदी साहित्य की दैनिक पत्रिका कौन-सी है?
7. चिट्ठा लिखने वाले को क्या कहते हैं?
8. पत्रकारिता एक _____ है।
9. किसने मानव जीवन को सरल व सुखद बना दिया है?
10. Spell checker को हिंदी में क्या कहते हैं?

III एक वाक्य में उत्तर लिखिए :**(10x1=10)**

1. कितनी भाषाओं को भारत सरकार ने स्वीकृति दी है?
2. रहीम के अनुसार वे मनुष्य जो माँगने के लिए जाते हैं, वे किसके समान हैं?
3. क्रोध कैसे उत्पन्न होता है?
4. रहीम के अनुसार राजा बलि को परास्त करने के लिए भगवान विष्णु ने कौन-सा रूप धारण किया था?
5. हर एक स्त्री क्या चाहती है?
6. रहीम के अनुसार विपत्ति से हमें क्या पता चलता है?
7. 'यह देश एक है' निबंध के निबंधकार कौन हैं?

Contd...2

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8. महाराजा युधिष्ठिर के राजसूय यज्ञ में किस भाग के राजाओं ने भाग लिया था?
9. राजा के नेत्र रूपी भौरे क्या पीकर आनंदित हो रहे थे?
10. कबीरदास के अनुसार मनुष्य किसका भजन नहीं कर पाते?

IV अ) निम्नलिखित किसी एक पद्यांश का संदर्भ सहित व्याख्या कीजिए : (1x5=5)

1. "काँई म्हारो जणम बारम्बार ॥ टेक ॥
पूरबला काँई पुत्र खुट्याँ माणसा अवतार।
बढ़या छिण-छिण घट्या पल पल जातणा कुछ बार॥
बिरछरां जो पात टूटया, लाया णा फिर डार।
भो समुन्द अपार देखां, अगम झौंखी धार॥
लाल गिरधर, तरण तारण वेग करस्यो पार।
दासी मीरां लाल गिरधर, जीवणा दिन च्यार॥"

2. "करगस सम दुर्जन वचन रहे संत जन टारि।
बिजुरी परे समुद्र में, कहा सकेगी जारी॥"

आ) निम्नलिखित किसी एक अवतरण का संदर्भ सहित व्याख्या कीजिए : (1x5=5)

1. "तुमने मेरे साथ यह किया, वह किया। अब तक तो सहता आया, अब नहीं सह सकता।" इसके आगे बढ़कर जब कोई दाँत पीसता और गरजता हुआ यह कहने लगे कि "मैं तुम्हें धूल में मिला दूँगा, तुम्हारा घर खोदकर फेंक दूँगा।" तब क्रोध का पूर्ण स्वरूप समझना चाहिए।"
2. "चीन भारत में चक्रवर्ती सम्राट कहलाने के लिए यहाँ के राजे अक्सर, बड़ी-बड़ी लडाइयाँ लडा करते थे। मगर, इन लडाइयों के भीतर सिर्फ यही भाव नहीं था कि राजा अपना प्रभुत्व फ़ैलाना चाहते थे।"

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V किसी एक प्रश्न का उत्तर लिखिए : (1x10=10)

1. कबीर के 'दोहों' का भावार्थ स्पष्ट कीजिए।
2. मीराबाई की भक्ति और कृष्ण प्रेम पर प्रकाश डालिए।

VI किसी एक प्रश्न का उत्तर लिखिए : (1x10=10)

1. क्रोध शांति भंग करने वाला मनोविकार' को पठित निबंध के आधार पर स्पष्ट कीजिए ।
2. भारत में प्रचलित विभिन्न भाषाओं में छिपे एकता पर प्रकाश डालिए ।

(2021 batch onwards)

Reg. No.

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G 537 LA2.4

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ), ಮಂಗಳೂರು
ಬಿ.ಎಸ್ಸಿ. - ನಾಲ್ಕನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ
MAY - 2024

ಕನ್ನಡ ಭಾಷಾಪತ್ರಿಕೆ - 4

ಗರಿಷ್ಠ ಅಂಕ: 60

ಸಮಯ : 2½ ಘಂಟೆ

7 X 3 = 21

- I** ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ
1. ಐಸಂ ಬ್ಯಾರ್ಡಿಯ ದಿಟ್ಟ ನಿರ್ಧಾರ 'ತಾಯ್ತನ' ಕಥೆಯಲ್ಲಿ ಹೇಗೆ ಮೂಡಿ ಬಂದಿದೆ? ವಿವರಿಸಿ
 2. ಬಹುಸಂಖ್ಯಾತರಿರುವ ನೆಲದಲ್ಲಿ ಅಲ್ಪಸಂಖ್ಯಾತರ ತೊಳಲಾಟವು 'ನಿಮ್ಮೊಡನಿದ್ದು ನಿಮ್ಮಂತಾಗದೆ' ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ವ್ಯಕ್ತವಾಗಿದೆ? ಚರ್ಚಿಸಿ
 3. ಭರತನು ಬಾಹುಬಲಿಯನ್ನು ಅಹಿಂಸೆಯಿಂದಲೇ ಗೆದ್ದ ಬಗೆಯನ್ನು ಕಾವ್ಯಭಾಗದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ನಿರೂಪಿಸಿ
 4. ಕೃಷ್ಣ-ಕರ್ಣರ ನಡುವೆ ನಡೆದ ಸಂಭಾಷಣೆಯ ಸ್ವಾರಸ್ಯವನ್ನು ವಿವರಿಸಿ.
 5. ಕೃಷಿ-ಖುಷಿ-ಖುಷಿ ಪ್ರಬಂಧದಲ್ಲಿ ಯಶಸ್ವಿ ಕೃಷಿಕನಾದ ಕೃಷ್ಣಪ್ಪನ ರೋಚಕ ಕಥೆಯನ್ನು ವಿವರಿಸಿ
 6. ಅಂಬೇಡ್ಕರರು ಸ್ವಾತಂತ್ರ್ಯ ಚಳುವಳಿಯಲ್ಲಿ ಸಕ್ರಿಯರಾಗಿ ಭಾಗವಹಿಸದಿರಲು ಕಾರಣವೇನು? ವಿವರಿಸಿ

3X 3 = 09

- II** ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ
7. 'ಏನೀ ಅದ್ಭುತವೇ!' ಕವನದ ನ್ಯಾಯಕಿ ಜೀವನದ ಬೇರೆ ಬೇರೆ ಕಾಲಘಟ್ಟದಲ್ಲಿ ಎದುರಿಸಿದ ಅನಿರೀಕ್ಷಿತ ಪ್ರಸಂಗಗಳಾವುವು?
 8. ಅಂಬೇಡ್ಕರ್‌ರವರು ಪತ್ರಿಕಾ ರಂಗ ಪ್ರವೇಶಿಸಲು ಕಾರಣವೇನು?
 9. 'ಶಿವಪೂಜೆಯಲ್ಲಿ ಕರಡಿ ಬಿಟ್ಟರು' ಇದರ ನಿಜವಾದ ಅರ್ಥವೇನು?
 10. ದಯಾನಂದರು ಹಿತ್ತಲಿನಲ್ಲಿ ಮಾಡಿರುವ ಕೃಷಿಯ ಖುಷಿಯನ್ನು ಹಂಚಿಕೊಂಡ ಬಗೆಯನ್ನು ಪರಿಚಯಿಸಿ
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 11. ಬದುಕಿನ ಅನಿರೀಕ್ಷಿತ ದೃಷ್ಟಾಂತಗಳನ್ನು ಸುಜಾತ ಹೆಗಡೆ 'ನಾಕೆ' ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ಪ್ರಸ್ತುತಪಡಿಸಿದ್ದಾರೆ?
 12. ಪಾಚಕ್ಕನ ಕಣ್ಣು ಮುಟ್ಟಿಸುವ ಶಕ್ತಿಯೇ ಅವಳ ನೋವಿಗೂ ಹೇಗೆ ಕಾರಣವಾಗುತ್ತದೆ?

4 X 1 = 04

III ಒಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಪದ್ಯದ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ

13. ಕಣ್ಣು ಕಟ್ಟಿ ರಾಜ್ಯವಳಿದು ಕಣ್ಣಿನಿರ ಧಾರೆ ಹರಿದು
ಬದುಕು ಬೆಂಕಿಯಾಟದಲ್ಲಿ ಕನಸುಗಳ ಕತೆಯೆ ಉರಿದು
ಹಡೆದ ಒಡಲು ಬಿಸಿಯ ಕೆಂಡ ಭಾಗ್ಯವೆಲ್ಲಿ ಬಾಳಿಗೆ
ಅರಸಿ ಕಣ್ಣು ಕಾಡಿಗೆ, ಮುಡಿಯ ಸುಖವೆ ಬಾಡಿಗೆ
14. ಮರುಳು ಮಾಧವ ಮಹಿಯ ರಾಜ್ಯದ
ಸಿರಿಗೆ ಸೋಲುವನಲ್ಲ ಕೌಂತೇ
ಯರು ಸುಯೋಧನರನಗೆ ಬೆಸಕ್ಕೈವಲ್ಲಿ ಮನವಿಲ್ಲ
ಹೊರದ ದಾತಾರಂಗ ಹೆಗೆವರ
ಶಿರವನರಿದೊಪ್ಪಿಸುವೆನೆಂಬೀ
ಭರದೊಳಿದೆನು ಕೌರವೇಂದ್ರನ ಕೊಂದೆ ನೀನೆಂದ

Contd...2

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2X2= 04

IV ಎರಡು ಪದ್ಯ ಸಾಲುಗಳ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸಾಲಿನ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ

15. ಸುತ್ತುವರಿದ ಭೀಕರತೆಯಲಿ ಹೊಳಹ ಹುಡುಕಿರಲು
16. ಕಾಲಜ್ಞಾನಿಗಳು ಹೇಳುವರು ಮತ್ತೆ ನಿನ್ನಾಗಮನವಿದೆಯೆಂದು
17. ಪಾಪಿ ನಾನೆನ್ನಣ್ಣಗಿದಿರಾಗಿ ಕುಲಕೆ ಲೋಕಾಪವಾದವ ತಂದೆನಕಟ
18. ಈ ನಗರವೋ ಒಂದು ಚಕ್ರವ್ಯೂಹ

3X2= 06

V ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

19. 'ಮನ್ವಂತರದ ಮಾನುಷಿ' ಕವಯಿತ್ರಿ ವ್ಯಕ್ತಪಡಿಸಿದ ಜೀವನಪ್ರೀತಿ, ಧೈರ್ಯ ಮತ್ತು ಸ್ಪೂರ್ತಿ
20. ಕರ್ಣನ ಜನ್ಮರಹಸ್ಯ
21. ಭರತ-ಬಾಹುಬಲಿಯರ ನಡುವೆ ನಡೆದ ಯುದ್ಧ
22. 'ನಿಮ್ಮೊಡನಿದ್ದು ನಿಮ್ಮಂತಾಗದೆ' ಕವಿತೆಯಲ್ಲಿ ವ್ಯಕ್ತವಾದ ಅಲ್ಪಸಂಖ್ಯಾತರ ಅಸ್ತಿತ್ವದ ಸಂಕೀರ್ಣ ಪ್ರಶ್ನೆ

3X2= 06

ಆ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

23. ಐಸಂ ಬ್ಯಾರ್ಡ್
24. ಇಂಡಿಯಾಕ್ಕೆ ವ್ಯಾಪಾರಕ್ಕಾಗಿ ಬಂದ ಆಂಗ್ಲರು ಸಾರ್ವಭೌಮರಾಗಿ ತಳವೂರಲು ಕಾರಣ
25. ಕೆ. ಎ. ದಯಾನಂದ
26. ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ

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VI ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ

1X10= 10

27. ತೇಜಸ್ವಿಯವರು 'ಅಣ್ಣನ ನೆನಪು' ಕೃತಿಯನ್ನು ಯಾರ ಕುರಿತು ಬರೆದಿದ್ದಾರೆ?
28. ಸಿಪಾಯಿ ದಂಗೆ ಯಾವ ಇಸವಿಯಲ್ಲಿ ನಡೆಯಿತು?
29. ಕೆ. ಶ್ರೀಪತಿ ಹಳಗುಂದ ಅವರ ಯಾವ ಕೃತಿಗೆ ಗದಗಿನ ಕಲಾ ವಿಕಾಸ ಪ್ರಶಸ್ತಿ ಲಭಿಸಿದೆ?
30. ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲಾಧಿಕಾರಿಯಾಗಿದ್ದು 'ಕೃಷಿ-ಖುಷಿ-ಖುಷಿ' ಲೇಖನವನ್ನು ಬರೆದವರು ಯಾರು?
31. 'ಏನೀ ಅದ್ಭುತವೇ!' ಕವಿತೆಯನ್ನು ಯಾವ ಕವನ ಸಂಕಲನದಿಂದ ಆರಿಸಿಕೊಳ್ಳಲಾಗಿದೆ?
32. ದಕ್ಷಿಣಕನ್ನಡ ಜಿಲ್ಲೆಯ 'ಜೈನಕಾಶಿ'ಯೆಂದು ಖ್ಯಾತಿ ಹೊಂದಿದ ಊರು ಯಾವುದು?
33. 'ನಿತ್ಯೋತ್ಸವ'ದ ಕವಿ ಯಾರು?
34. 'ಪಾಚಕ್ಕನ ಗಂಡಾಂತರ' ಪ್ರಬಂಧವನ್ನು ಯಾವ ಸಂಕಲನದಿಂದ ಆಯ್ದುಕೊಳ್ಳಲಾಗಿದೆ?
35. 'ತಾಯ್ನ' ಕಥೆಯನ್ನು ಯಾವ ಕಥಾಸಂಕಲನದಿಂದ ಆರಿಸಿಕೊಳ್ಳಲಾಗಿದೆ?
36. 'ಕುಮಾರವ್ಯಾಸ' ಕಾವ್ಯನಾಮದ ಕವಿಯ ಹೆಸರೇನು?

(2021 Batch Onwards)

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester IV – Degree Examination

May - 2024

SANSKRIT

Time: 2½ hrs.

Max Marks: 60

1 द्वौ अनुवादं कृत्वा विवृणुत ।

2 x 5 = 10

- 1.1 त्रातोऽयं शङ्खचूडः पतंगपतिमुखात् वैनतेयो विनीतः
तेन प्राग्भक्षिता ये विषधरपतयो जीवितास्तेऽपि सर्वे ।
मत् प्राणाप्त्या विमुक्ता न गुरुभिरसवः चक्रवर्तित्वमाप्तम्
साक्षात् त्वं देवि दृष्टा प्रियमपरमतः किं पुनः प्रार्थ्यते यत् ॥
- 1.2 युद्धप्रियाश्च शरणागतवत्सलाश्च दीनेषु पक्षपतिताः कृतसाहसाश्च ।
एवंविधप्रतिभयाकृतिकुचेष्टितानां दण्डं यथार्थमिह धारयितुं समर्थाः ॥
- 1.3 भुक्तानि यौवनसुखानि यशोऽवकीर्णं राज्ये स्थितं स्थिरधिया चरितं तपोऽपि ।
श्लाघ्यः सुतः सुसद्गुणान्वयजा स्नुषेयं चिन्त्यो मया ननु कृतार्थतयाऽद्य मृत्युः ॥
- 1.4 भ्रातृणां मम सर्वेषां कोऽयं भो गुणतस्करः ।
दृष्ट्वैतद् बालशौण्डीर्यं सौभद्रस्य स्मराम्यहम् ॥

2 त्रीन् सप्रसङ्गं विवृणुत ।

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3 x 4 = 12

- 2.1 कथं न पापः शतधाव्रजामि ?
- 2.2 बलाबलं परिज्ञाय पुत्रमेकं विसर्जय ।
- 2.3 भोः सुयोधन, वर्धते ते शत्रुपक्षः ।
- 2.4 मर्षयतु भवान् मर्षयतु । अयं मे प्रकृतिदोषः ।
- 2.5 नायं नागः, परित्यज एनम्, माम् भक्षय ।

3 त्रीन् कर्णाटकभाषया आङ्ग्लभाषया वा प्रबन्धात्मकमुत्तरं लिखत ।

3 x 5 = 15

- 3.1 मध्यमव्यायोगः इति नाटकशीर्षिकायाः सार्धक्यं निरूपयत ।
- 3.2 जीमूतबाहनस्य त्यागकार्येण सम्भूतान् परिणामान् विवृणुत ।
- 3.3 नागानन्दम्-नाटकस्य पञ्चमाङ्कस्य विमर्शं लिखत ।
- 3.4 भासमहाकवेः विषये प्रबन्धं लिखत ।
- 3.5 संस्कृतनाटकानां उगमः- अस्मिन् विचारे प्रबन्धं लिखत ।

4 एकं संस्कृतेन टिप्पणीं लिखत ।

1 x 5 = 05

- 4.1 पाण्डवाः ।
- 4.2 श्रीहर्षदेवः ।
- 4.3 महाभारतम् ।

Contd...2

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Page No.2

- 5 द्वौ कर्णाटकभाषया आङ्ग्लभाषया वा टिप्पणीं लिखत । 2 x 4 = 08
- 5.1 भरतवाक्यम् ।
- 5.2 वृद्धब्राह्मणः ।
- 5.3 घटोत्कचः ।
- 6 एकम् अलङ्कारं सलक्षणं सोदाहरणं विवृणुत । 1 x 5 = 05
- 6.1 उपमा ।
- 6.2 श्लेषः ।
- 6.3 रूपकः ।
- 7 एकं वृत्तं सलक्षणं सोदाहरणं विवृणुत । 1 x 5 = 05
- 7.1 अनुष्टुप् ।
- 7.2 इन्द्रवज्रा ।
- 7.3 वसन्ततिलका ।

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St Aloysius College (Autonomous)
Mangaluru

B.A. /B.Sc./B.Com /BBA/BCA - Semester IV - Degree Examination
May - 2024

KONKANI

Time: 2 ½ Hours

Max. Marks: 60

ಕವನಾಂ - ಯುನಿಟ್ ೧

I ಖಂಚಾಯ್ ಎಕಾ ಕವನಾಚೊ ಸಾರಾಂಶ್ ಬರಯಾ

(5×1=5)

೧. ಜೆನ್ನಾ ಕನೇಕ್ ಜಾತಲೊಂ
ಹಾಂವ್ ಮ್ಹಜೆ ಲಾಗಿ
ತೆನ್ನಾ ಮನ್ ಭರುನ್ ಉಲೊವ್ನ್ ಘೆತಲೊಂ.
೨. ಮ್ಹಜೆ ಮತಿಂತ್ ಕೆದಾಳಾಗೀ ಸರ್‌ಲ್ಲಾ
ಪಪ್ಪಕ್ ಸಯ್ರ್ಯಾ ಧಯ್ರ್ಯಾಂನಿ
ಕಾಲ್ ಮಾತಿಯೆಕ್ ಪಾಯ್ಲಾಂ.

II. ಎಕಾ ಪಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ

(1×5=5)

೧. ನೈಫ್ ರಸ್ತೊ ಖಿಯ್ಸರ್ ಆಸಾ?
೨. ನೈಫ್ ರಸ್ತಾರ್ ರಾತ್ಲೆಂ ವೆಳಿಂ ಕಿತೆಂ ಕಾಮಾಂ ಚಲ್ತಾತ್?
೩. ನಂದಿನಿ ಕೊಣಾಚೆ ಲಿಖ್ಣೆ ನಾಂವ್ ಜಾವ್ನಾಸಾ?
೪. ಕಿತೆಂ ಸಾವೊಂ ಬರಿ ಪಾಟ್ಲಾವ್ ಕರ್ತಾ?
೫. ಫ್ರಾನ್ಸಿಸ್ ಫೆರ್ನಾಂಡಿಸಾನ್ ಕಿತೆಂ ನಾಟಕ್ ಬರಯ್ಲಾತ್?

III ಖಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ

(5×1=5)

೧. ಧುಂವ್ರಾಕ್ ಆನಿಂ ದುಬ್ಹಿಕಾಯೆಕ್ ಆಸ್ಚೊ ಸಂಬಂಧ್ ಕಸೊ ವ್ಯಕ್ತ್ ಜಾಲಾಂ?
೨. ಶಾಯರಿ ಮುಖಾಂತ್ ಕವಿ ಕಿತೆಂ ಸಂದೇಶ್ ದಿತಾ?

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ಗದ್ಯ ಭಾಗ್ ಯುನಿಟ್ -೨

I ಎಕಾ ಪಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ

(1×5=5)

೧. ಭಾವ್.ಮೊಸ್ತೆನಿನ್ ಸೊಡಯಿಲ್ಲಾ ಪಿಂತುರಾ ಪಯ್ಲಿಂ ಖಂಚಾಯ್ ಎಕಾ ಇಗರ್ಜೆಚೆ ಉಲ್ಲೇಖ್ ಕರಾ.
೨. ಖಂಚಾ ವೊರ್ಸಾ ಭಾವ್.ಮೊಸ್ತೆನಿ ಆಂತಲೊಂ?
೩. ವೊಕ್ಲೆ - ನೊವ್ರಾಚೆ ನ್ಹೆಸಣ್ ಉಲ್ಲೇಖ್ ಕರಾ.
೪. ಘರಾನಿಂ ದಾದ್ಲ್ಯಾಚೆ ಕೇಸ್ ಕಾಡ್ತಲ್ಯಾಕ್ ಕಿತೆಂ ಮ್ಹಣ್ತಾಲೆಂ?
೫. 'ಆವ್ ಏರ್' ಸಬ್ದಾಚೊ ಅರ್ಥ್ ಕಿತೆಂ?

II. ಖಂಚಾಯ್ ದೋನ್ ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ

(5×2=10)

೧. ಭಾವ್.ಆಂಟಿನಿ ಮೊಸ್ತೆನಿಚ್ಯಾ ಪಿಂತುರಾಂ ವಿಶಿಂ ಕಳಯಾ.
೨. ಖಂಚೊಯ್ ಪಾಂಚ್ ವೊವಿಯೊ ಬರಯಾ.
೩. ಕೊಂಕ್ಣಿ ಸಂಸ್ಕೃತೆಚ್ಯಾ ಪರ್ತಪಣಾಂ ವಿಶಿಂ ಕಳಯಾ.

Contd...2

ಯುನಿಟ್ -೨ ಕಾದಂಬರಿ

I ಏಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ

(5×1=5)

೧. ಕೋಣ್ ಆಂಜೆಲಾಕ್ ಉಚಾಂಬಳ್ ಕೀಡ್ ಮ್ಹಣ್ ಅಪಯ್ತಾ?
೨. ಕೋಣ್ ಆಂಜೆಲಾಚ್ಯಾ ಮೊಗಾರ್ ಪಡ್ತಾ?
೩. ಕೋಣ್ ಭಾವಾಡ್ತಾ ಖಾತಿರ್ ಜೀವ್ ದೀಂವ್ಕ್ ತಯಾರ್?
೪. ಕೋಣ್ ದೇವ್ ಭಿರಾಂತಿಚಿ ಸ್ತ್ರೀ ಜಾವ್ನಾಸಾ?
೫. ಮಹಾಭಾರತಚೊ ಶಕುನಿ ಕಾದಂಬರಿಂತ್ ಕೋಣ್?

II ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.

(5×2=10)

೧. ಆಂಜೆಲ್ ಕಾದಂಬರಿ ಪ್ರಸ್ತುತ್ ಪರಿಗತೆಂತ್ ಸಮಕಾಲೀನ್ ಮ್ಹಣ್ ಭೊಗ್ತಾ? ವಿವರಿಸಯಾ.
೨. ಆಂಜೆಲ್ ಕಾದಂಬರಿಂತ್ಲ್ಯಾ ಸೊರ್ಬಟಚ್ಯಾ ಪಾತ್ರಾಂ ವಿಶಿಂ ಚರ್ಚಾ ಕರಾ.

ಯುನಿಟ್ ೪ - ವ್ಯಾಕರಣ್

I ಏಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ

(5×1=5)

೧. ದೊಗಾಂಚೊ ನ್ಯಾಯ್ ತಿಸ್ರಾಕ್ ----- ಹಿಂ ಗಾದ್ ಪೂರ್ಣ್ ಕರಾ.
೨. ಭಾಶಾಂತರ್ಕಾರಚಿ ಖಿಂಚಿಯ್ ಎಕ್ ಸಮಸ್ಯಾ ಉಲ್ಲೇಖ್ ಕರಾ.
೩. ಆವ್ಸೊರ್ ಸಬ್ದಾಕ್ ಕನ್ನಡಕ್ ಅನುವಾದ್ ಕರಾ.
೪. ಹುಮಿಣ್ಯೊ ಮತಿಕ್ ಕಿತೆಂ ದಿತಾತ್? ST ALOYSIUS COLLEGE LIBRARY
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೫. ಪೊವಿಯೊ ಕೆನ್ನಾ ಗಾಂವ್ಚ್ಯಾ ?

II ಖಂಚಾಯ್ ದೋನ್ ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ

(5×2=10)

೧. 'ಸಮಾಜೆಚ್ಯಾ ಉದಗರ್ತೆ ಖಾತಿರ್'ಯುವಜಣಾಂಚೊ ಪಾತ್ರ್' ಪ್ರಬಂಧ್ ಬರಯಾ.
೨. 'ಪಯ್ಲೆಂ ಆಯಿಲ್ಲಾ ಕಾನಾಂ ವರ್ನಿಂ ಮಾಗಿರ್ ಆಯಿಲ್ಲಿಂ ಶಿಂಗಾಂ ಜಬ್ಬೊರ್' ಗಾದ್ ವಿಸ್ತರಣ್ ಕರಾ.
೩. ಖಿಂಚೊಯ್ ಪಾಂಚ್ ಹುಮಿಣ್ಯೊ ಸೊಡಯಾ.

(2021 batch onwards)

Reg. No.

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**St Aloysius College (Autonomous)
Mangaluru**

B.A./B.Sc./B.Com./B.B.A./B.C.A. Semester IV – Degree Examination
May - 2024

**ADDITIONAL ENGLISH
World Literature - II**

Max Marks: 60

Time: 2½ hrs.

UNIT - I (SHORT STORIES)

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

1. What was the total cost of framing the picture as mentioned in the short story, 'The Gold Frame'?
2. The shift on emphasis throughout the story in 'Toasted English' is to encourage and guide to use English as _____.
 - a) A Bharat Brand of English
 - b) American Brand of English
 - c) World Brand of English
 - d) English used by Britishers
3. What did the thief say his name was when enquired by Mr. Anil?
4. _____ is defined as deliverance of sin.
5. The Bishop referred to himself as Christ's _____.

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B. Answer any THREE of the following in about 180-200 words each: (3x5=15)

1. What impression do you gather about Datta the frame maker, having read the story, 'The Gold Frame'?
2. How did Americans simplify the usage of English as mentioned in the short story, 'Toasted English'?
3. Write a note on the various characters sailing in the vessel and the purpose of their journey.
4. Give a brief character sketch of Anil highlighting his qualities.

UNIT - II (PLAY)

II. Answer any ONE of the following in about 180 words each: (1x10=10)

1. How do the characters in, *Dance Like A Man* live out their ambitions and dreams? Use examples from the play.
2. What is the significance of the title *Dance like a Man*? How does it relate to the theme of the play?

Contd...2

UNIT - III (NOVEL)

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

1. How does death become a theme in, *The Outsider*?
2. Critically evaluate the character of Meursault and his actions and motivations in, *The Outsider*.

UNIT - IV (GRAMMAR AND WRITING SKILLS)

IV A. Give suitable question tags for the following. (10x1=10)

1. We have plenty of work to do.
2. None of the food was tasty.
3. A few students came prepared for the examination.
4. We could scarcely follow his speech.
5. They followed the instructions.
6. He used to be a good basketball player.
7. They are painting the house.
8. Pass the salt.
9. Let's have some tea.
10. Everybody was present.

B. Write an argumentative essay on any ONE of the topics given below in about 250 words: (1x10=10)

1. Do you believe that elections should be decided by the popular vote?
2. Should everyone be entitled to free health care?

(2021 Batch onwards)

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**St. Aloysius College (Autonomous)
Mangaluru**

**B.A./B.Sc. /B.Com./B.B.A./B.C.A. - Semester IV – Degree Examination
May - 2024**

FRENCH

Time: 2½ hrs.

Max Marks: 60

I. Répondez aux 5 questions:

(5x2=10)

1. Où nous trouvons le tableau de Monalisa?
2. Écrivez une région connue pour le fromage français.
3. Quel est la salarie (SMIC) minimum en France?
4. Elaborez CDD
5. Qu'est-ce que beaucoup de salariés des enterprise craignent?
6. Écrivez deux noms de fromage français.

II. Répondez aux 4 questions en 9 ou 10 lignes

(4x5=20)

1. Résumez l'article question d'argent.
2. Enumérez et discutez le mode français.
3. Discutez le système d'assurance de la sécurité sociale en France.
4. Expliquez quel type de tâches ménagères vous faites souvent à la maison.
5. Pourquoi les français sont insatisfaite ?

III. Comparez

(5x1=5)

1. Rajasthan et Andhra Pradesh ont des fleuves (-)
2. Les femmes et les hommes travaillent (=)
3. Le fauteuil et la chaise (+ confortable)
4. Le train et l'avion (rapide -)
5. Sylvie court (-vite) Ronald

IV. Mettez les verbes au temps indiqué:

(5x1=5)

1. Nous _____ (placer- présent) les livres sur la table.
2. Prends des médicaments, vous ne _____(être- futur simple) plus malade.
3. Elles (travailler, future proche) dans un restaurant.
4. Elle _____ (installer - passé compose) à Lille il y a deux semaines.
5. Vous(aimer , future simple) la ville ou la campagne. ?

V. Répondez en utilisant les pronoms possessifs

(5x1=5)

1. Marie est-ce que c'est ta veste?
2. Elle s'occupe de ses affaires et vous vous occupez de....
3. Est-ce qu'il est sa fille? Oui elle est _____
4. Elle a perdu son portable. Tu peux le donner _____?
5. Tu as passé de bonnes vacances? J'ai dû annuler _____ à cause de la pluie.

Contd...2

VI. Complétez le texte avec les mots proposés: (5x1=5)
(populaire, utilisateurs, appliquent, photo, population)

Les nouvelles restrictions chinoises s' _____ uniquement sur les jeux en ligne, c'est-à-dire ceux qui se jouent sur Internet soit les plus nombreux ! Et elles visent notamment Honor of Kings, le jeu multijoueur le plus _____, qui compte plus de 100 millions d' _____ quotidiens, et parmi eux de nombreux enfants et adolescents. Tu te dis peut-être qu'il sera facile pour les jeunes de contourner les nouvelles interdictions? Détrompe-toi, car pour se connecter ils doivent désormais présenter leur _____ d'identité. Et dans ce pays où des technologies très sophistiquées surveillent près de la _____, il y a peu de chances d'échapper aux contrôles...

VII. Dialoguez sur le UN sujet suivant: (1x5=5)

1. Vous partez en vacances pour deux mois. Une amie vous demande si vous accepteriez de prêter votre appartement à un de ses cousins. Mais peut-on avoir confiance en lui?
2. Vous avez prêté votre appartement à un(e) ami(e). Quand vous rentrez, vous trouvez : un fauteuil cassé, la plante verte morte, etc. Vous demandez des explications. Votre ami(e) raconte et s'excuse.

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VIII. COMPREHENSION (5x1=5)

Le compostage urbain, un geste pour la planète. En France, la gestion des déchets représente un défi majeur. Chaque année, des tonnes de déchets organiques finissent dans les poubelles, alors qu'ils pourraient être valorisés par le biais du compostage. Heureusement, le compostage urbain connaît un développement croissant dans les villes françaises.

Le principe est simple : les habitants d'un quartier ou d'une résidence collectent leurs déchets organiques, tels que les épluchures de fruits et légumes, les coquilles d'œufs et le marc de café, dans des composteurs partagés. Ces déchets se décomposent naturellement grâce à l'action des micro-organismes, pour se transformer en compost, un engrais naturel riche en nutriments. Le compostage urbain présente de nombreux avantages. Tout d'abord, il permet de réduire la quantité de déchets envoyés en décharge, contribuant ainsi à la lutte contre la pollution et la saturation des sites d'enfouissement. De plus, le compost obtenu peut être utilisé pour fertiliser les jardins et les espaces verts, favorisant la croissance des plantes de manière écologique.

Cependant, le développement du compostage urbain fait face à certains défis. Il est important de sensibiliser les habitants au tri des déchets et aux bonnes pratiques de compostage. De plus, l'installation et la gestion des composteurs partagés nécessitent une organisation et une communication efficaces. Malgré ces défis, le compostage urbain représente une solution intéressante pour réduire l'impact environnemental de nos déchets. En encourageant la participation citoyenne et en adaptant les infrastructures urbaines, il est possible de faire du compostage urbain une pratique courante et bénéfique pour la planète.

Compréhension:

1. Quel est le principal problème évoqué dans le passage ?
2. Expliquez le fonctionnement du compostage urbain.
3. Quels sont les avantages du compostage urbain ?
4. Quels sont les défis liés au développement du compostage urbain ?
5. Quelle est l'importance du compostage urbain pour l'environnement ?

(2021 Batch onwards)

G 751 LA5.4

Reg. No.

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**St Aloysius College (Autonomous)
Mangaluru**

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

MAY-2024

MALAYALAM

Time: 2½ hrs.

Max Marks: 60

I. രണ്ടെണ്ണം വ്യാഖ്യാനിക്കുക (2x3=6)

1. വരിക നീപോയ് പഠിച്ചു മിടുകനായ്,
തരുവനപ്പോഴേക്കോമനെ, കഞ്ഞിത്താൻ
2. കെട്ടിമറക്കല്ലെൻ പാതിനെഞ്ചം
കെട്ടിമറക്കല്ലെയെൻറ കയ്യും
ഈകൈയ്യാൽകുഞ്ഞിനെയേറ്റുവാങ്ങി
ഈമുലയുട്ടാൻ അനുവദിക്കൂ
3. മകനേ,നീ നാട്ടു പൊരനാകാതൊരു
മനുഷ്യനായ് തന്നെ വളരൂ..

II. രണ്ടെണ്ണത്തിന് കുറിപ്പു തയ്യാറാക്കുക (2x3=6)

4. മുണ്ടശ്ശേരിയുടെജീവിതത്തിൽഏറെ സ്വാധീനിച്ച അധ്യാപകരെക്കുറിച്ചുള്ള ഓർമ്മകളെന്തൊക്കെ ?
5. വണക്കമാസം
6. സാഹിത്യലോകത്തിലേക്ക് കടന്നുവരാൻ മുണ്ടശ്ശേരിക്കു പ്രചോദനമായിത്തീർന്നതെന്തൊക്കെ?

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III. ഒന്നരപ്പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക (രണ്ടെണ്ണത്തിന്) (2x7=14)

7. ശിഷ്യനായ ഗുരു എന്ന കവിതയിൽ ഗുരു തൻറ ഗതകാലസ്മരണകളിലേക്ക് പോകാനിടയായ സാഹചര്യം വിവരിക്കുക
8. മകനോട് എന്ന കവിതയിൽ അച്ഛൻ മകനോട് പറയുന്ന കാര്യങ്ങൾ എന്തൊക്കെ?
9. മാതൃത്വത്തിൻറെ പൂർണ്ണതയാണ് "അമ്മ"യിലൂടെ കവി നമ്മുടെ മുന്നിലെത്തിക്കുന്നത്- സമർത്ഥിക്കുക

IV. ഒന്നരപ്പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക (രണ്ടെണ്ണത്തിന്) (2x7=14)

10. മുണ്ടശ്ശേരി ഓർത്തെടുക്കുന്ന തൻറെ ബാല്യകാലസ്മരണകൾ എന്തൊക്കെ?
11. കൊച്ചി രാഷ്ട്രീയത്തിലെ ഒരു വഴിത്തിരിവായിരുന്നു തൃശ്ശൂർലഹള എന്ന് പറയുന്നതെന്തുകൊണ്ട്?
12. അന്നത്തെ സാമൂഹിക സാംസ്കാരിക ജീവിതത്തിൽ ജാതിയും സമുദായവും വല്ലാത്തൊരു ശിഥിലീകരണ ശക്തിയായിരുന്നു എന്നു ജോസഫ് മുണ്ടശ്ശേരി സമർത്ഥിക്കുന്നതെങ്ങിനെ?

V. രണ്ട്പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക (ഒരേണ്ണത്തിന്) (1x10=10)

13. സി.എൻ ശ്രീകണ്ഠൻനായരുടെ "സാകേതം" ത്തിൽ വിധിക്കു കീഴടങ്ങേണ്ടി വരുന്ന ഒരു ദുരന്തകഥാപാത്രമായിട്ടാണ് ദശരഥമഹാരാജാവിനെ അവതരിപ്പിച്ചിരിക്കുന്നത്-സമർത്ഥിക്കുക
14. സി.എൻ ശ്രീകണ്ഠൻനായരുടെ സാകേതം എന്ന നാടകത്തിന് ഒരാസ്വാദനം തയ്യാറാക്കുക

VI. രണ്ട്പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക (ഒരേണ്ണത്തിന്) (1x10=10)

15. ആരോഗ്യവും ജീവിതശൈലിയും.
16. സംസ്കാരവും വിദ്യാഭ്യാസവും
17. വായന പുതുമുഖത്തിൽ
