

(2021 Batch Onwards)

G 501 DC1.3

Reg. No. :

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester III – Degree Examination
December - 2022
PHYSICS
WAVES AND OPTICS

Time: 2½ hrs.

Max Marks: 60

SECTION – A

Answer any **FOUR** of the following.

(4×2=8)

1. a) On what factors does the natural frequency of a vibrating body depend?
- b) Give an expression for the velocity of sound in a solid and explain the terms.
- c) When are stationary waves formed?
- d) What are coherent sources?
- e) How is a zone plate constructed?
- f) What is double refraction?

SECTION – B

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

(4×10=40)

UNIT-I

- 2.a) Set up the equation for a progressive wave in exponential form and hence obtain the differential equation of wave motion. (6)
- b) Deduce Newton's formula for velocity of sound in air. (4)
- 3.a) Assuming an expression for the velocity of longitudinal waves in a fluid, deduce Newton's formula for the velocity of sound in air and apply Laplace correction to it. (6)
- b) Set up the equation for damped oscillations of a vibrating body and discuss the solution of the equation. (4)

UNIT-II

- 4.a) Assuming the expression for the velocity of transverse waves in a stretched string, determine the frequency of vibration and discuss the formation of different harmonics. (6)
- b) What is the nature of vibration in the air column? Explain with an example. (4)
- 5.a) Derive an expression for frequency of vibration of a stretched string fixed at both ends and hence give the laws of transverse vibrations of stretched strings. (6)
- b) What is a Helmholtz resonator? Give examples of resonators that are similar to a Helmholtz resonator. (4)

Contd...2

UNIT-III

- 6.a) Give the theory of Newton's rings and obtain an expression for the diameter of the rings. (6)
- b) Explain why a thin film appears colored when viewed in reflected light. (4)
- 7.a) Derive an expression for fringe width in case of Young's double slit experiment. (6)
- b) Derive an expression for the path difference produced when two monochromatic light rays are reflected from a thin transparent film. (4)

UNIT-IV

- 8.a) What is a zone plate? Derive an expression for the radius of n^{th} zone and also obtain the expression for the focal length of a zone plate. (6)
- b) Compare a zone plate and a convex lens. (4)
- 9.a) Discuss analytically the production of different types of polarized light. (6)
- b) Give the theory of plane diffraction grating for oblique incidence. (4)

SECTION -C

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

10. A stone is dropped into a well of depth of 90 m. If the splash of water is heard after 4 seconds, calculate the velocity of sound in air. Given $g = 9.8 \text{ m/s}^2$.
11. A mass of 1 Kg when suspended through a spring is displaced by 0.3 m. Find the force constant of the spring. If the mass is further displaced downwards by an additional 6 cm and released. Calculate the time period of oscillation. Given $g = 9.8 \text{ m/s}^2$.
12. In a Newton's ring experiment, the diameter of the 20th dark ring was found to be 0.61 cm and that of the 10th ring was 0.345 cm. If the radius of curvature of the Plano-convex lens was 1 m, find the wavelength of the light used.
13. A plane transmission grating having 15,000 lines per inch is used to obtain a spectrum of light from a sodium lamp in the second order. Calculate the angular separation between the two sodium lines whose wavelengths are 589 nm and 589.6 nm respectively for normal incidence.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

December - 2022

CHEMISTRY

Time: 2½ hrs.

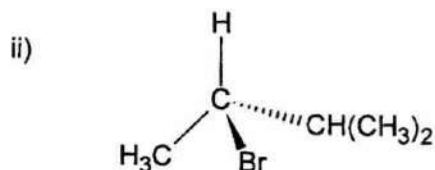
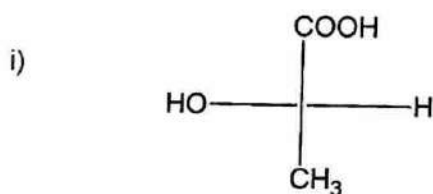
Max Marks: 60

- 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) State Beer's law.
b) Mention any two oxidants used in flame photometry.
c) Define R_f value.
d) State Nernst distribution law.
e) Write the structure of anthracene.
f) Give the reaction of aldol condensation.
g) What are chiral molecules?
h) Assign R&S configuration of the following compounds,



PART - B

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

2. (i) A solution of thickness 2 cm transmits 40% incident light. Calculate the concentration of the solution. Given the molar extinction coefficient, is $6000 \text{ dm}^3/\text{mol}/\text{cm}$
(ii) Mention any three applications of flame photometry.
(iii) How phosphate is determined by the nephelometric method?
(iv) Explain the applications of ion exchange chromatography in water softening.
(v) How chromatography techniques are classified? Give examples.
(vi) How do you convert naphthalene into phthalic acid?
(vii) Give the mechanism of Dienone-phenol rearrangement.
(viii) How kinetic study helps to determine the reaction mechanism?

Contd...2

- (ix) Explain optical isomerism in lactic acid.
- (x) Explain geometric isomerism in oximes.

PART - C

Answer any SEVEN of the following questions.

(4×7=28)

3. With a neat labeled diagram explain the instrumentation of a flame photometry.
4. Derive Beer-Lambert's Law and write its limitations.
5. Explain the instrumentation of turbidimetry with neat labeled diagram.
6. Give thermodynamic derivation of Nernst distribution law.
7. Explain thin-layer chromatography with suitable examples.
8. Describe Haworth's synthesis of naphthalene.
9. Give the mechanism of Reimer-Tiemann reaction.
10. Explain the chair form of cyclohexane.
11. Explain any two methods of resolution of racemic mixture.

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**St Aloysius College (Autonomous)
Mangaluru**

**B.Sc. Semester III – Degree Examination
December - 2022**

MATHEMATICS

ORDINARY DIFFERENTIAL EQUATIONS AND REAL ANALYSIS-I

Time: $2\frac{1}{2}$ hrs.

Max Marks: 60

PART-A

Answer any **SIX** of the following:

(6 X 2 = 12)

1. Verify whether the given differential equation $(4x + 6y + 5)dy - (3y + 2x + 4)dx = 0$ is homogenous.
2. Find the integrating factor of $\frac{dy}{dx} - \frac{3y}{x+1} = (x + 1)^4$.
3. Find the complementary function of $\frac{d^3y}{dx^3} + 2\frac{d^2y}{dx^2} - \frac{dy}{dx} - 2y = 0$.
4. Transform $x^2 \frac{d^2y}{dx^2} - 3x \frac{dy}{dx} + 4y = 2x^2$ into linear differential equation with constant coefficients.
5. Represent the sequence $\{\frac{1}{2^n}\}$ graphically.
6. State Comparison test.
7. Determine whether the series $\sum_{n=2}^{\infty} (-1)^n \frac{1}{\log n}$ is convergent or divergent.
8. State Root test.

PART- B

UNIT- I

Answer any **TWO** of the following:

(2x6=12)

1. a) Solve: $e^y dx + (2y + xe^y)dy = 0$. (3)
b) Solve: $\frac{dy}{dx} = xy^2$. (3)
2. a) Solve: $(x^2 + y^2)dx - xydy = 0$. (4)
b) Solve: $(x^3y^3 + 1)dx + (x^4y^2)dy = 0$. (2)
3. Solve: $\frac{dy}{dx} = \frac{1}{1+x^3} - (\frac{3x^2}{1+x^3})y$.

Contd....2

UNIT- II**Answer any TWO of the following:****(2X6 =12)**

1. Solve: $(D^3 + 8)y = x^4 + 2x + 1 + e^{-3x}$.
2. Solve: $(D^2 + 3D + 2)y = 2\sin^2 x$.
3. Solve: $(x^2 D^2 - 2xD - 4)y = 32(\log x)^2$.

UNIT- III**Answer any TWO of the following:****(2X6 =12)**

1. a) Using $\epsilon - N$ definition of convergence, prove that the sequence $\left\{\frac{8n}{2n+9}\right\}$ converges to 4. **(4)**
 b) Prove that $\left\{n \sin \frac{\pi}{n}\right\}$ is convergent and find the limit of the sequence. **(2)**
2. If $|r| < 1$, then prove that the sequence $\{r^n\}$ converges to zero.
3. a) Determine if the series $\sum_{n=1}^{\infty} (-1)^{n+1} e^{-n}$ is convergent or divergent. If convergent, find the sum. **(3)**
 b) Determine if the series $\sum_{n=2}^{\infty} \frac{1}{n\sqrt{\log n}}$ is convergent. **(3)**

UNIT- IV**Answer any TWO of the following:****(2X6 =12)**

1. Test the convergence of the following series.
 - a) $\sum_{n=1}^{\infty} (-1)^n \frac{3}{n^2+1}$
 - b) $\sum_{n=1}^{\infty} \frac{\cos \frac{n\pi}{3}}{n^2}$.
2. State and prove Ratio test.
3. Determine whether the following series are convergent or divergent.
 - a) $\sum_{n=1}^{\infty} \frac{1.3.5 \dots (2n-1)}{1.4.7 \dots (3n-2)}$.
 - b) $\sum_{n=1}^{\infty} (-1)^n \frac{1}{[\log(n+1)]^n}$.

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**St Aloysius College (Autonomous)
Mangaluru**

**B.Sc. Semester III – Degree Examination
December -2022**

ELECTRONICS

**Power control, Oscillators, wave shaping circuits, Principle of Radio
Communication and Digital Circuits**

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) _____ is one semiconductor device that allows the current in both directions.
a) SCR b) Diode c) DIAC d) All of these
- (ii) The efficiency of a power amplifier is 50% implies _____
a) only 50% of the DC input power is converted as AC output power.
b) only 50% of the DC input power is converted as DC output power
c) only 50% of the AC input power is converted as AC output power
d) only 50% of the AC input power is converted as DC output power
- (iii) For an oscillator, the loop gain must be _____
a) $A\beta=0$ b) $A\beta<1$ c) $A\beta=1$ d) $A\beta>100$
- (iv) The voltage across each $5k\Omega$ resistor in a 555 timer powered with 5V is _____
a) $5V, \frac{10}{3}V, \frac{5}{3}V$ b) $\frac{5}{3}V, \frac{5}{3}V, \frac{5}{3}V$
c) $5V, \frac{5}{2}V, \frac{5}{4}V$ d) $5V, \frac{5}{2}V, \frac{5}{3}V$
- (v) If the frequency of a modulating signal is 5kHz, then the bandwidth required in AM is _____
a) 5kHz b) 10kHz c) 15kHz d) 10kHz
- (vi) To serially shift a byte of data in to a shift register, there must be ____
a) one clock pulse b) one load pulse
c) 8 clock pulses d) one clock pulse for each 1 in the data

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

- (i) Write the circuit symbol of a TRIAC.
- (ii) Mention one advantage of LC oscillators over RC oscillators
- (iii) Give the expression for modulation index in terms of maximum and minimum amplitudes of AM wave.
- (iv) Draw the circuit diagram of a positive Clamper.
- (v) Why are the asynchronous counters called ripple counters?

Contd...2

- (vi) Mention any two characteristics of memory.
- (vii) Mention one advantage of inductive load power amplifier.
- (viii) What is a voltage limiter?

3. Answer any SIX questions.

(6x2=12)

- (i) Draw the forward and reverse characteristics of a DIAC
- (ii) Explain the classification of power amplifiers based on the placement of Q point of the transistor.
- (iii) Calculate the frequency of oscillations of a phase shift oscillator that uses $R=10k\Omega$ and $C=0.01\mu F$ in the feedback network.
- (iv) Draw the circuit diagram of non-inverting comparator and hence draw the output waveform.
- (v) Calculate the sideband power of an AM wave if the total carrier power is 1kW and the carrier is 60% modulated.
- (vi) Draw the circuit diagram of an Instrumentation amplifier using op-amp.
- (vii) Mention the different types of ROM.
- (viii) What is a counter? Mention the modulus of a counter that counts from 0 to 12.

SECTION – B

4. Answer any FOUR questions.

(4x4=16)

- (i) With circuit diagram explain power control using TRIAC.
- (ii) In a Colpitts oscillator, $C_1 = 0.001\mu F$, $C_2 = 0.01 \mu F$ and $L = 10\mu H$. Find the frequency of oscillation, voltage gain and feedback factor.
- (iii) Derive the expression for the relation between total power and carrier power of an Amplitude modulated wave.
- (iv) With a circuit diagram and waveform explain the working of a Non-inverting comparator.
- (v) Explain the READ operation in 4X4 bit diode ROM.
- (vi) Write a note on fixed voltage regulators.

5. Answer any Four questions:

(5x4=20)

- i) Draw the circuit of an inductive load class A power amplifier and show that its maximum efficiency is 50%.
- ii) With circuit diagram explain the working of a Monostable multivibrator.
- iii) With a circuit diagram explain a Hartley oscillator.
- iv) Explain a mod-10 asynchronous counter using T flip-flops.
- v) With the help of a circuit explain the read and write operations in a bipolar transistor memory cell.
- vi) With a circuit diagram and waveform explain the working of a Schmitt trigger using op-amp. Hence give the equations for UTP and LTP.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

December - 2022

COMPUTER SCIENCE - III

Object Oriented Programming Concepts and Programming in JAVA

Time: 2 ½ Hours.

Max Marks: 60

PART -A

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

(6x2=12)

- How to declare variable? Give syntax and example.
- Differentiate between while and do while loop.
- What are classes and objects?
- What is the use of finalize() method in Java?
- What is an exception? Write syntax of try.. catch block.
- What is an applet?
- List different types of JDBC drivers.
- What is method overriding?

PART -B

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

(4x12=48)

UNIT - I

- List and explain different features of Java. **(4)**
 - Explain for loop with syntax and suitable example. **(4)**
 - Explain the use of command-line arguments in Java with suitable example. **(4)**
- Explain the different types of operators available in Java. **(4)**
 - What is a data type? Explain different types of data types with example. **(4)**
 - Explain switch statement with suitable example. **(4)**

UNIT - II

- What are constructors? Explain the use of Constructors with suitable example. **(4)**
 - Explain visibility modifier in Java. **(4)**
 - Explain single inheritance with suitable example. **(4)**
- Explain string Buffer methods in Java. **(4)**
 - What is vector? Explain any three methods in vector. **(4)**
 - Explain various forms of interface implementation. **(4)**

UNIT – III

- 6. a) Write a note on AWT containers and components. (4)
- b) List and explain any six methods defined by Applet. (4)
- c) Explain exception handling in Java with suitable example. (4)

- 7. a) Write a note on layout managers. (4)
- b) With a neat diagram explain life cycle of applet. (4)
- c) Explain how to create user defined exceptions in Java with example. (4)

UNIT – IV

- 8. a) Explain thread life cycle with neat diagram. (4)
- b) Explain components of JDBC. (4)
- c) Write a JDBC program to retrieve information from student database with fields stname, regno, marks of 3 subjects. (4)

- 9. a) List and explain any five thread methods. (4)
- b) Write a note on RMI (Remote method invocation). (4)
- c) Explain different types of JDBC Driver Types. (4)

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St Aloysius College (Autonomous)

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B.Sc. - Semester III

December - 2022

STATISTICS

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. Mention the properties of Maxima and Minima.
2. If x is a rectangular variate (a, b) . Find the median.
3. Write the moment generating function of Gama Distribution.
4. State weak law of large numbers
5. State Chebychev's inequality.
6. What is the purpose of a sampling distribution?
7. Define Montecarlo Simulation.

PART - B

II. Answer any FIVE of the following.

(6x5=30)

8. Find the points of maxima and minima of the function
 $f(x) = 3x^4 + 4x^3 - 12x^2 + 12$.
9. Evaluate (i) $\int_0^1 x^2(1-x)^3 dx$ (ii) $\int_0^\infty e^{-\frac{1}{2}x} x^3 dx$
10. Derive the mean variance of Beta distribution of second kind.
11. Derive the mode of Chi square distribution.
12. Derive the Harmonic mean of Beta distribution of first kind.
13. Find the mean and variance of Weibull distribution with parameters α and c .
14. Briefly explain the procedure to generate random observations from Exponential distribution.

PART - C

III. Answer any TWO of the following.

(10x2=20)

15. Derive the recurrence relation for moments of Gamma distribution and hence find mean and variance.
16. Derive the pdf of Chi square distribution and hence find mean and variance.
17. Derive the mean and variance of F distribution.

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B.Sc. Semester III– Degree Examination

December - 2022

BOTANY

PLANT ANATOMY AND DEVELOPMENTAL BIOLOGY

Time: 2½ 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) Name the living component of xylem and nonliving component of phloem.
- 2) Enlist two applications of anatomy in systematics.
- 3) Mention any two contributions of K R Shivanna.
- 4) What is triple fusion? Mention its significance.
- 5) List out two anatomical differences between monocot and dicot leaves.
- 6) What is collateral and closed vascular bundle? Give an example.
- 7) Name any two variations in leaf shape, mentioning one example for each.
- 8) Differentiate vegetative meristem from reproductive meristem.

SECTION – B

II Answer any SIX of the following.

(6x5=30)

- 1) Explain the structure and distribution of Living mechanical tissue.
- 2) Write a note on structure and functions of Root Apical Meristem.
- 3) Explain the internal structure of young dicot root with a neat and labelled diagram.
- 4) Write a note on nodal anatomy of dicot stem.
- 5) Give an account of Ultrastructure of meristems.
- 6) Explain differentiation and cell polarity in *Acetabularia*.
- 7) Explain the structure of Angiosperm ovule.
- 8) Write a note on Post fertilization changes.

SECTION – C

III Answer any TWO of the following.

(2x10=20)

- 1) Explain Stomatal types with neat labelled diagrams.
- 2) Describe the structure, distribution, types and functions of Parenchyma.
- 3) Describe the Polygonum type of embryo sac development with suitable sketches.
- 4) Write explanatory note on ABC model specification of floral organs.

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St Aloysius College (Autonomous)

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B.Sc. Semester III – Degree Examination

December - 2022

ZOOLOGY-III

**MOLECULAR BIOLOGY, BIOINSTRUMENTATION AND
TECHNIQUES IN BIOLOGY**

Time: 2½ Hours

Max. Marks: 60

Note: 1. Answer all questions. 2. Draw diagrams wherever necessary.

PART - A

I. Answer any TEN of the following. (2X10=20)

1. Write any four characteristic features of genetic code.
2. What are RNA polymerases?
3. Write a note on the central dogma in molecular biology.
4. What is RNA editing? Give an example.
5. Define Gene silencing. Where does it occur?
6. Name three post transcriptional modifications.
7. Mention the principle of Confocal microscope.
8. Expand GLC and HPLC.
9. Give the applications of ultracentrifugation.
10. Mention the two differences between colorimeter and spectrophotometer.
11. What is DNA sequencing? Mention one of its applications.
12. What is PCR? Mention two of its applications.

PART - B

II. Answer any FOUR questions. (5X4=20)

1. Write a note on cistron, recon and muton.
2. Describe trp-operons in *E. coli*.
3. Explain the intracellular protein degradation.
4. Write the applications of phase contrast microscope.
5. How to prepare 1M of 750ml of H₂SO₄. (Density/ specific gravity=1.8; 95%)
6. Give an explanatory note on SDS-PAGE.

PART - C

III. Answer any TWO questions. (10X2=20)

1. With neat diagram explain the process of translation in eukaryotes.
2. Write explanatory notes on regulation of gene expression in eukaryotes.
3. Describe paper and thin layer chromatography with neat labelled diagrams.
4. Explain the principle, procedure and applications of ELISA.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

December - 2022

MICROBIOLOGY

MICROBIAL DIVERSITY

Time: 2½ Hours.

Max Marks: 60

Instructions: Answer PART A AND B AND C

Draw Diagrams wherever necessary.

PART – A

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

(2x10=20)

- a) Numerical taxonomy
- b) Bergey's Manual of Systematic Bacteriology
- c) Scytonema
- d) Spore dispersal
- e) Quadri-nucleate cyst
- f) Name two antibiotics from Actinomycetes
- g) Icosahedral Capsids
- h) Virusoides
- i) Continuous cell culture of viruses
- j) Chlamydo-spores
- k) Mycoplasma
- l) Biodiversity

PART – B

Answer 'a' or 'b' from each unit.

(5x4=20)

UNIT -I

2. a) What are the various levels of diversity?

(5)

OR

b) Give the five kingdom classification systems.

UNIT -II

3. a) List out similarities between Cyanobacteria and Bacteria.

(5)

OR

b) Describe the general characters of Rickettsia.

UNIT -III

4. a) Explain the life cycle of *Trichomonas vaginalis*.

(5)

OR

b) Write a note on the morphological forms of Plasmodium seen in humans.

UNIT -IV

5. a) Elaborate on cultivation of viruses by chick embryo technique.

(5)

OR

b) Discuss one-step growth curve of viruses.

PART – C

Answer any TWO of the following.

(10x2=20)

6. a) Discuss lytic and lysogenic cycle in viruses.
6. b) Discuss morphology and life cycle of *Entamoeba histolytica*.
6. c) Explain in detail the sexual reproduction in *Penicillium*.

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester III – Degree Examination
December - 2022
BIOCHEMISTRY
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)
- What is heterolysis? Give one example.
 - Write the structure of imidazole.
 - What are the effects of avidin?
 - Give Schiff base reaction.
 - What is CPPP? Write its structure.
 - Write the structure of phytol.
 - What are dihydric alcohols? Give one example.

PART – B

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

- Explain the formation and stability of carbocations.
- Discuss basicity of amines.
- Explain the S_N2 mechanism in detail.
- Give the structure and physiological action of nicotine.
- Explain the role of Thiamine pyrophosphate in decarboxylation reaction.
- Write a note on Anti-nutrition factors.

PART – C

Answer any **THREE** of the following: (10×3=30)

- Write the structure and importance of thiazole and quinoline.
 - Give the reactions of amines with HNO₂. (6+4)
- Explain the oxidation and reduction reaction of Alcohols.
 - Give the distinguishing tests for amines. (5+5)
- Write the structure and biological importance of camphor and lanosterol.
 - Explain the structure and importance of cholesterol. (6+4)
- Discuss on the classification of Alcohols.
 - Explain the mechanism of S_N1 reaction with a suitable example. (5+5)
- Define aromaticity. Write the criteria for aromaticity.
 - Distinguish between neutrophiles and electrophiles. (5+5)

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St Aloysius College (Autonomous)

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B.Sc. Semester III – Degree Examination

December - 2022

BIOTECHNOLOGY

BIOMOLECULES

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:

(5×2=10)

- Define enantiomers with an example
- What is glycogenolysis?
- Why glycolipids are called cerebrosides?
- What is meant by acid number and saponification?
- Define aromatic amino acids with an example
- What is proteomics and why is it important?
- Define Chargaff's rule
- What is gout? Mention its two symptoms

PART - B

Answer any SIX of the following:

(6×5=30)

- Explain the structure and functions of glycogen.
- Differentiate between saturated and unsaturated fatty acids? Give two examples of each.
- Give a detailed note on phenylketonuria
- Explain classifications of proteins
- Give a note on RNA and its types
- Explain what are reducing and non-reducing sugars?
- Explain the structure and properties of HDL
- How is SCID disease caused explain?

PART - C

Answer any TWO of the following:

(2×10=20)

- Give a detailed account of the mitochondrial electron transport chain
- What is β -oxidation? Explain the β -oxidation of palmitic acid
- Explain the salvage pathway of purine synthesis
- Describe the primary and secondary structure of protein

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St Aloysius College (Autonomous)

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

December - 2022

COMPUTER ANIMATION - III

VISUAL EFFECTS

Time: 2½ hrs.

Max Marks: 60

PART - A

Answer any FIVE of the following.

(5x2=10)

1. a) What is VFX?
- b) Explain about continuity.
- c) Define Rotoscoping.
- d) What is HD quality video size and aspect ratio?
- e) Write down the different video export format in AE.
- f) Differentiate transform and transition.

PART - B

Answer any FOUR of the following.

(4x5=20)

2. Explain steps to create Motion Graphics.
3. What is Tape to Tape and digital editing?
4. Explain AE work panels.
5. What is the difference between video editing and VFX?
6. Briefly explain about keying.

PART - C

Answer any THREE of the following:

(3x10=30)

7. Explain over view of the layers in After Effects.
8. Explain the techniques to improve After Effects performance.
9. Write a note on cameras in AE.
10. Explain the difference between video editing and VFX

(2021 batch onwards)

G 513 DC1.3

Reg. No.:

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St Aloysius College (Autonomous)

Mangaluru

B.Sc.- SEMESTER III –Degree Examination

December - 2022

ECONOMICS

MICRO ECONOMICS II

Time: 2 ½ hrs

Max. Marks: 60

SECTION - A

I. Answer any FIVE of the following:

(5×2=10)

1. Who coined the term micro economics?
2. Give the meaning of partial and general equilibrium?
3. Who is an economist?
4. What is distribution in Economics?
5. State the uncertainty theory of profit.
6. What is price leadership?
7. What is cartel?
8. What is asymmetric information?

SECTION - B

II. Answer any SIX of the following:

(6×5=30)

9. What are the uses of micro economics?
10. Explain the stable and unstable equilibrium.
11. Write a note on circular flow of economic activities.
12. Write a note on functional and personal distribution of income.
13. Write a note on theory of quasi rent.
14. Explain marginal productivity theory of wages.
15. Explain risk theory of profit.
16. Write a note on kinked demand curve.
17. Write a note on the efficient market hypothesis.

SECTION - C

III. Answer any TWO of the following:

(2×10=20)

18. Explain the nature, scope and limitations of micro economics.
19. Explain Ricardian theory of rent.
20. Explain Keynesian liquidity preference theory of interest.
21. Explain Cournot's oligopoly model.

(2021 Batch Onwards)

G 513 DC2.3

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. – SEMESTER III – Degree Examination

December - 2022

ECONOMICS –III (b)

BASIC ECONOMETRICS

Time: 2½ hrs.

Max Marks: 60

Note: Graph Sheets and Econometrics log will be provided.

PART - A

Answer any FIVE of the following.

(5×2=10)

1. Distinguish between mathematics and econometrics.
2. What do you mean by Adjusted R^2 ?
3. List out any four importance of stochastic term.
4. What is GQ test?
5. Define autocorrelation.
6. What is MLRM?
7. What do you mean by multicollinearity?
8. Write the procedure of SPSS to find VIF.

PART - B

Answer any SIX of the following.

(6×5=30)

9. Briefly explain the goals of Econometrics.
10. Prove that $TSS = ESS + RSS$

11.

Y	X
8	4
6	2
5	3
7	1
4	2

Find out the parameters from the above table using OLS & Cramer's rule method.

12. Prove that $\hat{\beta}_1 \sim N [\beta_1, \sigma^2 \cdot \frac{\sum X^2}{n \sum x_i^2}]$
13. Explain the procedure to find regression estimators using WLS method in SPSS.
14. Prove that $d \sim 2(1 - \rho)$
15. Briefly explain the assumptions of multiple regression linear model.
16. Explain the consequences and remedial measures to avoid multicollinearity.
17. Write a note on non-linear equations.

Contd...2

PART – C

Answer any **TWO** of the following.

(2×10=20)

18.

Output	Total Cost
1	125
2	140
3	150
4	160
5	180
6	210

A) Test the following hypothesis $H_0: \beta_1 = 0$ & $H_0: \beta_2 = 0$

B) Find out confidence interval of true population parameter.

19. Explain the methodology of econometrics.

20. Explain classical Linear regression model.

21. For the below table test whether autocorrelation is positive or negative.

IMPORTS	GNP
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

G 514 DC1.3

(2021 Batch onwards)

Reg. No. :

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

December – 2022

FOOD SCIENCE

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)**
- a) Define Nutrition labeling.
 - b) Give a note on Sewage Treatment Plant.
 - c) Give a note on Critical Control Points.
 - d) Write about Indian Food Laws.
 - e) Define Lag Phase.
 - f) Give a note on "FAT TOM".
 - g) Write the principles of Food Safety.

PART – B

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

- 2. Explain in detail about three compartment Sink process.
- 3. Explain in detail about Basics of Food Safety & standards.
- 4. Write a short notes on Chemical and Biological Hazards in Food Industry.
- 5. Explain in detail about Prevention of Food Poisoning.
- 6. Write a short note on Implementation of ISO in Food Safety program.
- 7. Give a note on importance of GMP in Food Industries.
- 8. Explain in detail about the role and responsibilities of Food Safety Officers.
- 9. Write short notes on importance of HACCP in Food Safety.

PART – C

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

- 10. Explain in detail about role Bureau of Indian Standards in Food Industries.
- 11. Write short notes on role of FSSAI in regulatory system of food in India.
- 12. Write a short note on Waste Water Treatment with neat diagram.

(2021 batch onwards)

G 735 LA1.3

Reg. No.

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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

December - 2022

ENGLISH

Time: 2½ hrs.

Max Marks: 60

UNIT - I PROSE

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

(5x1=5)

1. In the lesson, 'A Convocation address', what has become a global phenomenon with more than hundred countries pursuing the privatization agenda?
2. How has cinema portrayed courtesans?
3. The article 'The Diaspora Men' was published in _____.
4. The roots of _____ are to be searched in social relationship.
5. The Mahalanobis model led to widespread suspicions of any non-governmental initiative. TRUE/ FALSE

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

1. How does the author Pramod Kumar compare slave labour and indentured labour?
2. Explain how Bollywood reduced the life of tawaifs into stereotypes of immoral women?
3. How, according to Mr Murthy, has Information Technology helped in designing customer-friendly goods?
4. Do you agree with Ambedkar that caste works even in Indian commerce and industry? Explain.

UNIT - II POETRY

II. Answer any TWO of the following in about 150-180 words each: (2X5=10)

1. Write a short note on the images of nature used in the poem, 'For the Dispossessed.' What message does the poet convey through these images?
2. "And mouth with myriad subtleties," is a comment on language and speech in modernity. Explain with reference to the poem, 'We Wear the Mask.'
3. Comment on the conversation between the spirit of the lover and the young man in the poem, 'The Unquiet Grave.'
4. Comment on the idea of death being a stepping stone for the slave's "children's children" to cross upon, according to the poem, 'Time to Die.'

UNIT - III SHORT - STORY

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

1. What emotions were evoked in the princess, as imagined by her lover, when she met the beautiful lady upon opening the door? Write a short critical note.
2. Write a short note on the discussion between the banker and his friends that leads to the bet.
3. Write a note on the cost of human freedom with reference to the short story, "The Bet".
4. In the short story, 'The Lady or the Tiger?' what role did the public play in the theatre of the justice?

Contd...2

UNIT – IV GRAMMAR AND WRITING SKILLS

IV A. Choose appropriate words given in the brackets and fill in the blanks: (5x1=5)

1. She said that the rapid tests were very _____ detecting the virus. (good in, good at, good for)
2. The passenger _____ to change seats. (flatly refused, badly refused, deeply refused)
3. Little remained of the bus after it _____ in the centre of the city. (caught fire, got fire, set fire)
4. Photography is _____ in the museum. (fully forbidden, highly forbidden, strictly forbidden)
5. If you _____ the light will dim just a bit each time a cloud goes by. (watch clearly, watch closely, watch nicely)

B. Choose appropriate phrasal verbs from the given list and fill in the blanks.

(5x1=5)

1. Sheldon had an emotional _____ yesterday.
2. I need some new clothes. Why don't you _____ these jeans?
3. My friend finally _____ at the wedding.
4. I found a box of some strange substance in the river. It _____ a strange odour. So, I left it where it was and called the police.
5. Please don't _____ all your money.
(break down, give off, try on, put on, give up, give away, show up, come up,

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

I can't believe I (get) _____ (1) that apartment. I (submit) _____ (2) my application last week, but I didn't think I had a chance of actually getting it. Nearly twenty people had already filled out their applications. The landlord said I could still apply, so I (do) _____ (3). The landlord wanted me to include references. I was confused and ended up listing my father as a reference. It was lucky he (decide) _____ (4) to give me the apartment. It turns out that the landlord and my father (go) _____ (5) to high school together.

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 turn over rate of employees at the GHS Corporation. A five member team has analyzed the administration records and working conditions as well has interviewed staff.

G 736 LA3.3

(2021 batch only)

Reg. No:

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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

December - 2022

HINDI

Time: 2½ hrs.

Max Marks: 60

I अ) एक वाक्य में उत्तर लिखिए:

(4x1=4)

1. आलेखन की परिभाषा लिखिए।
2. आलेखन के कितने प्रकार हैं?
3. किस पत्र को 'गश्ती पत्र' कहते हैं?
4. नौकरी पाने के लिए कौन सा पत्र लिखा जाता है?

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए:

(2x4=8)

1. आलेखन किसे कहते हैं? उसके गुणों को समझाइए।
2. मुंबई के नेताजी महाविद्यालय में हिन्दी अध्यापक के पद के लिए रोहन शर्मा के नाम से आवेदन पत्र लिखिए।
3. वाणी प्रकाशन दिल्ली से सुष्मा ने जो किताबें मंगवाई थी वे किताबें आदेशानुसार नहीं हैं। उन्हें शिकायती पत्र लिखकर क्षतिपूर्ति की प्रार्थना कीजिए।

II अ) निम्नलिखित अंग्रेजी शब्दों को हिन्दी में अनुवाद कीजिए:

(4x1=4)

1. Cabinet
2. Gazette
3. Provident Fund
4. Transfer

आ) निम्नलिखित अवतरण को पढ़कर संबंधित प्रश्नों का उत्तर लिखिए:

(4x1=4)

सभ्यता के लक्षणों में समाचार पत्र एक है। कोई राष्ट्र जितना ज्यादा शिक्षित होता है, उतनी ही ज्यादा वहाँ समाचार पत्रों की माँग होती है; क्योंकि शिक्षित व्यक्ति यह जानने के लिए सदा उत्सुक रहता है कि दुनिया में क्या हो रहा है और इसकी जानकारी उसे समाचार पत्रों के माध्यम से ही मिल सकती है। हर प्रकार का स्थानीय और विदेशी समाचार हमें देना समाचार पत्र का प्राथमिक कार्य है। हमारे देश में तथा दुनिया के अन्य देशों में क्या-क्या हो रहा है, इसकी सूचना समाचार पत्र हमें देता है। समाचार पत्रों से ही हम दुनिया की महत्वपूर्ण और दिलचस्प घटनाओं के बारे में जान सकते हैं।

1. समाचार पत्र किसके लक्षणों में एक है?
2. कोई राष्ट्र जितना ज्यादा शिक्षित होता है, उतनी ही ज्यादा वहाँ किसकी माँग होती है?
3. शिक्षित व्यक्ति क्या जानने के लिए उत्सुक रहता है?
4. समाचार पत्र का प्राथमिक कार्य क्या है?

Contd...2

- इ) निम्नलिखित अवतरण का संक्षिप्त रूप लिखकर शीर्षक दीजिए: (1x4=4)
 भारत सरकार आजकल ज्यादा से ज्यादा निर्यात की जानेवाली चीजों का उत्पादन व विक्रय बढ़ाने की कोशिश कर रही है। निर्यात-वस्तु-बीमा-कॉर्पोरेशन एक ऐसी संस्था है जिसके द्वारा विदेश भेजे जानेवाले माल की सुरक्षा का निश्चय और माल की क्षति संभावना के कारण का निवारण होता है। यह एक सरकारी संस्था है। इसका उद्देश्य तत्समान कार्य करनेवाली बीमा- कंपनियों के काम में दखल देना नहीं, बल्कि विशेष परिस्थिति में भेजे जानेवाले माल पर निर्यातक को आर्थिक सहायता बैंकों से दिलाना है। बीमा-कंपनियाँ साधारणतः जिस प्रकार की जोखिम से बचने के लिए माल का बीमा स्वीकृत करती है उससे बढ़कर जोखिम उठाकर इस कॉर्पोरेशन का कितना कारोबार होगा और इससे निर्यात में कितनी वृद्धि होगी यह कॉर्पोरेशन द्वारा चार्ज किए हुए प्रीमियम की रकम पर निर्भर होगा।
- III अ) एक वाक्य में उतार लिखिए: (3x1=3)
1. अविनाश किसको बेढब चीज कहता है?
 2. 'सीमा रेखा' एकांकी के रचनाकार कौन है?
 3. 'समरथ को नहीं दोष गुसाई' एकांकी के रचनाकार कौन है?
- आ) किसी एक का पात्र परिचय दीजिए। (1x4=4)
1. 'सीमा रेखा' एकांकी की सविता
 2. जान से प्यारे एकांकी के अविनाश
- इ) किसी एक की संदर्भ सहित व्याख्या कीजिए: (1x4=4)
1. "आपका दुःख वाकई बहुत बड़ा है। मैं आपकी पत्नी को नया जीवन देने आया हूँ।"
 2. "कल तक मेरे इशारे पर दुम हिलानेवाले तेरी यह जुरत कि मुझे ही आँखें दिखाता है। क्या तू भूल गया मेरे चौकीदार बंदूकों से लैस हैं और मेरे एक ही इशारे पर तुझे रंग से बदरंग कर देंगे।"
- ई) किसी एक प्रश्न का उत्तर लिखिए: (1x7=7)
1. 'सीमा रेखा' एकांकी का सारांश लिखकर विशेषताओं पर प्रकाश डालिए।
 2. पठित एकांकी के आधार पर जान से प्यारे एकांकी का विश्लेषण कीजिए।
- IV अ) एक वाक्य में उत्तर लिखिए: (3x1=3)
1. 'अंडे के छिलके' एकांकी के लेखक का नाम लिखिए।
 2. राय साहब की बेटी का नाम क्या है?
 3. वज्रकीट किसकी जाँघ को काटने लगा?
- आ) किसी एक पात्र का परिचय दीजिए: (1x4=4)
1. अंडे के छिलके एकांकी की जमुना
 2. आखेट एकांकी का ब्राह्मण
- इ) किसी एक की संदर्भ सहित व्याख्या कीजिए: (1x4=4)
1. "पराया घर तो लगता ही है, भाभी! तुमने आते ही वह नक्शा बदला है इस कमरे का कि मेरा अंदर पैर रखने का हौसला ही नहीं पडता।"
 2. "बधाई कर्ण, बधाई! आज सर्वसम्मति से तुम्हें कुरु सेना का सेनापति बनाया गया है। तुम्हें सारी सेना सौंपकर मैं निश्चिंत हो जाऊँगा।"
- ई) किसी एक प्रश्न का उत्तर लिखिए: (1x7=7)
1. 'वापसी' एकांकी का सार लिखकर उसकी विशेषताओं पर प्रकाश डालिए।
 2. 'आखेट' एकांकी में कर्ण एक दुरंत नायक है। इस कथन का स्पष्टिकरण कीजिए।

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ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ), ಮಂಗಳೂರು
ಬಿಎಸ್ಸಿ - ಮೂರನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ
ಡಿಸೆಂಬರ್ - 2022
ಕನ್ನಡ ಭಾಷಾಪತ್ರಿಕೆ - 3

ಸಮಯ : 2½ ಘಂಟೆ

ಗರಿಷ್ಠ ಅಂಕ: 60

- I ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ** **7 X 3= 21**
1. ಮಯೂರಧ್ವಜನ ಭಕ್ತಿ ಹಾಗೂ ಸತ್ಯನಿಷ್ಠೆಯನ್ನು ವಿವರಿಸಿರಿ
 2. ಗಿರಿಜವ್ವೆ ನಿಜಗಲ್ಲಿನ ಅೂರದೇವಿಯುನಿಸಿಕೊಂಡ ಸಂದರ್ಭವನ್ನು ಕತೆಯ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿರಿ
 3. ಯಕ್ಷ ಯಕ್ಷಿಯರ ವಿರಹವೇದನೆಯ ಚಿತ್ರಣ 'ಉತ್ತರಮೇಘ' ದಲ್ಲಿ ಹೇಗೆ ಮೂಡಿದೆ? ವಿವರಿಸಿರಿ
 4. ಆದರ್ಶದ ಸಾಧನೆಗಾಗಿ ತಮ್ಮನ್ನೇ ಅರ್ಪಿಸಿಕೊಂಡ ಮದರ್ ತೆರೇಸಾ ಮತ್ತು ಡಾ.ಸುದರ್ಶನರ ಸಾರ್ಥಕ ಬದುಕಿನ ಚಿತ್ರಣವನ್ನು ವಿವರಿಸಿರಿ
 5. ಹೊಸಮಾಧ್ಯಮಗಳ ಲಕ್ಷಣ ಮತ್ತು ಪ್ರಯೋಜನಗಳನ್ನು ಕುರಿತು ಬರೆಯಿರಿ
 6. ಸೀತೆಯ ಶಿರವನ್ನು ಕತ್ತರಿಸುವಂತೆ ರಾಮನು ಆಜ್ಞಾಪಿಸಲು ಕಾರಣವೇನು? ಕಾವ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿರಿ
- II ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ** **3X 3= 09**
7. ಶಾನುಭೋಗರ ಮಗಳ ಕುರಿತು ಕವಿಯ ಭಾವನೆ ಹೇಗೆ ವ್ಯಕ್ತವಾಗಿದೆ? ವಿವರಿಸಿರಿ
 8. 'ಯುದ್ಧ ಬೀಜಗಳು' ಕವನದ ಆಶಯವನ್ನು ವಿವರಿಸಿರಿ
 9. ಮನುಷ್ಯನ ಜೀವನದ ವಿವಿಧ ಅವಸ್ಥೆಗಳನ್ನು ಕವಿ 'ಮಬ್ಬಿನಿಂದ ಮಬ್ಬಿಗೆ' ಕವನದಲ್ಲಿ ಹೇಗೆ ಚಿತ್ರಿಸಿದ್ದಾರೆ? ವಿವರಿಸಿರಿ
 10. ನಗರದ ಮೂಲವೇ ಹಳ್ಳಿ ಎಂಬುದಾಗಿ ಜಾಗೃತಿ ಮಾಡಬೇಕಾದ ಅನಿವಾರ್ಯತೆಯನ್ನು ಲೇಖನದ ಮೂಲಕ ವಿವರಿಸಿರಿ
 11. ಕನ್ನಡದ ವೆಬ್ ಸೈಟ್, ಲಿಪಿ ತಂತ್ರಾಂಶಗಳ ಕುರಿತು ವಿವರಿಸಿರಿ
 12. ಜನಪದ ಕಾವ್ಯದಲ್ಲಿ 'ಕುಶ್ಚಲು ಅವುಲು' ಪ್ರಸಂಗದ ಸ್ವಾರಸ್ಯವನ್ನು ಬರೆಯಿರಿ
- III ಒಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಪದ್ಯದ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ** **4 X1= 04**
13. ಹೆತ್ತ ಸೂತಕ ಮತ್ತೆ ಹತ್ತು ದಿನ ಪರಿಯಂತ
ಮೃತ್ಯು ಸೂತಕವು ಹನ್ನೊಂದು ದಿವಸ
ಮತ್ತೆ ಋಣ ಸೂತಕವು ಜನ್ಮಜನ್ಮಾಂತರ
ಎತ್ತ ಪೋದರು ಬಿಡದೆ ಬೆನ್ನಟ್ಟಬಹುದು
 14. ಮರದ ನಡುವೆ ಬಿಳಿ ಹಾಸುಗಲ್ಲು ಬಂಗಾರ ಕೋಲು ನಡುಕೆ
ಎಳೆಬಿದಿರ ಬಣ್ಣ ಬೆಲೆಹರಳಿನಿಂದ ನೆಲೆಗಟ್ಟು ಅದರ ಬುಡಕೆ
ಆ ಕೋಲಿನಲ್ಲಿ ಕಣಿಸುವಳು ನವಿಲ ನನ್ನಾಕೆ ಸಂಜೆಯಲ್ಲಿ
ಕೈತಟ್ಟಿ ಮಾಟ ಬಳೆ ತಾಕಲಾಟ ಧಕಧೈಯ ಧಾಟಿನಲ್ಲಿ
- IV ಎರಡು ಪದ್ಯ ಸಾಲುಗಳ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸಾಲಿನ ಮಹತ್ವವನ್ನು ವಿವೇಚಿಸಿ** **2X2= 04**
15. ಕೀರ್ತಿ ನಿಲ್ಲುದು, ನರರ ಬಾಳ್ ದಿಟಮಿದಲ್ಲ
 16. ಎದೆ ತುಂಬ ಮೊರೆಯುತ್ತಿವೆ ಹತ್ತು ದಿಕ್ಕಿನ ಗಾಳಿ
 17. ಒಡಹುಟ್ಟಿದವಳು ನೀನು ನನಗಿಂದು
 18. ಒಳಗೆ ನಂದಾದೀಪ ಆರಿ ಹೋಗಿ
- V ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ** **3X2= 06**
19. ಲಕ್ಷ್ಮೀಶ
 20. ಪುರಂದರ ದಾಸ
 21. ದೇವಯಾನಿ
 22. ಮಡುವಾಳ ಮಾಚಪ್ಪ

ಆ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ

3X2= 06

23. ಮಾಸ್ತಿ ವೆಂಕಟೇಶ ಅಯ್ಯಂಗಾರ್
24. ನದಿ-ನಗರ ಸಂಬಂಧ
25. ಡಿಜಿಟಲ್ ತಂತ್ರಜ್ಞಾನ
26. ಪಾಟೀಲ ಪುಟ್ಟಪ್ಪ

VI ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ

1X10= 10

27. 'ಉಪಮಾಲೋಲ' ಎಂದು ಪ್ರಸಿದ್ಧನಾದ ಕವಿ ಯಾರು?
28. 'ಕರ್ನಾಟಕ ಸಂಗೀತ ಪಿತಾಮಹ' ಎಂದು ಯಾರನ್ನು ಕರೆಯುತ್ತಾರೆ?
29. ಸಂಸ್ಕೃತದಲ್ಲಿ 'ಮೇಘದೂತ' ವನ್ನು ಬರೆದ ಕವಿ ಯಾರು?
30. ದ.ರಾ. ಬೇಂದ್ರೆಯವರ ಕಾವ್ಯನಾಮವೇನು?
31. 'ಕನ್ನಡ ಸಣ್ಣ ಕತೆಗಳ ಜನಕ' ಎಂದು ಪ್ರಸಿದ್ಧರಾದವರು ಯಾರು?
32. ಮದರ್ ತೆರೆಸಾಗೆ ನೀಡಿದ ಜಗತ್ತಿನ ಅತ್ಯುನ್ನತ ಪ್ರಶಸ್ತಿ ಯಾವುದು?
33. ಒಂದು ಸರ್ಚ್ ಇಂಜಿನ್ ನನ್ನು ಹೆಸರಿಸಿ
34. ರಾಮರಸನಾಯಕನ ಹಿರಿಯ ಹೆಂಡತಿ ಯಾರು?
35. ಶ್ರೀರಾಮಚಂದ್ರನ ತಂದೆಯ ಹೆಸರೇನು?
36. 'ಜಾನಪದ ಜೋಗಿ' ಎಂದು ಪ್ರಸಿದ್ಧರಾದವರು ಯಾರು?

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester III – Degree Examination
December - 2022

SANSKRIT

Time: 2½ hrs.

Max Marks: 60

- 1 श्लोकद्वयम् अनुवादं कृत्वा विवृणुत । 2 X 5 = 10
- 1.1 वालाग्रशतभागस्य शतधा कल्पितस्य च ।
भागो जीवः सः विज्ञेयः स चानन्त्याय कल्पते ॥
- 1.2 वक्त्रेण उत्पलनालेन यथोर्ध्वं जलमाददेत् ।
तथा पवनसंयुक्तः पादैः पिबति पादपः ॥
- 1.3 अस्ति प्रशस्ता जनलोचनानामानन्दसन्दायिषु कोसलेषु ।
आज्ञासमुत्सारितदानवानां राज्ञामयोध्येति पुरी रघूणाम् ॥
- 1.4 यथा शिखा मयूराणां नागानां मणयो यथा ।
तद्वद्वेदाङ्गशास्त्राणां ज्योतिषं मूर्ध्नि संस्थितम् ॥
- 2 चतुर्णां सन्दर्भसहितविवरणं लिखत । 3 X 4 = 12
- 2.1 मित्रो दाधार पृथिवीमुतट्टाम् ।
- 2.2 मोक्षो नाम दुःखत्रयात् मुक्तिः ।
- 2.3 अहमेव तं हनिष्यामि ।
- 2.4 जात्यत्रिभुजे भुजकोट्योर्वर्गयोगः कर्णवर्गसमः ।
- 2.5 चम्पूप्रबन्धरचनां रसना मदीया ।
- 3 त्रीन् प्रबन्धरूपेण उत्तरयत । 3 X 5 = 15
- 3.1 ज्योतिष्यशास्त्रस्य विषये पाठोक्तरीत्या विषदयत ।
- 3.2 रामस्य अवतारनिर्धारं यथा पाठोक्तं लिखत ।
- 3.3 प्राचीनभारतीयविज्ञाने खगोलशास्त्रमधिकृत्य लिखत ।
- 3.4 पातञ्जलयोगदर्शनम् – पाठोक्त विचारान् विषदयत ।
- 3.5 वृक्षायुर्वेदः – पाठोक्त विचारान् लिखत ।
- 4 एकं संस्कृतेन टिप्पणीं लिखत । 1 X 6 = 06
- 4.1 रामायणम् ।
- 4.2 चम्पूकाव्यम् ।
- 4.3 योगशास्त्रम् ।
- 5 द्वयोः टिप्पणीं लिखत । 2 X 4 = 08
- 5.1 वृक्षायुर्वेदः ।
- 5.2 दिनचर्या ।
- 5.3 गणितशास्त्रम् ।
- 6 न्यायत्रयं विषदयत । 3 X 3 = 09
- 6.1 सिंहावलोकनन्यायः ।
- 6.2 कूपमण्डूकन्यायः ।
- 6.3 भिक्षुपादप्रसारणन्यायः ।
- 6.4 रज्जुसर्पन्यायः ।
- 6.5 अरण्यरोदनन्यायः ।

(2021 Batch onwards)

G 739.LA 8.3

Reg. No:

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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

December - 2022

KONKANI

Time: 2 ½ Hours

Max. Marks: 60

ಯುನಿಟ್ 1 - ಕವನಾಂ

I ಖಿಂಚಾಯ್ ಎಕಾ ಕವನಾಚೊ ಸಾರಾಂಶ್ ಬರಯಾ.

(5×1=5)

ಅ) ಸುಟೊನ್ ನೀದ್, ಗಾಯ್ತಾ ಗೀತ್
ಮಾಂಯ್ ಭಾಷೆಕ್ ಮಾಗ್ತಾ ನೀತ್
ಸಂಖ್ಯಾರ್ ಉಣ್ಯಾನ್ ಉಣೊ
ಹೆರ್ ಲೋಕ್ ರಾವುನ್ ಶಾಣೊ
ತೆ ಮೆಳಿಂತ್ ಕಿತ್ಯಾಕ್ ಉಣೊ
ಉರ್ಲಾ ನಿದೊನ್ ಕೊಂಕ್ಲೊ!

ಆ) ಹಿಂ ನಾತಿಂ ಹಿಂ ಬಂದ್ವಾಂ
ಸಗ್ಳಿಂ ವೆಳಾ ಕಾಳಾಚಿಂ
ಗರ್ಜ್ ಜಾಲ್ಚಿಕ್ ವಯ್ಸ್
ಮೊರ್ತಚ್
ಮಾಗಿರ್ ಭಿಯಾಂಕ್
ಮಾತಿ ಕೋಣ್ ಗಿ.

ಇ) ಗಾಂವ್ ಗೊ ಚೆಡ್ವಾ
ಮ್ಹಜೊ ಗಾಂವ್ ಗೊ
ಬಾರಾ ಗಾಂವ್ ಭರ್
ತಾಚೆಂ ನಾಂವ್ ಗೊ
ವ್ಹಡ್ವಿಕಾಯ್ ಕಾಂಯ್
ಸಾಂಗ್ಲಿ ನ್ಹಯ್
ಪಳೆಲ್ಯಾ ಖರಿತ್ ತುಕಾ
ಕಳ್ಳಿ ನ್ಹಯ್
ಗಾಂವಾಕ್ ಯೇಗೊ
ಮಾಗಿರ್ ಸಾಂಗ್ ಗೊ
ದುದಾ ಮೊಂವಾಚೊ
ಮ್ಹಜೊ ಗಾಂವ್ ಗೊ

II ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ.

(1×5=5)

ಅ) ಪಿ. ಎಲ್. ಬಿ. ಕೊಣಾಚೆಂ ಕಾವ್ಯನಾಮ್ ಜಾವ್ನಾಸಾ?

ಆ) ಲಗನ್ ಕವಿತೆಚೊ ಕವಿ ಕೋಣ್?

ಇ) ಕೋಣ್ ಬುದ್ಧಂತ್ ಜಾಲಾ?

ಉ) ಖಡಾಪ್ ಹಾಚೆಂ ಪೂರ್ಣ್ ನಾಂವ್ ಕಿತೆಂ?

ಊ) R. S. ಭಾಸ್ಕರಾಚಿ ಖಂಚಿಯ್ ಏಕ್ ಕವಿತಾ ಉಲ್ಲೇಖ್ ಕರಾ.

III ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.

(5×1=5)

ಅ) ಬುದ್ಧಂತ್ ಜಾಲ್ಲ್ಯಾ ಮಾಜ್ರಾಂ ವಿಶಿಂ ಬರಯಾ.

ಆ) ಲಗನ್ ಕವನಾಚೊ ಸಾರಾಂಶ್ ಬರಯಾ.

Contd...2

ಯುನಿಟ್ 2 - ಗದ್ಯ ಭಾಗ

I ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ:

(1×5=5)

- ಅ) ಕೋಣ್ ದೆವಾಲಾಗಿಂ ಸವಾಲಾಂ ಕರ್ತಾ?
- ಆ) ಪ್ರಸಾದ ಫುಲ್ ಕಿತೆಂ ಜಾವ್ನಾಸಾ?
- ಇ) ಗಂಗಾ ಆಶೀಚ್ ವ್ಹಾವ್ತಾ ಕಾಣಿಯೆಚೊ ಬರಯ್ತಾರ್ ಕೋಣ್?
- ಈ) ಅರುಣ್ ಸಂಸಾರಾ ಥಾವ್ನ್ ಕಿತೆಂ ಲಿಪಯ್ತಾ?
- ಉ) ಹಿಪ್ಪಿ ಚಲಿ ಪರ್ಗಟ್ ಜಾಲ್ಲೆಂ ವರ್ಸಾ ಖಂಚೆಂ?

II ಖಿಂಚಾಯ್ ಎಕಾ ಪಾತ್ರಾಚಿ ಪರಿಚಯ್ ದಿಯಾ

(5×1=5)

- ಅ) ಬಾ
- ಆ) ಚಂಪಾವತಿ

III ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.

(5×1=5)

- ಅ) ವಾಸಂತಿ ಆನಿ ಅರುಣಾಚ್ಯಾ ಸಂಬಂಧಾ ವಿಶಿಂ ಕಳಯಾ.
- ಆ) ಸಿಂಧ್ರೆಲ್ಲಾ ಥಂಯ್ ಜಾಲ್ಲಿ ಬದ್ಲಾವಣ್ ವಿವರ್ಸಿಯಾ.

ಯುನಿಟ್ 3 - ನಾಟಕ್

I 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?
- ಉ) ಚಾ. ಫ್ರಾ. ಚೆಂ ಸಗ್ಳೆಂ ನಾಂವ್ ಕಿತೆಂ?

II ಖಿಂಚೆಂಯ್ ಎಕ್ ಕೊಣೆಂ, ಕೊಣಾಕ್ ಆನಿ ಖಿಯ್ಚ್ಯಾ ಸಂದರ್ಭಾರ್ ಸಾಂಗ್ಲಿಂ ಉತ್ರಾಂ ಕಳಯಾ.

(1×5=5)

- ಅ) ಬರೆಂ ಈಟ್ ಬರೆಂ ಫಳ್
- ಆ) ಹಾತ್ ಧರ್ ಲೊ ಪತಿ ಯಾ ಅಂಬಾಡ್ಯಾಚಿ ಕುತಿ.

III. ಖಿಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ.

(1×5=5)

- ಅ) ಇನ್ನಾ ಆನಿ ಮೊನ್ನಾ ಚೊ ಸಂಬಂಧ್ ನಾಟಕಾಂತ್ ಕಳಯಾ.
- ಆ) ಬಂಗಾರ್ ಮನಿಸ್ ಪ್ರಸ್ತುತ್ ಕಾಳಾಕ್, ಸಮಕಾಲೀನ್ ಮ್ಹಣ್ ಭಗ್ತಾಗಿ ಕಳಯಾ.

IV ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ.

(5×1=5)

- ಅ) ಜಾಹೀರಾತ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?
- ಆ) ಪತ್ರಾಚೆಂ ಮುಖ್ಯ ಲಕ್ಷಣ್ ಕಿತೆಂ?
- ಇ) ಪರಿಪತ್ರ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?
- ಈ) ವೈವಾಟಾಚ್ಯಾ ಖಿಂಚಾಯ್ ಎಕಾ ಪತ್ರಾಕ್ ಉದಾಹರಣ್ ದಿ.
- ಅ) ಖಾಸ್ಸಿ ಪತ್ರ ಬರಯ್ತಾನಾ, ದಿನಾಂಕ್ ಹಸ್ತಾಕ್ಷರ್ ಗರ್ಜೆಚೆಂ ಗಿ?

V ಖಿಂಚಾಯ್ ದೋನ್ ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ.

(5×2=10)

- ಅ) "ಸಾಂ. ಲುವಿಸ್ ಕೊಂಕ್ವಿ ಪುಸ್ತಕ್ ಭಂಡಾರ್ "ಪುಸ್ತಕಾಲಯಾಚೆಂ ಉಗ್ರಾವಣ್ ಕಾರ್ಯಾಚೆಂ ಆಮಂತ್ರಣ್ ಪತ್ರ ತಯಾರ್ ಕರಾ.
- ಆ) "ಬಂಗಾರ್ ಮನಿಸ್ " ನಾಟಕಾಚೊ ಪ್ರತಿಯೊ ಜಾಯ್ ಮ್ಹಣ್ ವಿಚಾರ್ನ್ ಕೊಂಕ್ವಿ ಸಂಸ್ಕೃತಾಚ್ಯಾ ನಿರ್ದೇಶಕಾಕ್ ಪತ್ರ ಬರಯಾ.
- ಇ) ಸೂಕ್ತ್ ಕಾರಣ್ ದೀವ್ನ್ ದೋನ್ ದಿಸಾಂಚಿ ರಜಾ ವಿಚಾರ್ನ್ ತುಮ್ಮಾಚ್ಯಾ ಸಂಸ್ಕೃತಾಚ್ಯಾ ಪ್ರಾಂಶುಪಾಲಾಕ್ ಪತ್ರ ಬರಯಾ

G 740 LA7.3

(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 III- Degree Examination
December - 2022**

**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 Swami Vivekananda, the national ideals of India are service and _____.
2. The essay, 'The Spirit of Freedom', has been taken from the collection entitled _____.
3. Who believed that economic reform must have more priority than other reforms?
4. The Jat-Pat-Todak Mandal was an organization of _____.
5. What does 'in toto' mean? (in parts, as a whole, incomplete)

B. Answer any FOUR of the following in about 180-200 words each: (4x5=20)

1. Critically analyze the essay 'The Spirit of Freedom' by Rabindranath Tagore.
2. What according to Vivekananda, does India lack in? Justify your point of view with reference to the essay, 'India Our Motherland'.
3. Explain how the untouchables were ill-treated by the high caste Hindus with reference to the lesson, 'The Annihilation of Caste'.
4. Caste is not just a division of labour; it is a division of labourers. Elucidate.
5. "My faith is younger generation, the modern generation". Elucidate with reference to the essay, 'India: Our Mother Land.'
6. Why is the internal reform of the caste system virtually impossible? Justify with reference to the lesson, 'Annihilation of Caste'.

UNIT - II (POETRY)

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

1. What are the different literary devices used in the poem, 'Success is Counted Sweetest'?
2. How does Rudyard Kipling present the themes of hopes and fears in the poem, 'If'?
3. What does the poet advise people to do when they are in a difficult or conflicting situation? Elaborate in the light of what you have understood, reading the poem, "Stay Calm".
4. Make an assessment of how humans generally respond to insults, disappointments and conflicts in life? What alternative response does the poet present to us in the poem, 'Stay Calm'?

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

1. Discuss the theme of partition in, 'Train to Pakistan'.
2. Analyze the role of women in, 'Train to Pakistan'.
3. Compare and contrast the character of Jugga and Iqbal with reference to the novel, 'Train to Pakistan'.

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

1. A sad song
a) Ditty b) knell c) dirge d) lay
2. A pioneer of a reform movement
a) apostle b) apothecary c) apotheosis d) renegade
3. Extreme old age when a man behaves like a fool
a) Imbecility b) youth c) Dotage d) superannuation
4. A style in which a writer makes a display of his knowledge
a) pedantic b) verbose c) pompous d) ornate
5. A person who knows many foreign Languages
a) Linguist b) grammarian c) Polyglot d) Bilingual

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

Write a dialogue that takes place between you and the counsellor of your block, seeking help to apply for the scholarship.

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St. Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc. /B.Com./B.B.A./B.C.A. - Semester III – Degree Examination
December - 2022

FRENCH

Time: 2½ hrs.

Max Marks: 60

I. Mettez les verbes au voix passive

1x5=5

1. L'ambulance conduit le blessé à l'hôpital
2. On a volé des diamants chez le bijoutier
3. Mes amis regardent les oiseaux
4. Les enfants suivront le guide.
5. Molière a écrit L'Avare.

II. Mettez les verbes au conditionnel.

1x5=5

1. Si les hommes pouvaient, ils (faire)
2. Nous(acheter) une maison.
3. S'ils(vouloir) du pain, ils me le diraient.
4. J'achèterais une grande maison, si je(gagner)le lotto.
5. J'(aller) au marché, si tu fais la vaiselle.

III. Rapporte des paroles

1x5=5

1. C'est super! La fille dit.....
2. Que pensez-vous ? Dites moi.....
3. Avez vous une crevette ? il demande.....
4. Comment voyages- tu ? Elle veut savoir.....
5. Ne sois pas en retard ! La mère demande.....

IV. Répondez aux questions

4x5=20

1. Que feriez - vous si vous ganniez une grosse somme d'argent?
2. Expliquez l'art de la renaissance.
3. Écrivez une note sur le prix de Césars.
4. Donnez la signficance de le langage des couleurs.

V. Dialogue

5x1=5

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

Ou

Jouez la scene en utilisons les vocabulaire " incomprehension et malentendu".
Choisissez un context librement.

VI. Lettre

10x1=10

Vous écrivez à un ami français qui a un grand appartement. Vous lui demandez s'il peut loger pendant 15 jours un(e) amie (e) de votre pays qui vien faire un stage en France. Vous lui décrivez cet ami. Vous rassurez votre ami français et vous lui donnez quelques conseil pour que tout se passe bien.

VII. COMPREHENSION**2x5=10**

La philosophie de l'éducation est une étiquette appliquée à l'étude du but, du processus, de la nature et des idéaux de l'éducation. Il peut être considéré comme une branche à la fois de la philosophie et de l'éducation. L'éducation peut être définie comme l'enseignement et l'apprentissage de compétences spécifiques, et la transmission de connaissances, de jugement et de sagesse, et est quelque chose de plus large que l'institution sociétale de l'éducation dont nous parlons souvent.

De nombreux pédagogues le considèrent comme un domaine faible et flou, trop éloigné des applications pratiques du monde réel pour être utile. Mais les philosophes remontant à Platon et aux Grecs de l'Antiquité ont beaucoup réfléchi et mis l'accent sur ce domaine, et il ne fait aucun doute que leur travail a contribué à façonner la pratique de l'éducation au cours des millénaires.

Platon est le premier penseur pédagogique important, et l'éducation est un élément essentiel de "La République" (son ouvrage le plus important sur la philosophie et la théorie politique, écrit vers 360 av.) Il y prône des méthodes assez extrêmes : soustraire les enfants à la garde de leur mère et les élever comme pupilles de l'État, et différencier les enfants adaptés aux différentes castes, les plus élevées recevant le plus d'éducation, afin qu'ils puissent agir en tant que gardiens de la ville et prendre soin des moins capables. Il croyait que l'éducation devrait être holistique, y compris les faits, les compétences, la discipline physique, la musique et l'art. Platon croyait que le talent et l'intelligence ne sont pas distribués génétiquement et se retrouvent donc chez les enfants nés de toutes les classes, bien que son système proposé d'éducation publique sélective pour une minorité instruite de la population ne suive pas vraiment un modèle démocratique.

Aristote considérait la nature humaine, l'habitude et la raison comme des forces d'égale importance à cultiver dans l'éducation, dont le but ultime devrait être de produire de bons et vertueux citoyens. Il a proposé que les enseignants dirigent systématiquement leurs élèves et que la répétition soit utilisée comme un outil clé pour développer de bonnes habitudes, contrairement à l'accent mis par Socrate sur le questionnement de ses auditeurs pour faire ressortir leurs propres idées. Il a souligné l'équilibre entre les aspects théoriques et pratiques des matières enseignées, parmi lesquelles il mentionne explicitement la lecture, l'écriture, les mathématiques, la musique, l'éducation physique, la littérature, l'histoire et un large éventail de sciences, ainsi que le jeu, qu'il a également considéré important.

Au cours de la période médiévale, l'idée de pérennialisme a été formulée pour la première fois par saint Thomas d'Aquin dans son ouvrage "De Magistro". Le pérennialisme soutient qu'il faut enseigner les choses considérées comme étant d'une importance éternelle pour tout le monde, à savoir les principes et le raisonnement, pas seulement les faits (qui sont susceptibles de changer avec le temps), et qu'il faut d'abord enseigner les gens, pas les machines ou les techniques. . Il était à l'origine de nature religieuse, et ce n'est que beaucoup plus tard qu'une théorie de la pérennité laïque s'est développée.

1. Quelle est la différence entre les approches de Socrate et d'Aristote ?
 - a) Aristote a souligné l'importance de prêter attention à la nature humaine; Socrate insiste sur la science
 - b) Aristote a ressenti le besoin d'apprendre par cœur ; Socrate a mis l'accent sur l'apprentissage dialogique
 - c) Il n'y avait pas de différence
 - d) Aristote ressentait le besoin de répétition pour développer de bonnes habitudes chez les élèves ; Socrate a estimé que les étudiants doivent être constamment interrogés
2. Pourquoi les pédagogues considèrent-ils la philosophie comme un domaine « faible et flou » ?
 - a) Ce n'est pas pertinent pour l'éducation
 - b) Ses concepts théoriques sont faciles à comprendre
 - c) Ce n'est pas applicable dans la pratique
 - d) Aucune de ces réponses
3. Que comprenez-vous par le terme « pérenalisme », dans le contexte du passage de compréhension donné ?
 - a) Il se réfère à quelque chose qui est d'une importance incessante
 - b) Il fait référence à quelque chose qui est tout à fait inutile
 - c) Il fait référence à quelque chose d'abstrait et de théorique
 - d) Il se réfère à quelque chose qui existait dans le passé et n'existe plus maintenant
4. Les croyances de Platon sur l'éducation étaient-elles démocratiques ?
 - a) Il croyait que seuls les riches ont le droit d'acquérir une éducation
 - b) Oui
 - c) Il croyait que seuls quelques privilégiés sont destinés à fréquenter les écoles
 - d) Il croyait que tous les élèves n'étaient pas doués
5. Pourquoi Thomas d'Aquin a-t-il proposé un modèle d'éducation qui n'insiste pas beaucoup sur les faits ?
 - a) Les faits ne sont pas importants
 - b) Les faits ne mènent pas à une éducation holistique
 - c) Les faits changent avec les temps qui changent
 - d) Les faits sont figés dans le temps

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**St Aloysius College (Autonomous)
Mangaluru**

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

December - 2022

MALAYALAM

Time: 2½ hrs.

Max Marks:60

I. രണ്ടെണ്ണം വ്യാഖ്യാനിക്കുക (2x3 =6)

1. കാത്ത കല്പന വന്നു “പിടിയാനയെക്കൊണ്ടു കാട്ടിൽ വിട്ടേക്കൂ,ജീവിച്ചീടുകിൽ ജീവിക്കട്ടെ”..
2. ഗാനം പോൾ ഗുണകാവ്യം പോൽ, മമ മാനസമോർത്തു, സഖീ നിന്നെ..
3. “ആരു നീയനുജത്തി? നിർന്നിമേഷമായെന്തൻ തേരുപോകവേ നേരെനോക്കി നിൽക്കുന്നു ദൂരെ?

II. രണ്ടെണ്ണത്തിനു കുറിപ്പു തയ്യാറാക്കുക (2x3=6)

4. ഫിൻലൻഡിൻറെ പുതിയ ചരിത്രം.
5. ഫിൻലൻഡിലെ തടാകങ്ങൾ
6. ഹെൽസികിയിലെ സൈനറ്റ് അങ്കണം

III. ഒരേണ്ണത്തിന് ഒരു പുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x7=7)

7. മനസിനി എന്ന കവിതയിൽ കവി ഭാര്യയെ വർണ്ണിച്ചിരിക്കുന്നതെപ്രകാരമാണ്?
8. അപകടത്തിൽ പെട്ട പിടിയാനയെ വനപാലകൻ രക്ഷപ്പെടുത്തിയതെങ്ങിനെ?

IV. ഒരേണ്ണത്തിന് ഒരുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x7=7)

9. ഫിൻലൻഡിൻറെ പാർലുമെൻറ് മന്ദിരത്തെക്കുറിച്ച് വിവരിക്കുക
10. ഹെൽസികിയിലെ പ്രധാന തെരുവുകളെക്കുറിച്ച് വിവരിക്കുക

V. ഒരേണ്ണത്തിന് രണ്ട് പുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x10=10)

11. തിര്യക്കുകളുടെ നിഷ്കളങ്കമായ സ്നേഹം വ്യക്തമാക്കുന്ന ഒരു കവിതയാണ് വളർത്തുമകൾ-സമർഥിക്കുക
12. സൂര്യനും സൂര്യകാന്തിപ്പൂവും തമ്മിലുള്ള ആത്മബന്ധം കവിതയിൽ കവി അവതരിപ്പിച്ചിരിക്കുന്നതെങ്ങിനെ ?

VI. ഒരേണ്ണത്തിന് രണ്ട് പുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x10=10)

13. ഫിൻലൻഡിലെ ജനങ്ങളെക്കുറിച്ചും അവരുടെ ഭാഷയെക്കുറിച്ചും ചുരുക്കി വിവരിക്കുക
14. ഫിൻലൻഡിൻറെ മുഖ്യ സബത്ത് വനങ്ങളാണെന്ന് പറയുന്നതെന്തുകൊണ്ട്?

VII. ഒരേണ്ണത്തിന് മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക (1x10=10)

15. ഉത്തരം കിട്ടാത്ത ഒരു പ്രഹേളികയാണ് മനുഷ്യമനസ്സ്-വാനപ്രസ്ഥത്തിലെ മാസ്റ്റർ ,വിനോദിനി ഇവരുടെ മാനസികാവസ്ഥയെ വിലയിരുത്തിക്കൊണ്ട് സമർഥിക്കുക
16. വാനപ്രസ്ഥം -ഒരാസാദനം തയ്യാറാക്കുക

VIII. നിവേദനം തയ്യാറാക്കുക (4)

17. നാട്ടിലെ പേപ്പട്ടി ശല്യത്തിനെതിരെ നടപടിയെടുക്കണമെന്ന് ആവിശ്യപ്പെട്ടുകൊണ്ട് ബന്ധപ്പെട്ട അധികാരികൾക്ക് ഒരു നിവേദനം തയ്യാറാക്കുക

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St Aloysius College (Autonomous)

Mangaluru

B.A./B.Sc./B.C.A. – Semester III -Degree Examination

December - 2022

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. What are gender roles?
2. Mention the forms of domestic violence
3. Expand PMLA
4. Who is the chairperson of the National commission for women
5. What is Female Feticide?
6. Define sex ratio
7. What is wife battering?

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

8. Differences between patriarchy and matriarchy
9. Differences between femininity and masculinity
10. What is honour killing?
11. What are the changes made to the MTP act in 2021?
12. What is globalization?
13. Expand ICDS
14. Define human trafficking

III. Answer any TWO of the following questions in 20 lines each. (2×10=20)

15. Discuss the need for gender sensitization
16. What are the measures taken by the government to promote the rights of the girl child
17. Describe some of the laws protecting women and children
18. Explain the functions of National commission for women

PART – B

VALUE EDUCATION

IV. Answer any ONE of the following in not less than a page. (5×1=5)

19. Write a short note on In Vitro Fertilization (IVF).
20. What is functional family? Explain their characteristics.

V. Answer any ONE of the following in not less than two pages. (10×1=10)

21. Explain the desirable qualities required for a successful marriage.
22. Discuss the various temporary family planning methods.