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**PHYSICS**

**Waves and Optics**

Time: 2½ hrs.

Max Marks: 60

**SECTION –A**

Answer any **FOUR** of the following.

(4x2=8)

1. a) What are longitudinal and transverse waves? Explain.
- b) State the principle of superposition of waves with an example.
- c) How is a standing wave formed on a stretched string, and what are the conditions necessary for its formation?
- d) How do harmonics or overtones relate to the different modes of vibration in a standing wave on a string?
- e) Name the theory that can explain
  - i) The experimental results of photo electric effect
  - ii) Interference of light
- f) What is a retarder? Where are they used?

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**SECTION – B**

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

(4x10=40)

**UNIT-I**

- 2.a) Derive the general differential equation of the wave motion. (6)
- b) Deduce Newton's formula for velocity of sound in air. (4)
- 3.a) Explain and illustrate by means of a neat diagram the phenomenon of beats. (6)
- b) Obtain an expression for a plane progressive wave. (4)

**UNIT-II**

- 4.a) Derive an expression for the velocity of transverse waves in a stretched string. (6)
- b) Show that the frequencies of vibrations of a rod clamped at the center will have only odd harmonics. (4)
- 5.a) What is the Helmholtz resonator? Explain how does it work in terms of acoustic resonance? (6)
- b) What is the fundamental principle behind the production of sound waves in air columns? Explain. (4)

**UNIT-III**

- 6.a) Explain the phenomena of Interference by a thin film with two non-parallel reflecting surfaces and derive the expression for the fringe width. (6)
- b) What are coherent sources? Explain the methods of realizing coherent sources with examples. (4)

Contd...2

- 7.a) Discuss Young's double slit experimental setup and derive the expression for fringe width. How does the fringe width vary with
- slit separation
  - distance between the slit and screen
- (6)
- b) State Huygens principle for the propagation of light. Which are the phenomenon that could be explained using Huygens wave theory of light? (4)

#### UNIT-IV

- 8.a) When do you say that light is circularly polarized? Discuss the method of generating and detecting circularly polarized light. (6)
- b) What is double refraction? Distinguish between
- Positive and negative crystals
  - Isotropic and anisotropic crystals.
- (4)
- 9.a) What is a diffraction of light? Discuss the Fraunhofer diffraction at a single slit with a diagram and state conditions for maxima and minima. Represent the variation of intensity with distance. (6)
- b) What is a zone plate? What are differences between a zone plate and a convex lens? (4)

#### SECTION -C

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

10. A wave travelling along a string is described by  $Y(x, t) = 20\sin(3600t - 10x)$ . Find (a) amplitude (b) wavelength (c) frequency of the wave.
11. A uniform aluminum wire of length 1.5 m has a diameter of 2.5 mm. If transverse waves propagate through it with a velocity of 450 m/s, calculate the tension to which the wire is subjected and also the frequency of the note emitted. Given the density of aluminum =  $2700 \text{ kg/m}^3$ .
12. A plane diffraction grating has 6000 lines/cm. It is used to obtain the spectrum from sodium lamp in second order. Calculate the angular separation between two sodium lines corresponding to wavelengths 589 nm and 589.6nm.
13. In Newtons rings experiment the diameter of the 15<sup>th</sup> ring was found to be 0.59 cm and that of the 5<sup>th</sup> ring was 0.336 cm. If the radius of the plano convex lens is 1m, calculate
- wavelength of light used
  - radius of 25<sup>th</sup> ring.

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**St Aloysius College (Autonomous)**

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**B.Sc. Semester III – Degree Examination**

**November/December - 2023**

**CHEMISTRY – III**

**ANALYTICAL AND ORGANIC CHEMISTRY II**

Time: 2½ hrs.

Max Marks: 60

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

2. Write equations and diagrams wherever necessary.

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

**PART - A**

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

1. a) Name the type of samples that can be used in nephelometry.
- b) State the relationship between wavelength and wavenumber.
- c) What is continuous solvent extraction?
- d) State Nernst distribution law.
- e) What are the reagents used for Friedel Craft's acylation of naphthalene.
- f) Define nitrenes.
- g) Draw the energy level diagram for the conformation analysis of cyclohexane.
- h) What is optical activity?

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**PART - B**

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

2. (i) Write a note on flame photometry. Mention two fuel-oxidant pair used.
- (ii) Find out the molar absorptivity of  $1 \times 10^{-4}$  M solution with an absorbance of 0.20, when the path length is 2.5 cm.
- (iii) Evaluate the adsorbents used in column chromatography.
- (iv) Distinguish between cation exchange resin and anion exchange resin.
- (v) Explain the application of nephelometry in the determination of phosphate.
- (vi) Describe the role of peracids in the Bayer-Villiger rearrangement. How do they participate in the reaction?
- (vii) Write the Beckman rearrangement reaction for the determination of configuration of ketoximes.
- (viii) Write the Fischer projection formula for D & L tartaric acid.
- (ix) Give the reaction in which aldehydes are converted to cinnamic acid by treating with active methylene group.
- (x) Explain why the determination of reaction kinetics is essential for understanding reaction mechanisms.

**Contd...2**

## PART - C

Answer any **SEVEN** of the following questions.

(4×7=28)

3. With a neat labelled diagram explain the instrumentation of single beam spectrophotometer.
4. Explain paper chromatography with example.
5. With the help of a neat labelled diagram explain the basic principle of TLC.
6. Explain the separation of lanthanides based on ion exchange chromatography.
7. Explain why tertiary free radical is stable compared to primary free radical.
8. How to determine configuration of geometrical isomerism using chemical method and dipole moment?
9. Give the mechanism of Haworth synthesis of naphthalene.
10. Explain Walden inversion with suitable example.
11. Define enantiomers and explain why they are considered optical isomers.

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## ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU

## B.Sc THIRD SEMESTER DEGREE EXAMINATION

November / December - 2023

## MATHEMATICS - III

## Ordinary Differential Equations and Real Analysis – I

Time : 2 ½ Hours

Max. Marks : 60

PART - AAnswer any SIX of the following .

(6×2=12)

1. Solve:  $xy^2 \frac{dy}{dx} = 1 - x^2 + y^2 - x^2y^2$ .
2. Verify whether the given function  $f(x, y) = x \sin\left(\frac{x}{y}\right) + y(\log x - \log y)$  is homogenous.
3. Find the particular integral of  $(D^2 + 36)y = \cos 6x$ .
4. Find the particular integral of  $(D^3 - D^2 - D + 1)y = 1 + x$ .
5. Graphically represent the sequence  $\left\{\frac{n}{3n+2}\right\}$ .
6. Check if the sequence  $\left\{\frac{2n-1}{4n-1}\right\}$  is increasing or decreasing.
7. Check if the series  $\sum_{n=1}^{\infty} (-1)^{n+1} \frac{1}{4n^2+9}$  is convergent or divergent.
8. Define an absolutely convergent series.

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(2×6=12)

1. Solve:  $y(4x + y)dx - 2(x^2 - y)dy = 0$ .
2. Solve:  $y' = y - xy^3 e^{-2x}$ .
3. Solve:  $2(y - 4x^2)dx + xdy = 0$ .

UNIT - IIAnswer any TWO of the following .

(2×6=12)

1. Solve:  $(D^2 - 2D + 2)y = e^x \cos x$ .
2. Solve:  $(D^3 - 3D^2 - 3D + 9)y = 12e^{10x}$ .
3. Solve:  $x^3 \frac{d^3y}{dx^3} - 4x^2 \frac{d^2y}{dx^2} + 5x \frac{dy}{dx} - 2y = x^3$ .

Contd...2

### UNIT – III

Answer any **TWO** of the following .

**(2x6=12)**

1. State and prove Integral test.
2. Check if the following infinite series are convergent or divergent. If it is convergent, find the sum.

i)  $\sum_{n=1}^{\infty} \left(\frac{4}{3}\right)\left(\frac{5}{7}\right)^n$       ii)  $\sum_{n=1}^{\infty} \frac{1}{n+2}$       iii)  $\sum_{n=1}^{\infty} \frac{3}{2^n}$  .

3. Find a formula for the sequence of partial sums for the series

$\sum_{n=1}^{\infty} \frac{1}{(2n-1)(2n+1)}$  . Determine if the infinite series is convergent or divergent. If it is convergent, find the sum.

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### UNIT – IV

Answer any **TWO** of the following .

**(2x6=12)**

1. Check the convergence of the following series

i)  $\sum_{n=1}^{\infty} (-1)^n \frac{3^{2n+1}}{n^{2n}}$       ii)  $\sum_{n=1}^{\infty} (-1)^{n+1} \frac{3^n}{n!}$  .

2. State and prove Ratio test.

3. Determine if the following infinite series are convergent or divergent

i)  $\sum_{n=2}^{\infty} \frac{(-1)^n}{\log n}$       ii)  $\sum_{n=1}^{\infty} (-1)^n \frac{3}{n^2+1}$  .

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**St Aloysius College (Autonomous)  
Mangaluru**

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

**ELECTRONICS**

**Power Electronics, Oscillators, Elements of Electronic communication and  
Computer Memory**

Time: 2 ½ hrs

Max Marks: 60

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

Answer both the sections.

**SECTION -A**

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

i) ----address lines are required for 8x4 diode ROM.

- a)2                      b) 3                      c) 4                      d) 5

ii) ----- is an example for destructive type memory.

- a)bipolar RAM cell                      b)Dynamic MOS cell  
c) static MOS cell                      d) Flash Memory cell

iii) Monolithic IC regulator 7912 is -----volt regulator.

- a) 5                      b) 10                      c) -12                      d) 12

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iv) \_\_\_\_\_oscillator uses lead lag network in its feedback path.

- a) Phase shift                      b) Colpitts's                      c) Wein bridge                      d) Hartley

v) Input is applied to\_\_\_\_\_ pin of 555 IC.

- a) discharge                      b) trigger                      c) reset                      d) control voltage

vi) Number of sidebands in FM is \_\_\_\_\_.

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

2. Answer any **SIX** questions: (6x1=6)

i) Define efficiency of a power amplifier.

ii) Draw the circuit symbol of a TRIAC.

iii) How much is the maximum efficiency of a Class A transformer coupled power amplifier?

iv) What is meant by volatile memory?

v) Define Modulation Index in FM.

vi) Draw the circuit diagram of Positive Clamper.

vii) Calculate the pulse width of the Monostable Multivibrator.

Given  $R = 1M\Omega$  and  $C = 10\mu F$ .

viii) What are the advantages of SSBSC communication scheme in AM?

Contd...2

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

- i) Define source regulation and load regulation.
- ii) Write any two differences between SCR and TRIAC.
- iii) Draw the circuit of a series transistor regulator.
- iv) Write any four characteristics of LM 312 power amplifier IC.
- v) Define Frequency Modulation.
- vi) With a neat circuit diagram explain Negative clipper.
- vii) Draw the diagram of AM wave for a modulation index of 0.4.
- viii) Give the equation for the frequency and feedback factor of Hartley Oscillator.

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

- i) A controlled half wave rectifier using SCR, employs a step up transformer used has a turns ratio 25:200. Calculate the output dc voltage and dc current. Assume  $\alpha=30^\circ$  and  $R_L=1k\Omega$ .
- ii) With necessary diagrams, obtain the expression for the efficiency of-a Class A resistive load power amplifier.
- iii) With a circuit diagram explain the read/write operation in a dynamic MOS memory cell.
- iv) For an FM wave represented by the voltage equation  

$$e = 12\sin(14 \times 10^8 t + 9\sin 8 \times 10^4 t)$$
. Calculate
  - i. the modulating frequency
  - ii. the carrier frequency
  - iii. the modulation index
  - iv. the maximum deviation
  - v. the power dissipation in  $8 \Omega$  resistor
- v) With a neat diagram explain Yagi – Uda antenna.
- vi) With a neat circuit diagram explain Colpitt's oscillator.

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**Answer any TWO full questions:****(10x2=20)**

5. a) Discuss the classification of power amplifiers based on the placement of Q point of transistor.
- b) With necessary circuit diagram explain a 4X4 diode ROM. Explain how read operation is performed in it.
6. a) With necessary circuit diagram explain the action of a 4-bit ripple (asynchronous) counter.
- b) With a neat diagram explain an Instrumentation Amplifier.
7. a) Define Amplitude modulation and Derive the expression for the instantaneous voltage of an AM wave.
- b) With a neat block diagram explain FM Transmitter

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**B.Sc. Semester III – Degree Examination**

**November/December - 2023**

**COMPUTER SCIENCE - III**

**OBJECT ORIENTED PROGRAMMING CONCEPTS AND PROGRAMMING  
IN JAVA**

**Time: 2½ Hours.**

**Max Marks: 60**

**PART -A**

1. **Answer any SIX of the following.** (6x2=12)
- List any two advantage of an object-oriented programming paradigm.
  - Why do we need import statement?
  - What are wrapper classes?
  - Explain the purpose of private and public visibility modifiers in java.
  - How does string class differ from StringBuffer class?
  - What is the purpose of appletviewer?
  - How to assign priority to thread?
  - How to load the JDBC Driver?

**PART -B**

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

**UNIT - I**

- Explain any four features of Java. (4)
  - Write the difference between C and Java. (4)
  - Explain the while loop with syntax and example. (4)
- Write a Note on Java Virtual Machine. (4)
  - Explain any four basic concepts of OOPS. (4)
  - Explain switch statement with syntax and example. (4)

**UNIT - II**

- Explain how to create class, declare object and access member variables form class with an example. (4)
  - What is method overloading? Give an example. (4)
  - Explain multi-level inheritance with suitable example. (4)
- Explain any four string methods with suitable example. (4)
  - What are constructors? How to define and use constructors in Java. (4)
  - Explain how to create and use a package in Java with suitable example. (4)

**Contd...2**

**UNIT – III**

6. a) What is an exception? With syntax and example explain how to handle exceptions in Java. (4)
- b) Explain life cycle of Applet with neat diagram. (4)
- c) Explain any two GUI components. (4)
7. a) Write a note on layout manager. (4)
- b) How does Applet differ from stand-alone program? (4)
- c) List and explain any five built-in exceptions of Java. (4)

**UNIT – IV**

8. a) Explain Architecture of JDBC with neat diagram (4)
- b) Write a JDBC program to retrieve information from EMP database with fields Empid, Name, Address, PhoneNo (4)
- c) With neat diagram explain life cycle of a thread. (4)
9. a) Explain any four thread methods. (4)
- b) Write a note on components of JDBC. (4)
- c) How communication is achieved with Database by using JDBC API. (4)

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**St Aloysius College (Autonomous)**  
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**B.Sc. - Semester III**

**November/December - 2023**

**STATISTICS - III**

**CALCULUS AND PROBABILITY DISTRIBUTIONS**

**Time: 2 1/2 Hours.**

**Max Marks: 60**

**Note: Answer all parts**

**PART - A**

**I. Answer any FIVE of the following: (2x5=10)**

1. Define partial differentiation. Give an example.
2. Find the distribution function of standard Cauchy distribution.
3. State any two applications of Gamma distribution.
4. Define standard normal distribution.
5. State Central limit theorem.
6. State any two properties of Gamma function.
7. Write the pdf of Chi-square distribution.

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**PART - B**

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

8. a. Derive the mean and variance of uniform distribution.  
b. Derive mean and variance of Exponential distribution with parameter  $\theta$ .
9. a. Derive MGF of Gamma distribution.  
b. Derive mean and variance of two parameter Gamma distribution.
10. a. Derive the mean and variance of Standard Normal distribution.  
b. Derive the mode of Normal distribution.
11. Derive the pdf of Snedecor's F distribution.
12. a. Derive Harmonic mean of Beta distribution of first kind.  
b. Derive the mean and variance of Weibull distribution.
13. a. Find the mean of F distribution.  
b. Derive the mode of Chi-square distribution.
14. a. Explain the steps involved in the generation of random numbers from Cauchy distribution.  
b. Briefly explain Monte Carlo method of simulation and state its application in Statistics.

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ST ALOYSIUS COLLEGE (AUTONOMOUS) MANGALURU  
B.Sc. SEMESTER III - DEGREE EXAMINATION  
NOVEMBER/DECEMBER - 2023  
BOTANY - III  
PLANT ANATOMY AND DEVELOPMENTAL BIOLOGY

Time : 2 ½ Hours

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. Write two objectives of plant anatomy.
2. Mention any two functions of root cap.
3. Define vascular bundle.
4. What is periderm?
5. What are meristemoids? Mention its significance.
6. What do you mean by the term Totipotency?
7. What are tetrahedral microspores ? Give examples.
8. What is orthotropous ovule ? Give an example.

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**SECTION - B**

II Answer any SIX of the following.

(6x5=30)

1. Give a brief account of Tunica Corpus theory.
2. Classify the meristems based on position.
3. Give a brief note on nodal anatomy of monocot stem.
4. Explain the internal structure of dicot stem with a neat labelled diagram.
5. Explain differentiation of bud dormancy with respect to organogenesis.
6. Describe the mechanism involved in initiation of leaf primordium.
7. List out the contributions of P.Maheshwari & K R Shivanna.
8. Explain the structure of a dicot embryo.

Contd...2

SECTION - C

III Answer any TWO of the following.

(2x10=20)

1. Explain the process of double fertilization & triple fusion.
2. Answer the following-
  - a) Phloem Parenchyma
  - b) Xylem vessels
3. What is morphogenesis? With a neat sketch explain the differentiation of root in plants.
4. Describe the initiation and origin of floral apex from vegetative apex in plants.

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

**B.Sc. Semester III – Degree Examination**

**November/December - 2023**

**ZOOLOGY-III**

**Molecular biology, bioinstrumentation and techniques in biology**

**Time: 2½ Hours.**

**Max Marks: 60**

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

**PART – A**

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

1. Explain why Genetic code is degenerate.
2. How do tRNAs recognize codons and amino acids?
3. What are post transcriptional modifications? Mention the processes involved in post transcriptional modifications in eukaryotes.
4. What is the importance of post translational modifications?
5. What is protein Methylation? Mention its importance.
6. What is the principle of high-performance liquid chromatography (HPLC)?
7. Name any two factors that can affect the separation of components in TLC.
8. What is the principle of light microscopy?
9. Write any two applications of centrifuge.
10. Name any two methods used to analyze radiation emitted.
11. List the basic components of a spectrophotometer.
12. Explain the fundamental principle of gel electrophoresis.

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**PART – B**

**II. Answer any FOUR of the following questions. (4X5=20)**

1. Give the transcription factor and their functions.
2. How does chromatin structure influence gene expression in eukaryotes?
3. Briefly explain post transcriptional gene silencing.
4. Describe a typical procedure for performing paper chromatography.
5. Describe the working principle of a pH meter and how it measures pH.
6. How is Mutation introduced into a plasmid?

**PART – C**

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

1. Describe the main steps involved in transcription in prokaryotes.
2. Explain regulation of gene expression in prokaryotes taking lac operon as an example.
3. Discuss the challenges of microscopy and how they can be overcome.
4. Explain the working principle and detection of proteins by PAGE.

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**St Aloysius College (Autonomous)**

**Mangaluru**

**B.Sc. Semester III – Degree Examination**

**November /December - 2023**

**MICROBIOLOGY**

**Microbial Diversity**

Time: 2½ Hours.

Max Marks: 60

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

Draw Diagrams wherever necessary.

**SECTION – A**

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

- a) Which are the Kingdoms of Life under the Three Kingdom Classification system?
- b) What is biodiversity?
- c) Mention the scientific classification of Actinomycetes
- d) Why are viruses called obligate intracellular parasites.
- e) Mention the route of transmission for Trichomoniasis
- f) Mention the treatment for amoebiasis
- g) List the microscopic characters of Rhizopus
- h) What are Plaque Forming Units?
- i) List two examples of gamma proteobacteria
- j) List the sexual spores in fungi
- k) Name four species of plasmodium
- l) List phases of one-step growth curve of viruses.

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**SECTION- B**

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

2. Write briefly about Balantidiasis
3. Discuss briefly any five general characters of Actinomycetes
4. Outline the lysogenic life cycle of bacteriophages.
5. Classify viruses according to their capsid symmetry.
6. Discuss any three features of the Bergey's Manual of Systematic Bacteriology.
7. Summarise the structure of Phylogenetic tree.

**SECTION- C**

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

8. Discuss Morphology and reproduction in cyanobacteria.
9. Discuss the Life cycle, pathogenesis, and treatment of Malaria
10. Appraise utility of small subunit rRNA genes in phylogenetic analysis
11. Elaborate Baltimore classification of viruses.

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**B.Sc. Semester III – Degree Examination**

**November/December - 2023**

**BIOCHEMISTRY - III**

**BIO-ORGANIC CHEMISTRY**

Time: 2½ Hours

Max. Marks: 60

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

**PART – A**

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

(2×5=10)

- Give an example of addition reaction.
- Mention the criteria for Aromaticity.
- List the importance of double bonds in fatty acids.
- Name the basic ring structure of steroids.
- What are antivitamin factors give example.
- Mention the reaction involved with Biotin.

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**PART – B**

Answer any **FOUR** of the following.

(5×4=20)

- Write a note on the structure and importance of imidazole and quinoline.
- Provide the mechanism of antioxidant activity of vitamin C.
- Illustrate on the criteria of anti-aromatic compounds with an example.
- Discuss the classification of alkaloids based on their biological functions.
- Elaborate on nitration of benzene in detail.

**PART – C**

Answer any **THREE** of the following:

(10×3=30)

- Elaborate on S<sub>N</sub>1 and S<sub>N</sub>2 mechanism.
- Explain in detail classification of terpenes.
- Explain the reactions involved in decarboxylation using thiamine pyrophosphate and redox reaction using FADH.
- Discuss on the structure and importance of butter yellow and malachite green.

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**St Aloysius College (Autonomous)**

**Mangaluru**

**B.Sc. Semester III – Degree Examination**

**November/December - 2023**

**BIOTECHNOLOGY - III**

**BIOMOLECULES**

**Time: 2 ½ Hours**

**Max. Marks: 60**

**Note: i) Answer all the questions**

**ii) Draw diagrams wherever necessary**

**PART - A**

1. **Answer any FIVE of the following:** (5×2=10)

- Define glycoproteins. Provide an example of a biologically important glycoprotein.
- Name the two monosaccharides that compose sucrose and the type of glycosidic bond that links them.
- Name the composition of LDL particles.
- Name the main site of cholesterol biosynthesis within the cell and the pathway involved.
- What is the primary function of peptides in biological systems?
- What is the primary difference between tertiary and quaternary protein structure?
- What is the full form of t-RNA? Write the role of t-RNA in protein synthesis.
- Write a note on the principle of Chain termination method of DNA sequencing.

**PART - B**

**Answer any SIX of the following:**

**(6×5=30)**

- Describe the differences between epimers and anomers.
- Explain steps involved in Glycolysis.
- Explain the structure and functions of phospholipids.
- Discuss the health implications of consuming diets rich in saturated fats compared to unsaturated fats.
- Compare and contrast essential and nonessential amino acids.
- Describe the optical properties of amino acids.
- Compare and contrast the functions of messenger RNA (mRNA) and ribosomal RNA (rRNA) in protein synthesis.
- Describe the causes, symptoms and treatment option for Gout in humans.

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**PART - C**

**Answer any TWO of the following:**

**(2×10=20)**

- Describe the Cot curve as a method for studying nucleic acid renaturation.
- Explain the TCA cycle, highlighting the key steps and enzymes involved.
- Explain the classification of lipids based on their physical structure with examples.
- Describe transamination and deamination reactions with suitable examples.

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**ST ALOYSIUS COLLEGE (AUTONOMOUS),  
MANGALURU  
B.A./B.Sc. THIRD SEMESTER - DEGREE EXAMINATION  
November/ December - 2023  
COMPUTER ANIMATION - III  
VISUAL EFFECTS**

Time : 2 ½ Hours

Max. Marks : 60

**SECTION - A**

Answer any **FIVE** of the following.

(5×2=10)

1. What is composition in AE?
2. What are bit rates?
3. How to create Mirror Effects?
4. Name any 2 types Special text effects in After Effects.
5. What is the use of text mask animation?
6. List out the use of adding toggle.
7. What is a stage?

**SECTION – B**

Answer any **FOUR** of the following.

(4x5=20)

8. What is editing on tape? Explain.
9. Explain the techniques of visual effects.
10. Explain different types of video editing.
11. What is keying? How to generate quality keying?
12. Write a note on post production.
13. What is .wmv Format?

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**SECTION – C**

Answer any **TWO** of the following .

(2x15=30)

14. Explain the over view of video file formats.
15. Describe the principles of Editing.
16. Explain the over view of camera techniques.

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**St Aloysius College (Autonomous)**

**Mangaluru**

**B.Sc. - Semester III - Degree Examination**

**November/December - 2023**

**ECONOMICS - III(a)**

**MICRO ECONOMICS - II**

Time: 2½ hrs.

Max Marks: 60

**PART - A**

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

**(2×5=10)**

1. List out any two uses of micro economics.
2. What is a centrally planned economy?
3. Why economist is called as policy adviser?
4. Give the meaning of distribution in economics.
5. State the risk theory of profit.
6. Give the meaning of kinked demand curve.
7. Distinguish between risk pooling and risk spreading.
8. What is N-M utility index?

**PART - B**

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

**(5×6=30)**

9. Explain the concept of static and dynamic equilibrium.
10. Write a note on types of economic activities.
11. Briefly explain Ricardian theory of rent.
12. Briefly explain loanable fund theory of interest.
13. Write a note on dynamic theory of profit.
14. Write a note on price leadership.
15. Briefly explain individual behaviour towards risk.
16. Explain the concept of market for lemons.
17. Explain the prospect theory.

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**PART - C**

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

**(10×2=20)**

18. Define micro economics. Explain its scope and limitations.
19. Explain Keynes liquidity preference theory of interest.
20. Explain Cournot's duopoly model. What are its limitations?
21. Explain the efficient market hypothesis. What are its limitations?

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**St Aloysius College (Autonomous)**

**Mangaluru**

**B.Sc. - Semester III - Degree Examination**

**November/December - 2023**

**ECONOMICS - III(b)**

**BASIC ECONOMETRICS**

Time: 2½ hrs.

Max Marks: 60

**PART - A**

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

**(2×5=10)**

1. What is Longitudinal data?
2. If Adjusted  $R^2 = 0.75$ , how do you interpret?
3. What are the various ways to measure the variables?
4. Which is the dependent variable for the B-P test?
5. When do we apply D-W test?
6. List out any four assumptions of MLRM?
7. Write the procedure of SPSS to find tolerance.
8. What is ARF?

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**PART - B**

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

**(5×6=30)**

9. Derive the parameters using OLS method.
10. Prove that  $TSS = ESS + RSS$
- 11.

<b>Investment Rs.</b>	<b>Interest Rate %</b>
4	8
2	6
3	7
1	5
2	8

Find out the parameters from the above table using crammers rule method.

12. Prove that  $\frac{\sum XY - n\bar{X}\bar{Y}}{\sum X^2 - n\bar{X}^2} = \frac{\sum (X_i - \bar{X})(Y_i - \bar{Y})}{\sum (X_i - \bar{X})^2}$

13. Prove that  $\beta_2 = (\sum W_i \cdot \sum W_i X_i Y_i - \sum W_i X_i \sum W_i Y_i) / (\sum W_i \cdot \sum W_i X_i^2 - (\sum W_i X_i)^2)$
14. Prove that  $d \sim 2(1 - \rho)$
15. Derive  $R^2$  equation using OLS in MLRM.
16. Explain the consequences and solutions to avoid multicollinearity.
17. Write a note on Autocorrelation.

**Contd....2**

## PART – C

III Answer any TWO of the following.

(10×2=20)

18.

Output	No. of workers
10	125
15	145
20	155
25	165
30	185
35	210

Test the following hypothesis

$H_0: \beta_1 = 0$  &  $H_0: \beta_2 = 0$  at 5% significance level.

19. Explain nature and scope of econometrics.
20. What are the assumptions of CLRM? Explain.

21.

Cost	Output
3748	21777
4010	22418
3711	22308
4004	23319
4151	24180
4569	24893
4582	25310
4697	25799
4753	25886
5062	26868
5669	28134
5628	29091
5736	29450
5946	30705
6501	32372
6549	33852
6705	33764
7104	34411
7609	35429
8100	36200

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From the above table test whether data violates any two assumptions of CLRM?

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**St Aloysius College (Autonomous)  
Mangaluru**

**B.Sc. Semester III – Degree Examination**

**November/December – 2023**

**FOOD SCIENCE - III**

**BASICS OF FOOD SAFETY AND QUALITY CONTROL**

Time: 2½ Hours

Max. Marks: 60

Note: i) Answer all the questions

ii) Draw diagrams wherever necessary

**PART – A**

1. Answer any **FIVE** of the following. (2×5=10)
- Define risk classification.
  - Define Allergan contamination.
  - What are Food Safety Programs?
  - What are SSOPs?
  - What are the water sources commonly used in food industry? Explain any two.
  - What is the primary purpose of cleaning agent?
  - What are physical hazards? Give example for intrinsic and extrinsic items

**PART – B**

Answer any **SIX** of the following. (5X6=30)

- Write a short note on FSSAI registration types.
- Explain about biological contamination.
- Describe the fundamental principles of sanitary equipment design in the food processing industry.
- Explain about nutritional information.
- Explain one preventive measure that can be part of an effective pest control program.
- Explain the significance of personal hygiene in preventing the spread of infectious diseases and maintaining overall health
- What are some preventive measures that can be implemented to minimize the risk of pests in a food storage area?
- Explain any five Food laws and their structure adopted in India.

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**PART – C**

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

- Write in detail about Cross contamination.
- What are the importance of food safety in food processing industry?
- Brief about chemical hazards.

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**St Aloysius College (Autonomous)  
Mangaluru**

**B.Sc. Visual Communication - Semester III - Degree Examination**

**November/December - 2023**

**INTRODUCTION TO FILM STUDIES**

Max. Marks : 60

Time : 2 ½ Hours

**PART - A**

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

(10×2=20)

1. Name three major studios that were prominent during the Classical Hollywood era and describe their contributions to the industry.
2. Explain the impact of the 'talkies' on the Indian film industry during the 1930s.
3. Analyze the significance of sound editing and color correction in the post-production process and how they contribute to the overall quality of a film.
4. Write a note on the film 'Jaws'.
5. Can you provide an example of how editing techniques can be used to create suspense in a movie scene?
6. Explain how visual symbolism can enhance storytelling in a film. Provide an example of a film where visual symbols play a significant role in conveying the narrative.
7. Can you name one influential Italian Neorealist film and briefly describe its thematic focus and style?
8. Who are considered the pioneers of cinema, known for their early experiments in motion pictures, and what is their significant contribution to the medium?
9. What is Psychoanalysis, and how does it contribute to a deeper appreciation of cinematic artistry?
10. Explain the core objective of Avant-garde cinema and how it differs from mainstream narrative filmmaking.
11. Briefly mention the works of Adoor Gopalakrishnan.
12. What is semiotics in the context of cinema, and how does it relate to the study of signs and symbols in film?

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**PART - B**

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

(4×5=20)

13. Provide specific examples from well-known movies to illustrate the role of visual aesthetics in conveying thematic elements and character development.
14. Compare and contrast the impact of different framing techniques, such as close-ups and wide shots, on the viewer's perception and emotional connection to characters in a film. How does the choice of camera movement, such as tracking shots or pans, affect the pacing and mood of a scene?
15. Discuss the impact of the introduction of sound in films on the industry and audience experience. What were the advantages and disadvantages of this transition?

Contd..2

- 16. What are the key films or works associated with Charlie Chaplin, Orson Welles, Alfred Hitchcock, and Akira Kurosawa. and can you name one significant contribution or achievement by each of these filmmakers?
- 17. Analyze how the principles of color, lighting, and composition are interrelated in visual storytelling. Discuss how changes in one element may affect the others and influence the overall narrative impact.

**PART – C**

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Write a detailed note on any TWO of the following in 150 – 250 words each

(2x10=20)

- 18. What are the salient features of Soviet montage, and apply them to the context of modern cinema.
- 19. Explain how various elements of film language, such as cinematography and editing, contribute to the overall meaning and impact of a film. Provide specific examples from a film of your choice to support your analysis. How does the director's use of these elements enhance the storytelling and evoke emotions in the audience?
- 20. Choose a recent blockbuster film known for its extensive use of CGI and VFX. Analyze the impact of these visual effects on the overall storytelling, character development, and audience engagement. Consider how the filmmakers used VFX to enhance the narrative, create immersive environments, or even push the boundaries of realism.

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St Aloysius College (Autonomous)  
Mangaluru

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

**ADVANCED PHOTOGRAPHY**

Time : 2 ½ Hours

Max. Marks : 60

**PART - A**

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

(10×2=20)

1. Rule of Thirds
2. Depth of Field
3. Camera Lens
4. Photo Editor
5. Two Shot
6. Street photography
7. ND Filters
8. Kevin Carter
9. Camera Lens Filter
10. Prime Lens
11. ISO
12. Candid Photography

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**PART - B**

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

(4×5=20)

13. Identify the primary techniques used in landscape photography. What factors should a photographer consider when capturing stunning landscapes?
14. Identify the essential equipment and gear needed for a successful outdoor portrait photoshoot. Describe the role of each piece of equipment in the process.
15. List and briefly explain three key ethical principles in image editing. How do these principles guide responsible editing practices?
16. List and briefly explain three commonly used industry standard software programs for advanced photo retouching and editing.
17. Explain the principles of three-point lighting in studio photography.

**PART - C**

Write a detailed note on any TWO of the following in 150 – 250 words each

(2×10=20)

18. Imagine you are photographing a group portrait in a studio with multiple subjects. Explain how you would adapt the three-point lighting technique to ensure even and flattering illumination for all individuals.

**Contd...2**

19. Describe the rise of street photography as a prominent trend in urban photography. What elements and approaches define successful street photography?

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20. Imagine you are covering a major sports event as a sports photographer. Describe your approach to capturing the intensity, emotions, and key moments throughout the event.

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**St Aloysius College (Autonomous)  
Mangaluru**

**B.Sc. - Visual Communication - Semester III - Degree Examination  
November/December - 2023  
PRINT DESIGN AND PRODUCTION**

Max. Marks : 60

Time : 2 ½ Hours

**PART - A**

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

(10×2=20)

1. Typography Design
2. Woodblock Printing
3. Glossy Paper
4. Adobe Illustrator
5. Corel Draw
6. Golden Mean
7. Letterhead design
8. Justify
9. A7
10. Pantone colors
11. Posters, banners and billboards
12. Graphic Designer

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**PART - B**

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

(4x5=20)

13. Define and explain the concept of the "grid" in page layout design.
14. Recall the standard dimensions and paper size for business cards, posters and brochures.
15. Discuss the advantages of using the point system as a standard for font measurement in print design.
16. Define the term "prepress" in the context of print production and describe its role in the workflow.
17. Define the CMYK color mode and explain its typical use in digital design.

**PART - C**

Write a detailed note on any TWO of the following in 150 -- 250 words each

(2x10=20)

18. Outline a packaging concept for a high-end cosmetics product, choosing a paper type and finish that enhance the product's perceived value and luxury appeal. Present your design concept.
19. Explain the impact of using the rule of thirds in visual composition. How does it guide the viewer's attention and influence their perception?
20. Identify the primary elements of a magazine cover design. Explain how typography and imagery play a role in book cover aesthetics.

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**St Aloysius College (Autonomous)  
Mangaluru**

**B.A./B.Sc./B.Com./B.B.A. Semester III – Degree Examination  
November/December - 2023  
(Skill enhancement Course)**

**ARTIFICIAL INTELLIGENCE/CYBER SECURITY**

Time: 2½ Hours

Max Marks: 60

**SECTION A**

**Answer the following questions (Compulsory)**

**(15x1=15)**

1. Mention the technique used in Unsupervised Learning.
2. Expand NLP and OCR.
3. The capability of software to interpret the world visually through cameras, video, and images is \_\_\_\_\_.
4. AI machines are highly reliable and but can not perform the same action multiple times with high accuracy - True or false
5. In Artificial Neural Network interconnected processing elements are called \_\_\_\_\_.
6. Name any two antivirus softwares used in Computers.
7. What is Malware?
8. Name any two voice assistants.
9. A form of reasoning to arrive at a conclusion using limited sets of facts by the process of generalization is
  - a) Common sense
  - b) Inductive
  - c) Deductive
  - d) Abductive
10. An example for Linguistic intelligence
  - a) Narrator
  - b) Singer
  - c) Politician
  - d) Dancer
11. Which of the following is a component of Artificial Intelligence?
  - a) learning
  - b) training
  - c) designing
  - d) Pluzzing
12. Azure Machine Learning tool to create interactive reports and dashboards.
  - a) AutoML
  - b) Power BI
  - c) Jupyter Notebooks
  - d) Azure Databricks

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**Contd...2**

- 13. What is the primary goal of a cybercriminal when carrying out a phishing attack?
  - a) to spread awareness about cybersecurity
  - b) to provide free software
  - c) to trick individual into revealing sensitive information
  - d) to win a prize.
- 14. What does "Phishing" refer to in the context of cybercrime?
  - a) A type of Fishing in a river.
  - b) A method used to steal sensitive information through deceptive emails or websites.
  - c) A way to catch computer viruses.
  - d) A type of online game.
- 15. Which of the following is defined as an attempt to harm, damage or cause threat to a system or network?
  - a) Digital crime
  - b) Threats
  - c) System hijacking
  - d) Cyber attack

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**SECTION B**

**Answer any TEN of the following:**

**(10x2=20)**

- 16. What you mean by supervised Learning?
- 17. List four applications of AI.
- 18. What you mean by musical intelligence?
- 19. What is reinforcement learning?
- 20. Mention the steps involved in Problem Solving.
- 21. Define Artificial Neural Network. Mention three layers in ANN.
- 22. What are the most common types of cyber security attacks?
- 23. What is Cyber Crime? Give examples.
- 24. Mention any two methods to prevent phishing.
- 25. What are three components of risk mitigation?
- 26. Mention the common types of financial frauds.
- 27. Mention any two sections of IT Act.

**SECTION C**

**Answer any FIVE of the following:**

**(5x5=25)**

- 28. Explain the Advantages and Disadvantages of AI.
- 29. Explain any two types of Machine Learning.
- 30. What is Reasoning? Explain its types.
- 31. Write a note on Cyber Security Model.
- 32. Explain any five types of Cyber Security.
- 33. Explain the different steps involved in reporting cybercrimes.
- 34. What is a computer virus? Explain the symptoms of virus attack.

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(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 III - Degree Examination  
November / December - 2023**

**ENGLISH**

Time: 2½ hrs.

Max Marks: 60

**UNIT - I PROSE**

**I. A Answer the following in a word/phrase/sentence each: (5×1=5)**

1. "Cinema always portrayed courtesans as \_\_\_\_\_ whose lives are intertwined in a morality tale."
2. Expand the acronym GUI
3. Name the novel of Amitav Ghosh mentioned in the essay, 'The Diaspora Men.'
4. The pervasive bureaucracy emphasized capital goods vis-à-vis consumer goods. TRUE/FALSE
5. What is the arrangement or classification of something into different groups or strata known as?

**B Answer any THREE of the following in about 150-180 words each: (3X5=15)**

1. Write a note on the experience of Munshi Rahman Khan on the Caribbean Island.
2. What are the obstacles that prevent the end of caste system in India? Explain.
3. Comment on the misogynist idea that "the ideal woman was a perfect mother and wife, not a sensuous dancing girl", with reference to the essay, 'Tawaifs of Awadh: The First Women of Hindi Cinema.'
4. Briefly explain the reasons behind India's poor performance in creating world class products and services?

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**UNIT - II POETRY**

**II. Answer any TWO of the following in about 150-180 words each:**

**(2X5=10)**

1. The poet urges the slave to fight and liberate himself; if necessary, even die for a cause instead of dying in vain. Explain with reference to the poem, 'Time to Die.'
2. Write a short note on the ordinary jobs done by the rural folk and the threat for these jobs with reference to the poem, 'For the Dispossessed'.
3. The poem, 'We Wear the Mask,' presents the familiar contrast between "outside and inside," "us and them" and "private and public." Explain these contrasts with reference to the poem.
4. Critically analyse the title of the poem, 'The Unquiet Grave.' Do you personally believe that life exists even after death?

**Contd...2**

**UNIT - III SHORT – STORY****III. Answer any TWO of the following in about 150-180 words each: (2X5=10)**

1. In the short story, 'The Bet' the sixth year shows the prisoner developing an enthusiastic interest in learning language, history and philosophy. Write a note on "isolation as a means to acquire knowledge."
2. How did the renunciation note of the prisoner affect the banker? Explain.
3. Compare the spectacle of the trial with modern forms of public entertainment.
4. Write a short note on the strange nature of the king with reference to the short story, 'The Lady or the Tiger?'

**UNIT – IV GRAMMAR AND WRITING SKILLS****IV A. Choose appropriate words from the given list (adjective & preposition) and fill in the blanks. (5x1=5)**

1. She was \_\_\_\_\_ her friend because she had a better dress.
2. She is \_\_\_\_\_ driving than he is.
3. We're totally \_\_\_\_\_ the road -widening scheme and will fight it all the way.
4. The town is especially \_\_\_\_\_ its elegant architecture.
5. I felt very \_\_\_\_\_ making such a stupid mistake.

**(Adjectives: better, good, ashamed, capable, opposed, responsible, famous, jealous)**  
**(prepositions: at, for, on, of, to)**

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**B. Choose appropriate phrasal verbs from the given list and fill in the blanks. (5x1=5)**

1. I \_\_\_\_\_ a vase that I wanted to buy when I went to the antique shop.
  2. He asked me to \_\_\_\_\_ the lights if I was the last to leave.
  3. The price of tomatoes usually \_\_\_\_\_ in the winter months.
  4. When his father passed away, Tom \_\_\_\_\_ the family business.
  5. If you don't \_\_\_\_\_ of his house, I'll send for the police immediately.
- (get out, look at, turn off, keep up, went off, goes up, came across, took over)**

**C. Fill in the blanks with Simple Past/ Past Perfect forms of verbs given in brackets: (5x1=5)**

When I arrived at the theatre, Kathy (already, pick) \_\_\_\_\_ (1) up the tickets and she was waiting for us near the entrance. She was really angry because she (wait) \_\_\_\_\_ (2) for more than half an hour. She said she (almost, give) \_\_\_\_\_ (3) up and wanted to get into the theatre without us. She also told me that I (be) \_\_\_\_\_ (4) late several times in the past. She mentioned that she (miss) \_\_\_\_\_ (5) several movies because of my late arrivals. I think I owe her an apology.

**D. Read the following context carefully and write a report in about 200 words: (1x5=5)**

The human resource manager has requested the members of the human resource department to examine the high turnover rate of employees at the GHS Corporation. A five-member team has analyzed the administration records and working conditions as well as interviewed staff.

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St Aloysius College (Autonomous) Mangaluru

B.A./ B.Com./ B.B.A./ B.Sc./ B.C.A. Semester III Examination

November/December - 2023

HINDI

Time: 2½ hrs.

Max Marks: 60

I अ) किसी एक प्रश्न का उत्तर लिखिए :

(1X5=05)

1. निम्नलिखित गद्यांश को अंग्रेजी में अनुवाद कीजिए :

खाद्य पदार्थों में मिलावट एक घृणित धोखा है जो एक व्यक्ति द्वारा दूसरे व्यक्तियों के साथ किया जाता है। ज्यादा से ज्यादा पैसा कमाने के लिए लोगों के जीवन से खेलना क्रूरता है। मूलतः अनचाहे पदार्थ जैसे- धूल, अशुद्धियाँ, पत्थर के कणों आदि को खाने के सामान में मिलाना जो उसके रंग, आकार और रूप बनावट आदि से मिलते हों, मिलावट है। इसके विशेष उदाहरण हैं दूध, मसाले, तेल और घी, दालें इत्यादि। न केवल यह लोगों से पैसा छीनने के समान है बल्कि उन्हें जहरीले और हानिकारक खाद्य पदार्थ देकर, उन्हें मूर्ख बनाना है। वे लोगों के जीवन के साथ खिलवाड़ कर रहे हैं। खाद्य सामग्री क्रय करते समय हमें बहुत सावधान रहना चाहिए।

2. अनुवादक के सहायक साधनों पर प्रकाश डालिए।

आ) किसी एक प्रश्न का उत्तर लिखिए :

(1X5=05)

1. संपादकीय पर टिप्पणी लिखिए।
2. विद्यालय के वार्षिकोत्सव पर प्रतिवेदन लेख लिखिए।

II एक वाक्य में उत्तर लिखिए :

(10X1=10)

1. बाइनरी नंबर किसे कहते हैं?
2. All well that ends well हिन्दी में अनुवाद कीजिए।
3. एंकर बाइट किसे कहा जाता है?
4. The iron age हिन्दी में अनुवाद कीजिए।
5. रिपोर्टाज / प्रतिवेदन लेखन किसे कहते हैं?
6. चिंतन, विचार - विश्लेषण का माध्यम कौनसा है?
7. Storage Device को सामान्य भाषा में क्या कहते हैं?
8. साहित्यिक अनुवाद को कितने भागों में बाँटा गया है?
9. भारत में टेलीविशन की सेवा कब प्रारम्भ हुई?
10. भारत के पहले सुपर कंप्यूटर का क्या नाम है?

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III एक वाक्य में उत्तर लिखिए :

(10X1=10)

1. नील क्या संदेश लेकर आता है?
2. पुलिस का मानवतावाद कौन-सा था?
3. बेटा बीमार बाप की सेवा क्यों नहीं करता है?

Contd...2



4. पाकिस्तान किस राष्ट्र से हथियारों की मदद ले रहा था?
5. डॉ राजेन्द्र प्रसाद को जुलूस निकलने के दिन किस बात का डर था?
6. प्रोफ़ेसर ने सीमा से आगे धकेला, ताकि कलामजी क्या पहचान सके?
7. हमारी पृथ्वी का एक क्षुद्र उपग्रह कौन सा है?
8. प्रोफ़ेसर कब पूरे विन्यास का आरेख देखना चाहते थे?
9. राम का मन किस में उलझा हुआ दिखाई देता है?
10. 'इंस्पेक्टर मातादीन चाँद पर' पाठ के लेखक कौन है?

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

(1x5=05)

1. "इंस्पेक्टर मातादीन की सेवाएँ हमें प्रदान करने के लिए अनेक धन्यवाद। पर अब आप उन्हें फौरन बुला लें। हम भारत को भिन्नदेश समझते थे, पर आपने हमारे साथ शत्रुवत् व्यवहार किया है। हम भोले लोगों से आपने विश्वासघात किया है।"
2. "मुझे तुमसे ज्यादा उम्मीद थी। यह कार्य निराशाजनक है। मुझे बहुत निराशा हुई। तुम्हारे जैसा होनहार छात्र और ऐसा काम!"

आ) निम्नलिखित किसी एक पद्यांश का संदर्भ सहित व्याख्या कीजिए :

(1x5=05)

1. "परिताप  
पश्चाताप  
ओ अशोकों की छाँहवाली  
जानकी!  
जानते भी क्यों गये हम  
स्वर्ण मृग हित?  
क्यों गये पथ भूल?  
उस वंचक के पदों में  
सर्प बन सौमित्ररेखा  
क्यों नहीं लिपटी  
यह परिताप"
2. "हाय  
आज तक मैं निमित्त ही रहा  
कुल के विनाश का  
लेकिन अब नहीं बनूंगा कारण  
जन के विनाश का।"

V किसी एक प्रश्न का उत्तर लिखिए :

(1X10=10)

1. रामेश्वरम से बड़े शहरों में पहुँचकर डॉ. कलाम ने स्वयं में क्या बदलाव किए? स्पष्ट कीजिए।
2. डॉ राजेन्द्र प्रसाद जी द्वारा राष्ट्रपति पदग्रहण करते समय के अनुभवों को विस्तार से लिखिए।

VI किसी एक प्रश्न का उत्तर लिखिए :

(1X10=10)

1. संशय की एक रात खंडकाव्य के प्रथम सर्ग का सारांश लिखिए।
2. संशय की एक रात खंडकाव्य में वर्णित लक्ष्मण का चरित्र- चित्रण कीजिए।

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ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ), ಮಂಗಳೂರು  
ಬಿ.ಎಸ್ಸಿ - ಮೂರನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ  
ನವೆಂಬರ್/ಡಿಸೆಂಬರ್ - 2023  
ಕನ್ನಡ ಭಾಷಾಪತ್ರಿಕೆ - 3

ಸಮಯ : 2½ ಘಂಟೆ

ಗರಿಷ್ಠ ಅಂಕ: 60

- I ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 7 X 3= 21
1. ಜನಪದ ಮಹಾಕಾವ್ಯದಲ್ಲಿ 'ಕುಶ್ವಲು ಅವುಲು' ಪುಸ್ತಕದ ಸ್ವಾರಸ್ಯವನ್ನು ಬರೆಯಿರಿ
  2. ಆದರ್ಶದ ಸಾಧನೆಗಾಗಿ ಅರ್ಪಿಸಿಕೊಂಡ ಮದರ್ ತೆರೇಸಾ ಮತ್ತು ಡಾ.ಸುದರ್ಶನರ ಸಾರ್ಥಕ ಬದುಕಿನ ಚಿತ್ರಣವನ್ನು ವಿವರಿಸಿರಿ
  3. ಹೊರಗಿನ ಶತ್ರುಗಳಿಗಿಂತ ಒಳಗಿನ ಬಂಧುಮಿತ್ರರ ಹೆಚ್ಚು ಅಪಾಯಕಾರಿ ಎಂಬುದು ನಿಜಗಲ್ಲಿನ ರಾಣಿ ಕತೆಯಲ್ಲಿ ಹೇಗೆ ನಿರ್ದರ್ಶನವಾಗುತ್ತದೆ? ವಿವರಿಸಿರಿ
  4. ಮನುಷ್ಯನ ಬದುಕು ಮಬ್ಬಿನಿಂದ ಮಬ್ಬಿಗೆ ನಡೆಯುವ ಪಯಣ ಎಂಬುದನ್ನು ಕವಿ ಹೇಗೆ ಚಿತ್ರಿಸಿದ್ದಾರೆ? ವಿವರಿಸಿರಿ
  5. ಯಕ್ಷ ತನ್ನ ಸತಿಗೆ ಮೋಡದ ಮೂಲಕ ಕಳುಹಿಸಿದ ಸಂದೇಶವೇನು? ವಿವರಿಸಿರಿ
  6. ಮಯೂರಧ್ವಜನ ಭಕ್ತಿ ಮತ್ತು ಸತ್ಯನಿಷ್ಠೆಯನ್ನು ವಿವರಿಸಿರಿ
- II ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ 3X 3= 09
7. ಯುದ್ಧ ಕವನದಲ್ಲಿ ಯುದ್ಧದ ಕಾರಣ, ಪರಿಣಾಮಗಳ ಅರ್ಥಪೂರ್ಣ ಚರ್ಚೆ ಹೇಗೆ ಮೂಡಿಬಂದಿದೆ?
  8. ಹೊಸ ಮಾಧ್ಯಮಗಳ ಲಕ್ಷಣ, ಪ್ರಯೋಜನ ಮತ್ತು ಸಾಧ್ಯತೆಗಳನ್ನು ಕುರಿತು ಬರೆಯಿರಿ
  9. ಅಭಿವೃದ್ಧಿಯ ಹೆಸರಿನಲ್ಲಿ ಹಳ್ಳಿಗಳು ಹಾಳಾಗುತ್ತಿರುವ ಆತಂಕವನ್ನು ಶೇವಿರೆಯವರ ಲೇಖನದ ಹಿನ್ನೆಲೆಯೊಂದಿಗೆ ಪರಿಚಯಿಸಿ
  10. ದೇವಯಾನಿ ಕಚನಿಗೆ ಶಾಪವನ್ನು ಕೊಟ್ಟ ಸಂದರ್ಭವನ್ನು ಪರಿಚಯಿಸಿ
  11. ಶಾನುಭೋಗರ ಮಗಳ ಕುರಿತು ಕವಿಯ ಭಾವನೆ ಹೇಗೆ ವ್ಯಕ್ತವಾಗಿದೆ?
  12. ಋಣವೆಂಬುದು ಪಾತಕ ಎಂದು ಪುರಂದರದಾಸರು ಕೀರ್ತನೆಯಲ್ಲಿ ಹೇಗೆ ನಿರೂಪಿಸಿದ್ದಾರೆ?
- III ಒಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಪದ್ಯದ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ 4 X1= 04
13. ಸುರನದಿಯ ತೋಯಮಿರೆ ನೀರಡಿಸಿ ಹಿಮಜಲಕೆ  
ಪರಿವಂತೆ ನಿನ್ನ ದರ್ಶನಮಿದುರ್ಮೀ ಮಹಾ  
ಧ್ವರಕೆಳಸುವವನಲ್ಲ ತನ್ನಮಂ ತನ್ನ ಸತಿಸುತರುಮಂ ತನ್ನೊಳಿದರ್  
ತುರಗಂಗಳಂ ತನ್ನ ಯಜ್ಞಮಂ ಯಜ್ಞೋಪ  
ಕರಣಂಗಳಂ ತನ್ನ ರಾಜ್ಯಮಂ ತನ್ನ ಮಂ  
ದಿರದ ಸರ್ಪಸ್ವಮಂ ನಿನ್ನಪದಕರ್ಪಿಸಿದನೆಂದವಂ ಕೈಮುಗಿದನು
  14. ಆರಗಳಲ್ಲಿ ಕೆಂಗಾವಿಯಿಂದ ಹುಸಿಮುನಿಸಿನವಳ ಬರೆದು  
ನಿನ್ನ ಮೆಲ್ಲಣ್ಣಿಗೆ ಕೆಡಹಿಕೊಳ್ಳಲು ಬರುತ್ತಿರಲು ಮುಂದುವರಿದು  
ಕಣ್ಣು ತುಂಬಿ ಕಂಗೆಡಿಸಿ ಕಂಬನಿಯ ಹಳ್ಳ ಹರಿದಿತಲ್ಲ  
ಚಿತ್ರದಲ್ಲಿ ಕೂಡುವುದು ಕೂಡ ಆ ವಿಧಿಗೆ ಸೇರಲಿಲ್ಲ

Contd...2

- IV ಎರಡು ಪದ್ಯ ಸಾಲುಗಳ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸಾಲಿನ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ 2X2= 04
15. ಒಳಗೆ ನಂದಾದೀಪ ನಂದಿಹೋಗಿ
  16. ವಿಶ್ವವನ್ನೇ ಆಪೋಶನ ಮಾಡುವ ತವಕ
  17. ಸಂಜೆ ಬಾನಿನ ತುಂಬ ಹಗಲ ನೆನಪಿನ ಚಿತ್ರ
  18. ನಾನು ಸಮುದ್ರದ ಕಡೆಗೋಯ್ದಿದ್ದೀನಿ ನೀನು ಚಾಮತ್ಯಕ್ಕಾದ ಊಟ ತರಬೇಕು
- V ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ 3X2= 06
19. ಉತ್ತರಮೇಘ
  20. ಬುಟ್ಟಿವಳ ಕಟ್ಟುಕೊಂಡೆ ಸನ್ನಿವೇಶದ ಹಿನ್ನೆಲೆ
  21. ಮೃತ ಸಂಜೀವಿನಿ ವಿದ್ಯೆ
  22. ಮಯೂರಧ್ವಜನ ದೇಹಾರ್ಥ ದಾನ ಕಾವ್ಯದ ಬ್ರಾಹ್ಮಣ
- ಆ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ 3X2= 06
23. ನಾರಾಯಣ ಶೇವಿರೆ
  24. ಸರ್ವಜನಾಧರಣಿಯ ವ್ಯಕ್ತಿ ಸ.ಪ. ಗಾಂವಕರ
  25. ಸರ್ಚ್ ಇಂಜಿನ್
  26. ನಿಜಗಲ್ಲಿನ ರಾಣಿ ಕತೆಯ ಕಸ್ತೂರಿ ನಾಯಕ
- VI ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ 1X10= 10
27. ಸು.ರಂ.ವಿಕ್ಕುಂಡಿಯವರ ಯಾವ ಕೃತಿಗೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ ಸಂದಿದೆ?
  28. ಕರ್ನಾಟಕ ಕವಿಚೈತ್ರವನ ಚೂತ ಎಂಬ ಬಿರುದು ಪಡೆದ ಕವಿಯ ಹೆಸರೇನು?
  29. ಮಾಸ್ತಿಯವರಿಗೆ ಅಭಿಮಾನಿಗಳು ಸಲ್ಲಿಸಿದ ಅಭಿನಂದನಾ ಗ್ರಂಥದ ಹೆಸರೇನು?
  30. 'ಪ್ರಪಂಚ' ಎಂಬ ಹೆಸರಿನ ವಾರ ಪತ್ರಿಕೆಯನ್ನು ಪ್ರಾರಂಭಿಸಿದವರು ಯಾರು?
  31. ಶಾನ್ತುಭೋಗರ ಮಗಳು ಕವಿತೆಯನ್ನು ಯಾವ ಕವನ ಸಂಕಲನದಿಂದ ಆಯ್ದುಕೊಳ್ಳಲಾಗಿದೆ?
  32. ಪಿ.ಕೆ.ರಾಜಶೇಖರ ಅವರಿಗೆ ಸಲ್ಲಿಸಲಾದ ಅಭಿನಂದನಾ ಗ್ರಂಥದ ಹೆಸರೇನು?
  33. ಕನ್ನಡದ ಪರಕವಿಯೆಂದು ಪ್ರಸಿದ್ಧರಾದ ಕವಿ ಯಾರು?
  34. ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪನವರಿಗೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ ತಂದುಕೊಟ್ಟ ಕೃತಿ ಯಾವುದು?
  35. 'ಮಲ್ವಿಮೀಡಿಯ' ಪದದ ಕನ್ನಡ ರೂಪವೇನು?
  36. ಪುರಂದರದಾಸರ ಕೃತಿಗಳನ್ನು ಪುರಂದರೋಪನಿಷತ್ತೆಂದು ಕರೆದವರು ಯಾರು?

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## St Aloysius College (Autonomous)

Mangaluru

B.Sc. – Semester III – Degree Examination

November/December - 2023

## SANSKRIT

Time: 2½ Hrs

Max Marks: 60

- 1 श्लोकद्वयम् अनुवादं कृत्वा विवृणुत । (2 x 5 = 10)
- 1.1 यथा शिखा मयूराणां नागानां मणयो यथा ।  
तद्वद्वेदाङ्गशास्त्राणां ज्योतिषं मूर्ध्नि संस्थितम् ॥
- 1.2 वालाग्रशतभागस्य शतधा कल्पितस्य च ।  
भागो जीवः सः विज्ञेयः स चानन्त्याय कल्पते ॥
- 1.3 मा निषाद ! प्रतिष्ठां त्वमगमः शाश्वतीः समाः ।  
यत्क्रौञ्चमिधुनादेकमवधीः काममोहितम् ॥
- 1.4 वक्त्रेण उत्पलनालेन यथोर्ध्वं जलमाददेत् ।  
तथा पवनसंयुक्तः पादैः पिबति पादपः ॥
- 2 त्रीन् सन्दर्भसहितविवरणं लिखत । (3 x 4 = 12)
- 2.1 गणितं तावत् विज्ञानस्य मूलम् ।
- 2.2 लङ्घेति नाम रजनीचरराजधानी ।
- 2.3 योगः चित्तवृत्तिनिरोधः ।
- 2.4 पादैः पिबति पादपः ।
- 2.5 काले हितं मितं सत्यं मधुरञ्च ब्रूयात् ।
- 3 त्रीन् प्रबन्धरूपेण उत्तरयत । (3 x 5 = 15)
- 3.1 प्राचीनभारतीयविज्ञाने खगोलशास्त्रमधिकृत्य लिखत ।
- 3.2 रामस्य अवतारनिर्धारं यथा पाठोक्तं लिखत ।
- 3.3 ज्योतिष्यशास्त्रस्य इतिहासः – पाठोक्त विचारान् विषदयत ।
- 3.4 वृक्षायुर्वेदः – पाठोक्त विचारान् लिखत ।
- 3.5 दिनचर्याप्रदीपिका – पाठोक्त विचारान् विषदयत ।
- 4 एकं संस्कृतेन टिप्पणीं लिखत । (1 x 6 = 6)
- 4.1 रामायणम् ।
- 4.2 चम्पूकाव्यम् ।
- 4.3 योगशास्त्रम् ।
- 5 द्वयोः टिप्पणीं लिखत । (2 x 4 = 8)
- 5.1 आयुर्वेदः ।
- 5.2 गणितशास्त्रम् ।
- 5.3 चम्पूकाव्यम् ।

Contd..2

- 6 न्यायत्रयं विषदयत ।  
6.1 सिकतातैलन्यायः ।  
6.2 नष्टाश्चदग्धरथन्यायः ।  
6.3 भिक्षुपादप्रसारणन्यायः ।  
6.4 अरण्यरोदनन्यायः ।  
6.5 रज्जुसर्पन्यायः ।

(3 x 3 = 9)

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**St Aloysius College (Autonomous)  
Mangaluru**

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

**KONKANI**

**Time: 2 1/2 Hours**

**Max. Marks: 60**

**ಯುನಿಟ್ 1 - ಕವನಾಂ**

**I ಖಂಚಾಯ್ ಎಕಾ ಕವನಾಚೊ ಸಾರಾಂಶ್ ಬರಯಾ.**

**(5×1=5)**

ಅ) ದೊಳೆ ಧಾಂಪುನ್ ದೂದ್ ಪಿಯೆಂವ್ಪಿ  
ಸವಯ್ ತಾಣೆಂ ಸೊಡ್ಲಾ  
ಆತಾಂ ತೆಂ ದೊಳೆ ಉಗ್ತೆಚ್ ದವರ್ನ್  
ದೂದ್ ಪಿಯೆವ್ನ್ ಸರಯ್ತಾ

ಆ) ಗಾಂವ್ ಗೊ ಚೆಡ್ಲಾ  
ಮ್ಹಜೊ ಗಾಂವ್ ಗೊ  
ಬಾರಾ ಗಾಂವ್ ಭರ್  
ತಾಚೆಂ ನಾಂವ್ ಗೊ  
ವ್ಹಡ್ಪಿಕಾಯ್ ಕಾಂಯ್  
ಸಾಂಗ್ಪಿ ನ್ಹಯ್  
ಪಳಲ್ಯಾ ಖರಿತ್ ತುಕಾ  
ಕಳ್ಳಿ ನ್ಹಯ್  
ಗಾಂವಾಕ್ ಯೇಗೊ  
ಮಾಗಿರ್ ಸಾಂಗ್ ಗೊ  
ದುದಾ ಮೊಂವಾಚೊ  
ಮ್ಹಜೊ ಗಾಂವ್ ಗೊ

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ಇ) ಹಿಂ ನಾತಿಂ ಹಿಂ ಬಂಧ್ವಾಂ  
ಸಗ್ಳಿಂ ವೆಳಾಕಾಳಾಚಿಂ  
ಗರ್ಜ್ ಜಾಲ್ಚಿಕ್ ವಯ್ ಮೊರ್ತಾಚ್  
ಮಾಗಿರ್ ಭಿಯಾಂಕ್ ಮಾತಿ ಕೋಣ್ ಗೀ

**II ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ.**

**(1×5=5)**

ಅ) ಕೊಣಾಕ್ ಕೋಣ್ ಗೀ ಕವನಾಚೊ ಕವಿ ಕೋಣ್ ?  
ಆ) ಪೊವ್ಪಿಂ ಕವಿತಾ ಪುಸ್ತಕ್ ಕೊಣೆಂ ಪರ್ಗಟ್ ಕೆಲ್ಲೆಂ?  
ಇ) ಕೊಣಾಚ್ಯಾ ಮೆಳಿಂತ್ ಸಮಾಜ್ ಜಾತಾ ಸಾರೆಂ ?  
ಉ) ಜುಪೆಸ್ ಕೊಣಾಚೆಂ ಕಾವ್ಯನಾಮ್ ಜಾವ್ನಾಸಾ?  
ಊ) ಎಚ್. ಎಮ್. ಪೆರ್ನಾಲ್ ಕಾವ್ಯ ನಾಮಾಚೊ ಕವಿ ಕೋಣ್?

**III ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.**

**(5×1=5)**

ಅ) ಬಾಬಾಚ್ಯಾ ಪಿಡೆಕ್ ಆನಿ ಮಾಂಯ್ಚ್ಯಾ ಪಿಡೆಕ್ ಆಸೊ ವ್ಯತ್ಯಾಸ್ ಕಳಯಾ  
ಆ) ಕವಿ ಪ್ರಕಾರ್ ಕೋಣ್ ನಿದೊನ್ ಉರ್ಲಾ, ಕಳಯಾ.

**Contd...2**

## ಯುನಿಟ್ 2 - ಗದ್ಯ ಭಾಗ

I ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ:

(1×5=5)

- ಅ) ಹಿಪ್ಪಿ ಚಲಿಯೆಚೆಂ ನಾಂವ್ ಕಿತೆಂ ? ತಿ ಖಂಚ್ಯಾ ಗಾಂವ್ಚಿ?  
 ಆ) "ಶೆಣೆಯ್, ಫುಲ್ ಜಾಲೆಂ " ಹಿಂ ಉತ್ರಾಂ ಕೊಣಾಚಿಂ?  
 ಇ) ಹಿಪ್ಪಿ ಚಲಿಯೆಚೊ ಬರಯ್ತಾರ್ ಕೋಣ್?  
 ಈ) "ಮ್ಹಜಿ ಬಾ ಖಂಯ್ ಗೆಲಿ" ಕೆನ್ನಾಂ ಪ್ರಕಟ್ ಜಾಲಿ?  
 ಉ) ಹಿಪ್ಪಿ ಚಲಿ ಪರ್ಗಟ್ ಜಾಲ್ಲೆಂ ವರ್ಸ ಖಂಚೆಂ?

II ಖಂಚಾಯ್ ಎಕಾ ಪಾತ್ರಾಚಿ ಪರಿಚಯ್ ದಿಯಾ

(5×1=5)

- ಅ) ವಾಸಂತಿ  
 ಆ) ಹಿಪ್ಪಿ ಚಲಿ

III ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.

(5×1=5)

- ಅ) ಬಾಬುಲೊ ಆನಿ ತಾಚೊ ಸಂಬಂಧ್ ಆಪ್ಲ್ಯಾ " ಬಾ " ಸಂಗಿಂ ವಿವರಿಯಾ .  
 ಆ) ಅಪ್ಪು ಶೆಣೆಯ್ ಜಾಲ್ಲ್ಯಾ ಪ್ರಸಾದ ಫುಲ್ ವಿಶಿಂ ಬರಯಾ.

## ಯುನಿಟ್ 3 - ನಾಟಕ್

I ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ.

(1×5=5)

- ಅ) ಚಾ. ಫ್ರಾ. ಚೆಂ ಜನನ್ ಕೆನ್ನಾಂ ಜಾಲೆಂ?  
 ಆ) ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪುರಸ್ಕೃತ್ ಕವಿ ಕೋಣ್?  
 ಇ) ಸೊಂಶಾಚೆ ಕಾನ್ ಕಿತೆಂ ಜಾವ್ನಾಸಾ?  
 ಈ) ಬಂಗಾರ್ ಮ್ಹನಿಸ್ ಕೋಣ್?

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ಉ) ಚಾ. ಫ್ರಾ. ಚ್ಯಾ ಖಂಚಾಯ್ ಎಕಾ ನಾಟಕಾಚೊ ಉಲ್ಲೇಖ್ ಕರಾ.

II ಖಂಚಿಯ್ ಎಕ್ ಕೊಣೆಂ, ಕೊಣಾಕ್ ಅನಿ ಖಂಚಿಯ್ ಸಂದರ್ಭಾರ್ ಸಾಂಗ್ಲಿಂ ಉತ್ರಾಂ ಕಳಯಾ.

(1×5=5)

- ಅ) ಭುಕೆಲ್ಲೊ ವಾಗ್ ಪುಣಿ ವಯ್, ಬಾಯ್ಲಾಂಚೊ ರಾಗ್ ನಹಿಂ.  
 ಆ) ಸತ್ ಆನಿ ಫಟ್ ಮೊನ್ನಾ, ಮನ್ನಾ ಚ್ಯಾ ಮರ್ಯಾದಿಚೆಂ ಹಾತೆರ್.

III ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.

(1×5=5)

- ಅ) " ಮೇರಿ ಅನಿ ತಾಚೊ ಸಾಂಡ್ ಲ್ಲೊ ಫೊ ವ್ " ನಾಟಕಾಂತ್ ಕಶೆಂ ಸೂಕ್ತ ಜಾತಾ ವಿವರಿಯಾ.  
 ಆ) "ಬಂಗಾರ್ ಮನಿಸ್" ನಾಟಕಾಂತ್ ನೀಜ್ ಬಂಗರ್ ಮನಿಸ್ ಕೋಣ್? ಆನಿ ತಾಚೆಂ ವ್ಯಕ್ತಿತ್ವ್ ಕಳಯಾ.

IV ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ.

(5×1=5)

- ಅ) ಸಂಪಾದಕಾಕ್ ಪತ್ರ ಬರಯ್ತಾನಾ ಹಸ್ತಾಕ್ಷರ್ ಗರ್ಜೆಚೆಂ ಗಿ?  
 ಆ) ಖಂಚಾಯ್ ಎಕಾ ಖಾಸ್ತಿ ಪತ್ರಾಚೊ ಉಲ್ಲೇಖ್ ಕರಾ.  
 ಇ) ಕೊಣೆಯ್ ಸಂಪಾದಕಾಕ್ ಪತ್ರ ಬರವ್ಚೆತ್ ಗಿ?  
 ಈ) ವ್ಯವಾಟಾಚೆಂ ಪತ್ರ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?  
 ಅ) ವಿಚಾರಣ್ ಪತ್ರ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

V ಖಂಚಾಯ್ ದೋನ್ ಸವಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ.

(5×2=10)

- ಅ) "ಸಾಂ ಲುವಿಸ್ ಕಾಲೇಜಿಂತ್ ಕೊಂಕ್ಣಿ ಉಪನ್ಯಾಸಕಾಚಿ ಗರ್ಜ್" ಮ್ಹಳ್ಯಾ ಶಿರೋನಾಮಾಖಾಲ್ ಜಾಹೀರಾತ್ ತಯಾರ್ ಕರಾ.  
 ಆ) "ಬಂಗಾರ್ ಮ್ಹನಿಸ್..ಂ." ನಾಟಕಾಚೊ ಪ್ರತಿಯೊ ಜಾಯ್ ಮ್ಹಣ್ ವಿಚಾರ್ಣ್ ಕೊಂಕ್ಣಿ ಸಂಸ್ಕಾಚ್ಯಾ ನಿರ್ದೇಶಕಾಕ್ ಪತ್ರ ಬರಯಾ.  
 ಇ) ಸೂಕ್ತ ಕಾರಣ್ ದೀವ್ನ್ ದೋನ್ ದಿಸಾಂಚಿ ರಜಾ ವಿಚಾರ್ಣ್ ತುಮ್ಮಾ ಸಂಸ್ಕಾಚ್ಯಾ ಪ್ರಾಂಶುಪಾಲಾಕ್ ಪತ್ರ ಬರಯಾ.

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**St Aloysius College (Autonomous)  
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**B.A./B.Sc./B.Com./B.B.A./B.C.A. Semester III- Degree Examination  
November /December – 2023**

**ADDITIONAL ENGLISH  
WORLD LITERATURE – I**

Time: 2½ hrs.

Max Marks: 60

**UNIT - I (PROSE)**

**I. A Answer the following in a word/phrase/sentence each:**

(5x1=5)

1. According to Dr Ambedkar, what teaches the Hindus about religion and castes?
2. Dr Kalam describes \_\_\_\_\_ as the overwhelming and joyous experience of working. (flow, peace, solace)
3. The essay 'The Annihilation of Caste' is written in..... parts by Dr B. R. Ambedkar.
4. According to Swami Vivekananda India will be raised, not with the power of the flesh, but with the power of the \_\_\_\_\_.
5. According to the essay 'The Spirit of Freedom,' the civilization of the West has in it the spirit of the \_\_\_\_\_ which must move.

**B. Answer any FOUR of the following in about 150 words each:**

(4x5=20)

1. What are Dr Ambedkar's perspective on caste system in India? Elucidate.
2. How does the word "freedom" get explicated by Tagore in the essay 'The Spirit of Freedom?' Substantiate.
3. Comment on Swami Vivekananda's views on unity and diversity in India with reference to the essay, 'India: Our Motherland.'
4. How did Swami Vivekananda define the concept of Motherland in the essay 'India: Our Motherland'?
5. What is the significance of the title of the essay 'Work Brings Solace?'
6. How is the notion of caste hierarchy and untouchability gets challenged by Dr Ambedkar in the essay 'The Annihilation of Caste?' explain with reference to the essay.

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**UNIT - II (POETRY)**

**II. Answer any THREE of the following in about 150 words each:**

(3x5=15)

1. Discuss the various literary devices Grenville Kleiser uses in the poem 'Stay Calm' to convey the main idea.
2. According to Rudyard Kipling, what qualities one must possess to be successful in life? Substantiate.
3. Enumerate the concrete instances that the poet presents where we are advised to stay calm. Mention some of the specific life instances presented in the poem, 'Stay Calm.'
4. How does the poem 'Success is Counted Sweetest' explore the idea that success is elusive and precious to those who have felt its absence?

Contd...2



**UNIT - III (NOVEL)****III Answer any ONE of the following in about 250 words:****(1X10=10)**

1. Compare and contrast the character of Juggut Singh and Iqbal, with reference to the novel, *Train to Pakistan*.
2. Discuss the role of religion as a unifying and divisive force with reference to the novel, *Train to Pakistan*. How does it shape the characters' beliefs and actions?
3. Reflect on the ending of the novel *Train to Pakistan*. What message does it convey?

**UNIT - IV (GRAMMAR AND WRITING SKILLS)****IV A. Give one-word substitutes for the following choosing the right word given in the brackets: (5x1=5)**

1. A person who insists on something ST ALOYSIUS COLLEGE LIBRARY  
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  - a) Disciplinarian
  - b) Stickler
  - c) Instantaneous
  - d) Boaster
2. One who possesses many talents
  - a) Versatile
  - b) Nubile
  - c) Exceptional
  - d) Gifted
3. A person pretending to be somebody he is not
  - a) Magician
  - b) Rogue
  - c) Liar
  - d) Imposter
4. For which no salary is paid
  - a) Obsolete
  - b) Honorary
  - c) Illiterate
  - d) None of the above
5. A trite stereotyped expression
  - a) Cliché
  - b) Proverb
  - c) Idiom
  - d) Buzzword

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

Write a dialogue that takes place between two friends discussing the necessity to use cell phones in college campus.

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November / December 2023**

**FRENCH**

**Time: 2½ hrs.**

**Max Marks: 60**

**UNIT - I (PROSE)**

**I. Mettez les verbes au conditionnel. (5x1=5)**

1. Je .....(aimer) voir un film, mais je dois étudier.
2. Si je vais à Touba, je ..... (voir) la osque à Touba.
3. Si tu m'appelais, je .....(venir) tout de suite.
4. Si tu as soif, ..... (boire) de l'eau.
5. S'ils .....(vouloir) du pain, ils me le diraient.

**II. Rapporte des paroles (5x1=5)**

1. «Vous aurez moins de travail. » Elle nous assure \_\_\_\_\_
2. « Aie de la patience ! » La mère dit \_\_\_\_\_
3. « Il a mangé de fruit. » Jean dit \_\_\_\_\_
4. « Alex va faire le tour du monde. » Il dit qu'il \_\_\_\_\_
5. « Où habites-tu ? » Je veux savoir \_\_\_\_\_

**III. Mettez les verbes au voix passive (5x1=5)**

1. Les élèves font les exercice.
2. Les enfants mangent les fruits.
3. Les enfants ramassent les fruits
4. Janet a regardé les dessins animés.
5. 20 septembre, vote de la loi des finances.

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**IV. Mettez les verbes au temps indiquez (5x1=5)**

1. Les élèves \_\_\_\_\_(apprendre, passé composé) les verbes.
2. Nous \_\_\_\_\_ (placer- présent) les livres sur la table.
3. Elle \_\_\_\_\_(découvrir- passé composé) ce petit resto par hasard.
4. Si tu es malade, \_\_\_\_\_ chez le medecin.(aller, futur simple)
5. (Vouloir, présent) \_\_\_\_\_ -tu me prêter ton stylo ?

**V. Répondez aux questions (4x5=20)**

1. Expliquez les 3 monuments historique en France.
2. Discutez l'art Francais.
3. Expliquez l'histoire du cinema français.
4. Expliquez qu'est- ce que vous feriez - si vous ganniez une grosse somme d'argent?

**Contd...2**

**VI. Dialogue****(10x1=10)**

- a) Vous devez faire une activité originale. mais deux entre vous ne sont pas d'accord.

**Ou**

- b) Un(e) ami(e) est parti(e) seul(e) en vacances dans un pays étranger. Elle devait rentrer il y a trois jours. Vous n'arrivez pas à avoir de ses Nouvelles.

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**VII. COMPREHENSION****(5x2=10)**

Si vous appréciez le 7e art, bienvenue en France, le pays qui aime le cinéma ! Eh oui, le cinéma est né en France, il y a maintenant plus de 100 ans : les frères Lumière, des Lyonnais, projettent le premier film en public en 1895. Aujourd'hui encore, le cinéma tient une place à part dans le cœur des Français. Il faut dire que les films Français offrent une très grande diversité : des comédies aux films de genre en passant par les films d'auteur et les films historiques, tout le monde est sûr de trouver quelque chose qui l'intéresse ! Bien sûr, il y a les réalisateurs confirmés comme Claude Chabrol, Alain Resnais, Bertrand Tavernier, Claude Lelouch et Luc Besson entre autres mais la nouvelle génération de cinéastes (Arnaud Desplechin, Cédric Klapisch, François Ozon, Robert Guédiguian) propose actuellement des films très personnels et qui connaissent beaucoup de succès. N'oublions pas non plus la nouvelle tendance : la féminisation de la profession avec Laetitia Masson, Agnès Jaoui, Tonie Marshall, Danièle Thompson et Zabou Breitman : une génération qui porte un regard bien particulier sur la réalité sociale et les relations humaines. En 2008, près de 36 millions de Français ont fréquenté les salles obscures et il y a aussi très nombreux à aller dans les festivals de cinéma que compte la France. À côté du Festival de Cannes qui n'est plus à présenter, il existe d'autres festivals plus spécialisés dans un genre qui font le bonheur des cinéphiles : le festival du film américain de Deauville, le festival du film de comédie de l'Alpe d'Huez, le festival du film policier de Cognac par exemple. Autre preuve que les Français aiment leurs acteurs et actrices ? La cérémonie des Césars, qui récompense les meilleurs films et professionnels, est très suivie à la télévision. Et que dire de la très populaire Fête du cinéma qui permet chaque année à des milliers de personnes de profiter du grand écran à un prix intéressant ? Enfin, le cinéma français s'exporte aussi très bien, particulièrement les films d'animation qui sont maintenant reconnus sur le plan international.

1. Qui est à l'origine du cinéma ?
2. Citez trois réalisateurs connus depuis longtemps par les Français.
3. De quels thèmes parlent les films faits par des réalisatrices ?
4. Donnez deux genres de film qui sont célèbres dans un festival ?
5. Quelle fête permet aux spectateurs d'aller voir des films pour pas cher ?

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November/December - 2023**

**MALAYALAM**

Time: 2½ hrs.

Max Marks:60

- I. മുനെണ്ണത്തിന് സന്ദർഭവും സാരസ്യവും എഴുതുക (3x4=12)**
1. ആരു നീയനുജത്തി? നിർന്നിമേഷമായൊന്തെൻ-  
തേരുപോകവേ നേരെ നോക്കി നില്ക്കുന്നു ദൂരെ?
  2. ചടുലോല്പലദളയുഗളം ചൂടി-  
ചന്ദ്രിക പെണ്ണു നിൻവദനം..
  3. നിഴൽപോൽമറഞ്ഞു നീയെന്നിലുറിക്കൂടി-അഴലോ  
നിശ്ശൂന്യതാബോധമോ നിർവേധമോ?
- II. മുനെണ്ണത്തിന് കുറിപ്പു തയ്യാറാക്കുക (3x4=12)**
4. ആംസ്റ്റർഡാമിലെ നഗരകാഴ്ച
  5. ലാഹ്ത്തി നഗരം
  6. ഫിൻലാൻറിലെ വിവാഹപ്രശ്നം
- III. ഒരെണ്ണത്തിന് രണ്ടുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x10=10)**
7. മനസിനി എന്ന കവിതയിൽ കവി ഭാര്യയെ  
വർണ്ണിച്ചിരിക്കുന്നതെപ്രകാരം?
  8. സൂര്യകാന്തിപ്പൂവ് സൂര്യനോട്  
പറയാനാഗ്രഹിച്ചതെന്തൊക്കെയായിരുന്നു?
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- IV. ഒരെണ്ണത്തിന് രണ്ടുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x10=10)**
9. ഫിൻലാൻറിലെ ഭൂപ്രകൃതിയെക്കുറിച്ചും  
കാലാവസ്ഥയെക്കുറിച്ചും എസ്.കെ വിവരിക്കുന്നതെപ്രകാരം ?
  10. എസ്.കെ യുടെ വർണ്ണനാചാര്യരും "പാതിരാസൂര്യന്റെ നാട്ടിൽ"  
എന്ന കൃതിയെ ആസ്പദമാക്കി വിവരിക്കുക
- V. ഒരെണ്ണത്തിന് രണ്ടുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക**
11. മനസ്സിൽ രൂപം കൊണ്ട പ്രണയത്തിനുമുകളിൽ കാലത്തിന് ഒരു  
കൊത്തുവേലയും ചെയ്യാനാകില്ലെന്ന് വായനക്കാരെ  
ബോധ്യപ്പെടുത്തുന്ന കൃതിയാണ് വാനപ്രസ്ഥം-സമർത്ഥിക്കുക (1x10=10)
  12. ഉത്തരം കിട്ടാത്ത ഒരു പ്രഹേളികയാണ് മനുഷ്യമനസ്സ്-  
വാനപ്രസ്ഥത്തിലെ മാസ്റ്റർ, വിനോദിനി ഇവരുടെ  
മാനസ്സികവസ്ഥയെ വിലയിരുത്തിക്കൊണ്ട് സമർത്ഥിക്കുക
- VI. നിവേദനം തയ്യാറാക്കുക (1x6=6)**
13. നാട്ടിലെ തെരുവുനായ്ക്കളുടെ ശല്യത്തിനെതിരെ നടപടി  
സ്വീകരിക്കണമെന്നാവിശ്യപ്പെട്ടു കൊണ്ട് ബന്ധപ്പെട്ട  
അധികാരികൾക്ക് ഒരു നിവേദനം തയ്യാറാക്കുക

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(2019 batch onwards)

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Reg. No.

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

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

**FOUNDATION COURSE IN GENDER EQUITY AND VALUE EDUCATION**

Time: 2 Hrs.

Max Marks: 50

**I. Answer any FIVE of the following questions in just one sentence each. (5×1=5)**

1. Define sex ratio  
ಲಿಂಗ ಅನುಪಾತವನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ
2. Difference between gender role and gender stereotype  
ಸಾಮಾಜಿಕ ಲಿಂಗ ಪಾತ್ರ ಮತ್ತು ಲಿಂಗಪಡಿಯಚ್ಚುಗಳ (ಸ್ವೀರಿಯೊಟೈಪ್) ನಡುವಿನ ವ್ಯತ್ಯಾಸ.
3. What is the need for gender sensitization?  
ಲಿಂಗ ಸಂವೇದನೆಯ ಅಗತ್ಯವೇನು?
4. Difference between sex and gender  
ಜೈವಿಕ ಲಿಂಗ ಮತ್ತು ಸಾಮಾಜಿಕ ಲಿಂಗದ ನಡುವಿನ ವ್ಯತ್ಯಾಸ.
5. Who is the chairperson of the national commission for women?  
ರಾಷ್ಟ್ರೀಯ ಮಹಿಳಾ ಆಯೋಗದ ಅಧ್ಯಕ್ಷರು ಯಾರು?
6. What is wife battering?  
ಪತ್ನಿ ಪೀಡನೆ ಎಂದರೇನು?
7. What is mortality?  
ಮೃತ್ಯುತಾ ದರ ವ್ಯವಿಕೆ ಎಂದರೇನು?

**II. Answer any FIVE of the following questions in about two sentences each. (5×2=10)**

8. What is honour Killing?  
ಮರ್ಯಾದಾ ಹತ್ಯೆ ಎಂದರೇನು?
9. Mention the offences related to marriage  
ವಿವಾಹಕ್ಕೆ ಸಂಬಂಧಿತ ಅಪರಾಧಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿ.
10. What is gender division of labour?  
ಕಾರ್ಮಿಕರ ಲಿಂಗ ವಿಭಜನೆ ಎಂದರೇನು?
11. Mention the factors affecting maternal mortality  
ಮಾತೃ ಮರಣದ ಮೇಲೆ ಪರಿಣಾಮ ಬೀರುವ ಅಂಶಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿ.
12. What is the difference between patriarchy and matriarchy?  
ಪಿತೃಪ್ರಭುತ್ವ ಮತ್ತು ಮಾತೃಪ್ರಧಾನತೆಯ ನಡುವಿನ ವ್ಯತ್ಯಾಸವೇನು?
13. What is the difference between masculinity and Femininity?  
ಪುರುಷತ್ವ ಮತ್ತು ಸ್ತ್ರೀತನ ದ ನಡುವಿನ ವ್ಯತ್ಯಾಸವೇನು?
14. Mention some of the laws protecting the rights of women  
ಮಹಿಳೆಯರ ಹಕ್ಕುಗಳನ್ನು ರಕ್ಷಿಸುವ ಕೆಲವು ಕಾನೂನುಗಳನ್ನು ಉಲ್ಲೇಖಿಸಿ.

Contd....2

**III. Answer any TWO of the following questions in 20 lines each. (2x10=20)**

15. Write a note on the types of violence against women and the initiatives taken by the government to protect women against violence

ಮಹಿಳೆಯರ ಮೇಲಿನ ದೌರ್ಜನ್ಯದ ಪ್ರಕಾರಗಳು ಮತ್ತು ದೌರ್ಜನ್ಯದ ವಿರುದ್ಧ ಮಹಿಳೆಯರನ್ನು ರಕ್ಷಿಸಲು ಸರ್ಕಾರವು ಕೈಗೊಂಡ ಉಪಕ್ರಮಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

16. Describe the status of women in India.

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ಭಾರತದಲ್ಲಿ ಮಹಿಳೆಯರ ಸ್ಥಿತಿಯನ್ನು ವಿವರಿಸಿ.

17. What are the initiatives taken by the government to protect the rights of the girl child

ಹೆಣ್ಣು ಮಕ್ಕಳ ಹಕ್ಕುಗಳ ರಕ್ಷಣೆಗೆ ಸರ್ಕಾರ ಕೈಗೊಂಡಿರುವ ಉಪಕ್ರಮಗಳೇನು?

18. Discuss the important functions of the national commission for women

ರಾಷ್ಟ್ರೀಯ ಮಹಿಳಾ ಆಯೋಗದ ಪ್ರಮುಖ ಕಾರ್ಯಗಳನ್ನು ಚರ್ಚಿಸಿ

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

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಒಂದು ಪುಟಕ್ಕೆ ಮೀರದಂತೆ ಬರೆಯಿರಿ.

19. Explain the areas factors to consider for accomplish partner during marriage.

ಮದುವೆಯ ಸಮಯದಲ್ಲಿ ಹೊಂದಣಿಕೆಯ ಸಂಗತಿಗಾಗಿ ಪರಿಗಣಿಸಬೇಕಾದ ಅಂಶಗಳಾವುವು?

20. Explain the characteristics of a functional family.

ಕ್ರಿಯಾತ್ಮಕ ಕುಟುಂಬದ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.

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

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ ಎರಡು ಪುಟಕ್ಕೆ ಮೀರದಂತೆ ಬರೆಯಿರಿ.

21. Explain the permanent faming planning methods and its advantages.

ಶಾಶ್ವತ ಕುಟುಂಬ ಯೋಜನೆಯ ವಿಧಾನಗಳನ್ನು ವಿವರಿಸಿರಿ ಹಾಗೂ ಅದರ ಅನುಕೂಲಗಳನ್ನು ವಿವರಿಸಿರಿ.

22. Explain the factors that help in building a healthy families.

ಆರೋಗ್ಯಕರ ಕುಟುಂಬವನ್ನು ನಿರ್ಮಿಸಲು ಸಹಾಯಕವಾಗಿರುವ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿರಿ.

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