G 501 DC1.2

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester II – Degree Examination

July/August -2022

PHYSICS

ELECTRICITY AND MAGNETISM

Time: 2½ hrs.

Max Marks: 60

SECTION –A

Answer any **FOUR** of the following.

(2x4=8)

1. a) Define rms value of alternating voltage and give the relation between peak value and rms value of voltage.

   b) State Faraday's first law of electromagnetic induction.

   c) Mention any two applications of capacitors

   d) State Ohm's law and give a relation connecting Voltage V, Current I and Resistance R.

   e) Give an expression for curl in Cartesian co-ordinates.

   f) What are paramagnetic materials?

SECTION – B

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

(10x4=40)

UNIT-I

2. a) Derive an expression for the electric potential at a point due to an electric monopole. **(6)**

   b) State and explain Gauss theorem. **(4)**

3. a) What are scalar and vector point functions? Also explain what are scalar and vector fields. **(6)**

   b) Explain the physical significance of divergence. **(4)**

UNIT-II

4. a) Derive an expression for capacitance of a parallel plate capacitor with a medium of di-electric constant K completely occupying the region between the plates. **(6)**

   b) Derive an expression for the energy stored in a parallel plate capacitor. **(4)**

5. a) Give the theory of discharge of the capacitor in a LCR circuit. **(6)**

   b) Discuss the decay of charge in a CR circuit. **(4)**

UNIT-III

6. a) Derive with necessary theory the response of a series RC circuit when an alternating voltage is applied across its ends. **(6)**

   b) What are ferromagnetic materials? Mention any four properties. **(4)**

7. a) Derive an expression for the magnetic dipole moment of a revolving electron. What is the unit of magnetic dipole moment? **(6)**

   b) What is meant by (i) Magnetic susceptibility (ii) Magnetic permeability Give two properties each of diamagnetic and paramagnetic materials. **(4)**

UNIT-IV

8.a) Derive the Maxwell's fourth equation with the symbols having the usual meaning. (6)

$$\nabla \times \vec{H} = \vec{J} + \frac{\partial \vec{D}}{\partial t}$$

b) Give the significance of Poynting vector. (4)

9.a) Derive the equation of continuity. (6)

b) Write a note on eddy currents. (4)

SECTION –C

Answer any <u>THREE</u> from the following.   **(4x3=12)**

10. Point charges of +2µC, +6µC, +12µC, and +20µC are placed at the corners A, B, C and D respectively of a square ABCD of side 2 m. Find the potential energy of a +8nC charge placed at the center of the square.

11. A parallel plate capacitor has two square plates each of side 2 cm, which are separated by a distance of 5 mm. Find its capacitance. What will be the charge stored in the capacitor when a potential difference of 10 V is applied across it.

12. The magnetic flux linked with a coil of 200 turns charges from 120 Wb to 20 Wb in 5 µs. Find the induced emf in the coil.

13. A capacitor of 100 µF is charged to 12 V through a resistor of 1500 KΩ. Find the voltage across the resistor after (i) 20 s (ii) 120 s while discharging.

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St Aloysius College (Autonomous) Mangaluru

B.Sc. Semester II – Degree Examination

July/August - 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 Heisenberg's uncertainty principle.
   b) $4s$ orbital is lower in energy than $3d$ orbital. Justify.
   c) What is ionization enthalpy?
   d) What are pyrosilicates?

   e) Define critical temperature.
   f) What are constitutive properties?
   g) Calculate the total number of atoms in a face-centered cubic lattice.
   h) State law of constancy of interfacial angles.

PART - B

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

2. (i) Calculate the uncertainty in velocity of an electron if uncertainty in its position is 1 A°. Given m = 9.1 x 10^{-31} kg, h = 6.6 x 10^{-34} kg m^2 s^{-1}.

   (ii) What is Effective Nuclear charge (Z_{eff})? Calculate the Z_{eff} experienced by a $2p$ electron in oxygen atom.

   (iii) Explain Allred-Rachow scale of electronegativity.

   (iv) Discuss the structure of BeH_2.

   (v) Calculate the skeletal electron pairs in B_5H_{11} using Wade's Rule. Classify the borane as *Closo, Nido* or *Arachno*.

   (vi) Give any three postulates of kinetic theory of gases.

   (vii) Explain the principle involved in determination of viscosity of a given liquid.

   (viii) vander Waals constant of a gas are a= 0.751 litre² atm mol^{-2} and b = 0.0226 litre mol^{-1}. Calculate V_c and P_c.

   (ix) Differentiate between solids, liquids and liquid crystals.

   (x) Describe the structure of caesium choride.

PART - C

Answer any <u>SEVEN</u> of the following questions.   **(4×7 = 28)**

3. Derive Schrodinger's equation for three-dimensional motion of an electron.

4. Derive an expression for de Broglie equation.

5. State Aufbau principle. Give its limitations.

6. Explain ionic and complex hydride with an example each.

7. Discuss the properties, structure and bonding in diborane (B_2H_6). Determine its STYX number.

8. Explain Maxwell's Boltzmann distribution of molecular velocities for different gases.

9. Explain the determination of refractive index of a liquid using Abbe's refractometer.

10. Explain the structure of smectic and nematic liquid crystals.

11. Derive Bragg's equation.

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester II – Degree Examination
July /August - 2022
MATHEMATICS
Number Theory –II, Algebra-II, Calculus-II

Time: 2½ hrs.

Max Marks: 60

PART-A

Answer any <u>SIX</u> of the following: (6 X 2 = 12)

1. If p is a prime, prove that $a^p \equiv a(mod\ p)$ for any integer a.

2. Calculate $\phi(72)$.

3. Prove that an identity element of a group is unique.

4. Give an example to show that union of two subgroups need not be a subgroup.

5. Write the domain and range of the function $w = \sin(xy) - 1$.

6. If $z = \dfrac{2y}{1+\cos x}$, find the total differential of z.

7. If the circle C is parametrized by the equations $x = \cos t$ and $y = \sin t$, $0 \le t \le 2\pi$, then find $\int_C y^2\ ds$.

8. Find the area of the region R enclosed by the coordinate axes and the line $x + y = 2$.

PART- B

UNIT- I

Answer any <u>TWO</u> of the following: (2x6=12)

1. a) If p is a prime, prove that $(p-1)! \equiv -1(mod\ p)$. **(4)**

   b) Define pseudo primes and give an example. **(2)**

2. a) If $n \ge 1$, $\gcd(a,n) = 1$, prove that $a^{\phi(n)} \equiv 1(mod\ n)$. **(4)**

   b) For $n > 2$ and n being a power of 2, prove that $\phi(n)$ is an even integer. **(2)**

3. If $c_k = \dfrac{p_k}{q_k}$ is the kth convergent of the finite simple continued fraction $[a_0; a_1, \dots, a_n]$, then prove that $p_k q_{k-1} - q_k p_{k-1} = (-1)^{k-1}, 1 \le k \le n$.

UNIT- II

Answer any <u>TWO</u> of the following: (2X6 =12)

1. a) Given $axa = b$ in a group G, find x.   (2)

    b) Prove that a non-empty subset H of a group G is a subgroup of   (4)

    G if and only if $ab^{-1} \in H$ whenever $a, b \in H$.

2. a) Define a cyclic group.   (1)

    b) Prove that every subgroup of a cyclic group is cyclic.   (5)

3. a) If H and K are subgroups of a group G, then HK is a subgroup of

    G if and only if $HK = KH$.   (4)

    b) Define center of a group.   (2)

UNIT- III

Answer any <u>TWO</u> of the following: (2X6 =12)

1. If $v = At^{-\frac{1}{2}} e^{-\frac{x^2}{4a^2t}}$, prove that $\frac{\partial v}{\partial t} = a^2 \frac{\partial^2 v}{\partial x^2}$.

2. State and prove Euler's theorem on homogeneous functions.

3. Expand the function $f(x,y) = x^2 + xy - y^2$ by Taylor's theorem in powers of $(x-1)$ and $(y+2)$.

UNIT- IV

Answer any <u>TWO</u> of the following: (2X6 =12)

1. If the curve C is parametrized by the equations $x = t$ and $y = t^3$,

    $-1 \leq t \leq 2$, then find $\int_C f(x, y)ds$ where $f(x,y) = 3y$.

2. Find the volume of the solid whose base is the region in the xy-plane that

    is

    a) bounded by the parabola $y = x^2$ and the line $y = 2x$, while the top of

    the solid is bounded by the plane $z = 4x + 2$.   (3)

    b) bounded by the x-axis, the line $y = x$, and the line $x = 1$, while the

    top of the solid is bounded by the surface $z = \frac{\sin x}{x}$.   (3)

3. Find the volume of the region enclosed by the surfaces $z = x^2 + 3y^2$ and $z = 8 - x^2 - y^2$.

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester II – Degree Examination
July/August – 2022

ELECTRONICS
FIELD EFFECT TRANSISTORS, THYRISTORS, OPERATIONAL AMPLIFIERS & ITS LINEAR APPLICATIONS AND COMBINATIONAL 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

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

i)   A JFET always operates with_____
     a) the gate to source p-n junction reverses biased.
     b) the gate to source p-n junction forward biased.
     c) The drain terminal connected to ground.
     d) The gate connected to source.

ii) CMRR of a practical Op-amp is_____
     a) Very High   b) Very Low   c) Infinity   d) Zero

iii) Closed loop gain of an inverter using op-amp is ------
     a) 1   b) -1   c) 0   d) 0.5

iv) In a T flip-flop 'T' refers to _____
     a) Toggle   b) Timer   c) Trigger   d) Threshold

v)   The number of control lines required for a 8 to 1 MUX is _____
     a) 2   b) 3   c) 4   d) 8

vi) Power dissipation is minimum in _____logic family.
     a) ECL   b) TTL   c) DTL   d) CMOS

                                                                  (6x1=6

II. Answer any <u>SIX</u> questions:
  i)   Draw the symbol of NMOS and PMOS.
  ii) Define Propagation delay.
  iii) What is Multiplexer?
  iv) Draw the circuit diagram of aDTL NAND gate.
  v)   Write the logic diagram of a T flip-flop.
  vi) Draw the functional block diagram of Op-amp.
  vii) Define pinch-off voltage.
  viii) Define Slew rate w.r.t op-amp.

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III. Answer any SIX questions:

i) Mention any two differences between JFET and BJT.

ii) What are the advantages of an voltage follower using op-amp as compared to emitter follower.

iii) Draw the pin configuration of IC741.

iv) What is a voltage follower? Mention its application.

v) Give the equations for Low level and High-level Noise Margin.

vi) Mention the differences between combinational circuit and Sequential circuit.

vii) Write the circuit diagram of two input CMOS NAND gate.

viii) Write the characteristics (truth) table of a D flip-flop

SECTION – B

IV. Answer any FOUR questions. (4x4=16)

i) With necessary diagrams explain the drain characteristics of an n-channel JFET.

ii) Define CMRR of an op-amp. What is its significance? Calculate the CMRR of an op-amp in dB, if its common mode gain is 0.01 and differential gain is 100.

iii) Implement the following Boolean expression in to a 4 to 1 Mux.

$F(A,B,C) = \Sigma(0, 1, 3, 4, 6)$.

iv) Draw the circuit diagram of an inverting comparator and also draw the input and output waveforms for an input voltage $V_{in(p-p)} = 12V$, and $V_{ref} = 3V$.

v) Design a Full Adder using the combinational circuit design procedure.

vi) In an inverting amplifier using op-amp $R_2=10k\Omega$ and $R_2=100k\Omega$. Calculate the (i) Closed loop gain (ii) feedback factor (iii) input resistance.

V. Answer any Four questions: (5x4=20)

i) With a neat circuit diagram explain the working of Totem Pole TTL NAND gate.

ii) Using Combinational circuit design procedure explain a BCD to X's 3 code converter.

iii) Design a 2-bit magnitude comparator using combinational logic circuit design procedure.

iv) With neat circuit diagram explain a voltage shunt feedback amplifier using op-amp and obtain the expression for its closed loop gain.

v) A closed loop non inverting amplifier using an Op-amp uses $R_F=100K\Omega$ and $R_1=10k\Omega$. Calculate its output voltage for an input of 1V. What will be the output voltage if the input voltage is increased to 5V?
(Given $+V_{cc}=15V$, $-V_{EE}=-15V$)

vi) Draw the circuit diagram of a dual input balanced output differential amplifier using transistors and explain its working.

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St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester II – Degree Examination

July/August - 2022

COMPUTER SCIENCE

DATA STRUCTURES USING C

ime: 2½Hours.   **Max Marks: 60**

PART –A

1. **Answer any <u>SIX</u> of the following.**   **(6X2=12)**

a) Define data structure.

b) What is recursion? Give example.

c) Write the advantages of linked list.

d) What is doubly linked list?

e) How does stack differ from queue?

f) What is a prefix notation? Give an example.

g) Define path and degree of a node.

h) What is a binary search tree? Give an example.

PART –B

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

UNIT - I

2. a) Write the classification of data structures and briefly explain it?   **(5)**

   b) Write bubble sort algorithm.   **(5)**

   c) What is sparse matrix? Give an example.   **(2)**

3. a) Write the algorithm to find the maximum element in an array?   **(5)**

   b) Trace insertion sort for the following data.   **(5)**

      23, 11,3, 1, 76, 55, 45,67,87,98,78, 43

   c) Write the formula to find the address of a particular location in a single dimension array.   **(2)**

UNIT – II

4. a) Write and explain binary search algorithm.   **(6)**

   b) What is a linked list? Explain the different types of linked lists with diagram.   **(4)**

   c) What is dynamic memory allocation?   **(2)**

5. a) Write and explain an algorithm to search for an element using linear search.   **(5)**

   b) Write algorithm to insert a node to the beginning of the linked list.   **(5)**

   c) Give two advantages of linked list over arrays.   **(2)**

UNIT – III

6. a) Evaluate the following postfix expression with proper steps. 4572+-* (5)

   b) Write a note on circular queue. (5)

   c) Write any two applications of stack. (2)

7. a) Write algorithms to insert and delete an element from a queue. (6)

   b) What is stack? Explain the operations performed on stack. (4)

   c) List the operations on queue. (2)

UNIT – IV

8. a) Write the depth first search algorithm for a graph. (6)

   b) Write the algorithm for preorder traversal of a binary tree with an example. (4)

   c) Define digraph. Give example. (2)

9. a) Draw binary tree for the following list of numbers and traverse the same using inorder, preorder and postorder

   40, 60, 50,33,35, 56,78,90,55 (6)

   b) Write the array representation of a binary tree with an example. (4)

   c) Define adjacency matrix. (2)

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester II – Degree Examination
July/August - 2022
STATISTICS
PROBABILITY AND DISTRIBUTIONS

Time: 2½ Hours.   Max Marks: 60

SECTION – A

I Answer any FIVE of the following.   (2X5=10)

1. a. Define multiple and partial correlation.

   b. State the properties of the distribution function of a random variable.

   c. Define mathematical expectation of a discrete random variables.

   d. Define Karl Pearson's measure of association.

   e. Derive the M.G.F of binomial distribution.

   f. Write the p.d.f of normal distribution.

   g. Give the syntax for creating a multiple bar chart with the title and axis labels.

SECTION – B

II Answer any ONE question from A or B.   (5x4=20)

UNIT – I

2. a. Briefly explain odd's ratio and Yule's measures of association.

OR

2. b. With usual notations, prove that $r_{12.3} = \dfrac{r_{12}-r_{13}r_{23}}{\sqrt{(1-r_{13}^2)(1-r_{23}^2)}}$

UNIT – II

3. a. Prove that $Cov(aX + bY, cX + dY) = ac\sigma_X^2 + bd\sigma_Y^2 + (ad + bc)Cov(X, Y).$

OR

3. b. State and prove multiplication theorem of expectation for any two continuous random variables.

UNIT – III

4. a. Derive recurrence relation for the central moments of Binomial distribution

OR

4. b. Derive the mode for normal distribution.

UNIT – IV

5. a. i) What is the function that is used to build a linear model in R?   (1)

   ii) What is the syntax that is used to get the scatter plot in R?   (1)

   iii) Give the syntax for creating a component bar chart with title and axis labels in R.   (2)

   iv) Write the syntax used to calculate the correlation coefficient in R.   (1)

OR

5. b. i) Describe the use of c() and plot() in R. **(2)**

ii) Write the syntax for computing probabilities for Binomial and Poisson distribution in R. **(3)**

SECTION – C

III Answer any TWO of the following. **(15x2=30)**

6. i) Define multiple correlation coefficient. State its properties. **(5)**

ii) Derive the equation to the plane of regression of X_1 on X_2 and X_3. **(10)**

7. i) State and prove addition theorem of expectations for any two discrete random variables. **(6)**

ii) Prove that a) E(aX+b)= aE(x)+b

b) V(ax)=a² V(x) **(5)**

iii) Show that M.G.F is not independent of origin and scale. **(4)**

8. i) State and Prove additive property of Poisson distribution. **(3)**

ii) Derive recurrence relation for the central moments of Poisson distribution and hence find first four central moments. **(7)**

iii) Prove that M.D $(\overline{X}) = \frac{4}{5}\sigma$ for normal distribution. **(5)**

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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) What is a heterocyst? What is its significance?

2) Differentiate colonial algae and filamentous algae. Give two examples for each.

3) List out four general characters of Bryophytes.

4) What are trabeculae? Where do you find it?

5) What is a spur? In which species do you find trifoliar spur?

6) List out any four economic importance of gymnosperms.

7) List out any two contributions of Birbal Sahni.

8) Define impressions.

SECTION – B

II   Answer any SIX of the following.   (6x5=30)

1) Describe the thallus of *Oedogonium*.

2) Write a note on algal cultivation.

3) Discuss the structure of *Marselia* stem anatomy.

4) Describe the sporophyte of *Anthoceros*.

5) Write a note on affinities and evolutionary significance of Pteridophytes.

6) Describe the structure of male cone in *Cycas*.

7) Discuss Geological time scale and plants have evolved through the different eras.

8) Write short notes on *Rhynia*.

SECTION – C

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

1) Write a detailed note on life cycle in *Polysiphonia*.

2) Explain the structure of capsule in *Funaria*.

3) Describe the sporophyte of *Gnetum*. List the affinities of *Gnetum* with angiosperms.

4) Write a general account of fossil bryophytes. Add a note on *Lepidodendron*.

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G 508 DC1.2   Reg. No.:

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester II – Degree Examination
July/August - 2022
ZOOLOGY
BIOCHEMISTRY AND PHYSIOLOGY

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.   (2X10=20)

a) What are glycoconjugates?

b) What are conjugate proteins? Give two examples.

c) Define isozymes. Give examples.

d) Write the energetic of glycolysis.

e) Name four enzymes involved in the Ketogenesis.

f) What is glycogenolysis?

g) What is pulmonary ventilation?

h) Define hemopoiesis.

i) What is mechanical digestion? Mention any two types.

j) Write a note on tetanus.

k) Write the functions of melatonin hormone.

PART – B

II. Answer any FOUR of the following.   (5X4=20)

a) Write a short note on phospholipids and steroids.

b) List the chemical importance of enzymes.

c) Give a schematic representation of palmitic acid biosynthesis.

d) Explain the process of carbohydrate digestion in human.

e) Give an account on chemical changes during muscle contraction.

f) Define blood pressure. Add a note on its regulation.

PART – C

III. Answer any TWO of the following.   (10X2=20)

a) With schematic representation, explain Citric Acid Cycle.

b) Give an account on nomenclature and classification of enzymes.

c) Explain the mechanism of urine formation.

d) Enumerate the hormones secreted by thyroid glands and parathyroid glands. Add a note on their functions.

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G 509 DC1.2   Reg. No.: ☐☐☐☐☐☐☐

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester II – Degree Examination
July/August - 2022
MICROBIOLOGY
MICROBIAL BIOCHEMISTRY AND PHYSIOLOGY

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) Vander Waal forces
   b) Buffer
   c) Peptide bond
   d) Sphingolipids
   e) Active transport
   f) Chemolithotrophs
   g) Thermophiles
   h) Enthalpy
   i) Hexokinase
   j) Hydrogen bond
   k) Hemoglobin
   l) Redox potential

PART – B
Answer 'a' or 'b' from each unit.   (5x4=20)
UNIT -I
2. a) Write a note on water as a universal solvent.   (5)

   OR

   b) Explain the Handerson–Hasselbalch equation.

UNIT –II
3. a) Classify carbohydrates based on structural isomerism.   (5)

   OR

   b) Elaborate the importance of lipids.

UNIT –III
4. a) What are the different nutritional types of microorganisms?   (5)

   OR

   b) Write a note on active transport.

UNIT –IV
5. a) Explain homolactic fermentation.   (5)

   OR

   b) Give an account of energy coupling reactions.

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

6. a) Explain the TCA cycle.
6. b) Elaborate on the importance of chlorophyll and hemoglobin.
6. c) Classify proteins based on structure.

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G 511 DC1.2   **Reg. No:**

St Aloysius College (Autonomous) Mangaluru

B.Sc. Semester II – Degree Examination
July/August - 2022
BIOTECHNOLOGY
MICROBIOLOGICAL METHODS AND TECHNIQUES

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:**   (5x2=10)

a) Write the distinguishing features of light and electron microscopy.

b) What does a phylogenetic tree signify?

c) Differentiate between bactericidal and bacteriostatic against.

d) What are the advantages of TLC our paper chromatography?

e) What is the purpose of streak plating? How is it done?

f) What is a enrichment culture media?

g) Write the mode of action of amphotericin B.

h) What is the importance of MDR strains in a hospital setup?

PART – B

Answer any SIX of the following: (6x5=30)

2. Write the principle of fluorescence microscopy. Add a note on its advantages.

3. Explain Whittaker's five kingdom classification in detail.

4. Discuss the mechanism of action of antimicrobial agents.

5. Describe the mode of action of gaseous agents.

6. Describe differential media with suitable examples.

7. Write a short note on the cultivation of anaerobic bacteria.

8. Discuss Kirby Bauer disc diffusion method.

9. Describe the factors responsible for antibiotic resistance in bacteria.

PART – C

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

10. Explain in detail the circulars paper chromatographic technique used for the separation of compounds.

11. Explain the construction and working principle of an autoclave.

12. Discuss the bacterial preservation techniques. Add a note on the culture collection centres.

13. Describe the classification of antibiotics giving one example for each.

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Reg. No. :

G 513 DC1.2

St Aloysius College (Autonomous)

Mangaluru

B.Sc. - SEMESTER II – Degree Examination

July/August - 2022

ECONOMICS

MACRO ECONOMICS

Time: 2½ Hours.

Max. Marks: 60

SECTION - A

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

1. List out any four macroeconomic variables.

2. What is creeping inflation?

3. What is GDP?

4. What is wage-price flexibility?

5. What is aggregate demand price?

6. What is MEC?

7. What do you mean by money market?

8. What is fiscal policy?

SECTION - B

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

9. Briefly explain the difference between micro and macroeconomics.

10. Write a note on demand – pull inflation.

11. Explain the income method of measuring national income.

12. Write a note on Says law of market.

13. How is effective demand determined according to Keynes?

14. Briefly explain the concept of multiplier.

15. Briefly explain supply side theory.

16. Write a note on IS-LM model.

17. What is monetary policy? Briefly explain its objectives.

SECTION – C

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

18. Explain the importance of macroeconomics.

19. Explain human development index as an indicator for quality of life.

20. Examine the classical theory of employment.

21. Describe the various phases of business cycles.

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Reg. No. :

G 513 DC2.2

St Aloysius College (Autonomous)

Mangaluru

B.Sc. - SEMESTER II – Degree Examination

July/August - 2022

ECONOMICS

STATISTICS FOR ECONOMICS

Time: 2½ Hours.   Max. Marks: 60

SECTION - A

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

1. Find the mode for the following

    Mean: 80.14   Median : 83.84

2. Find the Quartile Deviation and its coefficient :

    Q_1= 30.5 Q_3= 70.4

3. Find out the Harmonic Mean for the following data:

C-I	30-40	40-50	50-60	60- 70	70- 80	80 -90	90-100
F	15	13	8	6	15	7	6

4. Calculate Fisher's Ideal Index Number from the following data:

    Laspeyre's Index Number: 223.36

    Paasche's Index Number: 226.80

5. Compute coefficient of rank correlation from the following:

Economics	85	60	73	40	90
Statistics	93	75	65	50	80

6. Find the equation of the regression lines of X on Y when r= 0.60, standard deviation of x= 1.5 , standard deviation of y=2.0, arithmetic mean of x=10 and arithmetic mean of y=20

7. Calculate Straight Line Trend Equation from the following data:

    N =7, ΣY = 628, ΣX = 0, ΣXY=99, ΣX^2= 28

8. Find the inverse of A $= \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$

SECTION - B

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

9. Calculate Mode for the following:

C-I	0-10	10-20	20 -30	30-40	40-50	50-60	60- 70	70- 80
F	4	12	24	36	20	16	8	5

10. Calculate Geometric Mean from the following data:

C-I	20 -30	30-40	40-50	50-60	60- 70	70- 80
F	8	12	22	17	14	10

11. Find out the value of Mean Deviation and its coefficient from the following data:

C-I	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
F	4	8	11	15	12	6	3	2

12. Find out Pearson's coefficient of correlation for the following information:

X	9	8	7	6	5	4	3	2	1
Y	15	16	14	13	11	12	10	8	9

13. Construct a Lorenz curve for the following:

Profits (in Millions)	15	25	35	45	55	65
No of Firms	5	13	18	10	4	8

14. Compute the trend values by finding three yearly moving averages for the following time series:

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Value	103	104	107	101	102	104	105	99	100	101

15. Solve the Following equations using Cramer's rule

$2x_1 + 3x_2 = 11$

$x_1 + 4x_2 = 22$

16. Find the equilibrium income level and interest rate and the levels of C. I , Mt and Mr in equilibrium when, C= 89 +06Y and I = 120-150i,   Ms= 275, Mt= 0.1Y, Mr =240-250i.

17. Obtain the optimum solution for the following linear programming problem:

Maximise $Z = 45x_1 + 55x_2$

Subject to : $6x_1 + 4x_2 \le 120$

$3x_1 + 10x_2 \le 180$

SECTION – C

III. Answer any <u>TWO</u> of the following: (2×10=20)

18. Find out Arithmetic Mean and Median from the following data by using the direct method.

Height:	135-140	140-145	145-150	150-155	155-160	160-165	165-170	170-175
No of Students:	4	9	18	28	24	10	5	2

19. Calculate Laspeyre's, Paasche's, Fisher's and Marshall- Edgeworth's Index Numbers

Commodities	Base		Current Year	
	Price	Quantity	Price	Quantity
A	20	8	40	6
B	50	10	60	5
C	40	15	50	15
D	20	20	20	25

20. The Demand and supply conditions for 2 related commodities are :

$D_1 = 100 - 2P_a + 2P_b + P_c$ $S_1 = 3P_a - 65$

$D_2 = 135 + 4P_a - 3P_b + 2P_c$ $S_2 = 5P_b - 95$

Find out the equilibrium values.

21. Compute the Coefficient of variation for the following data

Wages (in Rs)	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of Workers	12	18	35	42	50	45	20	8

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Reg. No. : ☐☐☐☐☐☐

St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester II – Degree Examination
July/August – 2022
FOOD SCIENCE
FOOD PROCESSING AND PRESERVATION

Time: 2½Hours   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) What is Ohmic heating?

b) Define Blanching.

c) Explain about pasteurization.

d) Give a note on Lactic acid Fermentation.

e) What is osmotic pressure and how does it work?

f) Define Food Fortification.

g) Give the importance of Food Dehydration.

PART – B

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

2. Write a short note on Meat Structure.

3. Write a short note on Extruder and its processing with neat diagram.

4. Explain in detail about Principles of refrigeration with neat diagram.

5. Write a short note on Canning Processing.

6. Explain in detail about High pressure processing with diagram.

7. Explain in detail about Membrane Technology with diagram.

8. Explain in detail about Microwave processing with neat diagram.

9. Write a short note on proteins and its classification.

PART – C

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

10. Write a short note on Carbohydrates with example.

11. Write a short note on Types of drying with neat diagram.

12. Explain in detail about basic mechanism of Dietary fiber in the human metabolism.

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(2021 batch onwards)

ಬಿ.ಎಸ್ಸಿ – ಎರಡನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ

ಜುಲೈ –2022

ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ – 2

ಸಮಯ : 2 ½ ಗಂಟೆ   ಅಂಕಗಳು: 60

I ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಪ್ರಬಂಧ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   (7x3=21)

1) ಅಜ್ಜೇಕವಿತೆ ಕವನದಲ್ಲಿರುವ ಅಜ್ಜಿಯ ವ್ಯಕ್ತಿತ್ವವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ

2) ಗುಲಾಮಗಿರಿತನವನ್ನು ಕುರಿತ ವಿಡಂಬನೆ 'ಗುಲಾಮರು' ಕವನದಲ್ಲಿ ಹೇಗೆ ಅಭಿವ್ಯಕ್ತಗೊಂಡಿದೆ?

3) ಸುಬ್ಬಣ್ಣ ಗೌಡರ ಕುಟುಂಬ ನೆರೆಯಿಂದ ಪಾರಾದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ

4) ಶಾಲೆಯ ಇನ್ಸ್ಪೆಕ್ಟರರ ಜಲಕ್ರೀಡೆ ಪ್ರಸಂಗವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ

5) ಉರಿಸಿಂಗನ ವರ್ತನೆಗಳಿಗೆ ಕಾರಣಗಳು ಹಾಗೂ ಆದನ್ನು ಪರಿಹರಿಸಿದ ರೀತಿಯನ್ನು ವಿಶ್ಲೇಷಿಸಿ

6) ಸರಕು ಮತ್ತು ಸೇವೆಗಳ ತೆರಿಗೆಯಿಂದ ಆಗುವ ಪ್ರಯೋಜನಗಳು ಯಾವುವು?

II ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಮೂರನ್ನು ಸಂಕ್ಷಿಪ್ತ ರೂಪದಲ್ಲಿ ಉತ್ತರಿಸಿ   (3x3= 9)

7) ರಂಜಾನ್ ದರ್ಗಾರವರು ಪ್ರಣಾಳಿಕೆ ಕವನದ ಮೂಲಕ ಅಭಿವ್ಯಕ್ತಿಸುವ ಚಿಂತನೆಗಳೇನು? ವಿವರಿಸಿ

8) ತುಂಬು ಮಳೆಗಾಲದ ಕನವರಿಕೆ ಕೊಡಗ್ರ ಪಾಡ್ ಕವನದಲ್ಲಿ ಮೂಡಿ ಬಂದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ

9) ಲೇಖಕರು ಹಾಗೂ ಆವರ ಸ್ನೇಹಿತ ಷಾ ಆವರು ದೆವ್ವದ ಆನ್ವೇಷಣೆಗೆ ತೆರಳಿ ಆನುಭವಿಸಿದ ಪ್ರಸಂಗಗಳನ್ನು ವಿವರಿಸಿ

10) ಸೂರ್ಯನ ಸಂಕಥನವನ್ನು ಲೇಖಕರು ಹೇಗೆ ನಿರೂಪಿಸಿದ್ದಾರೆ?

11) ಹುಲಿಯ ನರಭಕ್ಷಕನಾಗಲು ಕಾರಣಗಳೇನು? ಹುಲಿಯ ಚಾಣಾಕ್ಷತನವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ

12) ಸರಕು ಮತ್ತು ಸೇವಾ ತೆರಿಗೆ ನಡೆದು ಬಂದ ದಾರಿಯ ಕುರಿತು ಬರೆಯಿರಿ

III ಒಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಪದ್ಯದ ಮಹತ್ವನ್ನು ವಿವೇಚಿಸಿ   (4x1= 4)

13) ನಾವು ಸೆಂಟ್ ಪರ್ಸೆಂಟ್ ಗುಲಾಮರು. ಪೂರ್ವದಿಂದ ಪಶ್ಚಿಮಕ್ಕೆ ಅಗ್ಗದ ಬಟ್ಟೆಯ ಮಗ್ಗದಲ್ಲಿ ಸದಾ ಲಾಳಿಯಾಡುವ ಮಂದಿ, ಇದ್ದ ಆತ್ಮವನು ಕುತ್ತಿಗೆ ಹಿಸುಕಿ ವಿಲಾಯಿತಿಯ ಹುಲ್ಲನು ತುರುಕಿ ನಿಲ್ಲಿಸಿದ ಬೆದರು ಬೊಂಬೆಗಳು ನಾವು

14) ನಾಚದೆ ಸಿಟ್ಟಾಗದೆ ಕಟ್ಟಾ ನಿರ್ವಿಕಾರ ಅಜ್ಜಿ

ನನ್ನ ನನ್ನವರ ನೆರೆಕೆರೆಯ ಕ್ಷೇಮ ವಿಚಾರಿಸಿದಳು

ಸತ್ತವರ ಸುದ್ದಿಗೆ ಬಿಕ್ಕಿದಳು

ಇದ್ದವರ ಅಕ್ಕರೆ ಓಲೈಸಿ

ನನ್ನ ಉತ್ಕರ್ಷಕ್ಕೆ ಆಹಾ ಎಂದಳು

IV   ಎರಡು ಪದ್ಯ ಸಾಲುಗಳ ಸಂದರ್ಭ ಸೂಚಿಸಿ ಸಾಲಿನ ಮಹತ್ವನ್ನು ವಿವೇಚಿಸಿ   (2x2= 4)

15) ನಮಗೆಂದಿಗೂ ಬೇಕಾಗಿಲ್ಲ ಬಿಡುಗಡೆ

16) ತನ್ನನೇ ಮರೆತು ಸುರಿವ ಮಳೆಯು ಕಾಣದು

17) ಕೆಂಪುದೀಪದ ಕೆಳಗೆ ಉದ್ಯಾನವನಗಳೇಳುತ್ತವೆ

18) ನಿನ್ನ ಅಜ್ಜನೇ ನೀನಾಗಿ ಬಂದಿದ್ದಿಯೋ

V   ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ   (3x2= 6)

19) ರಂಜಾನ್ ದರ್ಗಾ

20) ಜಯಂತ ಕಾಯ್ಕಿಣಿ

21) ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ

22) ಮೊಣ್ಣಂಡ ಶೋಭಾ ಸುಬ್ಬಯ್ಯ

ಅ) ಕೆಳಗಿನ ಎರಡರ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ   (3x2= 6)

23) ಪಯಸ್ವಿನಿ ನದಿ

24) ಕುವೆಂಪು

25) ಮೀನಗುಂಡಿ ಸುಬ್ರಮಣ್ಯಂ

26) ಜಿಎಸ್‌ಟಿ ಮಂಡಳಿ

VI   ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ   (1x10= 10)

27) ಜಿ.ಎಸ್ ಶಿವರುದ್ರಪ್ಪನವರ ಪೂರ್ಣ ಹೆಸರೇನು?

28) ರಂಜಾನ್ ದರ್ಗಾರವರು ರಚಿಸಿದ ಜೀವನ ಚರಿತೆ ಯಾವುದು?

29) ಜಯಂತ ಕಾಯ್ಕಿಣಿಯವರ ಒಂದು ಕೃತಿಯನ್ನು ಹೆಸರಿಸಿ

30) ಕೊಡವರು ಮನೆತುಂಬಿಸಿಕೊಳ್ಳುವ ಹಬ್ಬ ಯಾವುದು?

31) ಕುವೆಂಪುರವರು ರಚಿಸಿದ ಮಹಾಕಾವ್ಯ ಯಾವುದು?

32) ಅವ್ಯಕ್ತ ಭಾರತ ಅಂಕಣದ ಬರಹಗಾರರು ಯಾರು?

33) ಪ್ರಾಚೀನ ಈಜಿಪ್ಟ್‌ನಲ್ಲಿ ಸೂರ್ಯನನ್ನು ಏನೆಂದು ಕರೆಯುತ್ತಾರೆ?

34) ಜಯಂತ ಕಾಯ್ಕಿಣಿಯವರ ತಂದೆಯ ಹೆಸರೇನು?

35) ಕೃಪಾಕರ ಸೇನಾನಿಯವರ ದಿ ಪ್ಯಾಕ್ ಚಿತ್ರಕ್ಕೆ ಯಾವ ಪ್ರಶಸ್ತಿ ಲಭಿಸಿದೆ?

36) ಸರಕು ಮತ್ತು ಸೇವಾ ತೆರಿಗೆ ಜಾರಿಗೆ ಬಂದ ವರ್ಷ ಯಾವುದು?

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St. Aloysius College (Autonomous)
Mangaluru
B.Sc - Semester II
July - 2022
SANSKRIT

Time: 2½ Hours   **Max. Marks: 60**

I   *द्वयो: अनुवादं विवरणं च लिखत ।*   (2 X 5 = 10)

1.1   स त्वं मदीयेन शरीरवृत्तिं देहेन निर्वर्तयितुं प्रसीद ।
दिनावसानोत्सुकबालवत्सा विसृज्यतां धेनुरियं महर्षे: ॥

1.2   कुग्रामवास: कुजनस्य सेवा कुभोजनं क्रोधमुखी च भार्या ।
मूर्खश्च पुत्र: विधवा च कन्या दहन्ति चैतानि जनं विनाग्निम् ॥

1.3   त्रिविधा भवति श्रद्धा देहिनां सा स्वभावजा ।
सात्त्विकी राजसी चैव तामसी चेति तां शृणु ॥

1.4   ददाति, प्रतिगृह्णाति, गुह्यमाख्याति, पृच्छति ।
भुङ्क्ते भोजयने चैव, षड्विधं प्रीतिलक्षणम् ॥

2   *त्रयाणां सन्दर्भसहितविवरणं कर्णाटकभाषया आङ्ग्लभाषया वा लिखत ।*   (3 X 4 = 12)

2.1   यज्ञस्तपस्तथा दानं तेषां भेदमिमं शृणु ।

2.2   क्वैवंविधान्यमृतफलानि प्राप्नोषि ?

2.3   लोकस्तथाप्यहितमाचरतीति चित्रम् ।

2.4   विचारमूढ: प्रतिभासि मे त्वम् ।

2.5   किं किं न साधयति कल्पलतेव विद्या ।

3   *एकमधिकृत्य संस्कृतभाषयां टिप्पणीं लिखत ।*   (1 X 4 = 04)

3.1   कालिदास: ।

3.2   भगवद्गीता ।

4   *त्रयाणां कर्णाटकभाषया आङ्ग्लभाषया वा प्रबन्धात्मकमुत्तरं लिखत ।*   (3 X 8 = 24)

4.1   श्रद्धात्रयविभागयोगे आहारत्रयविभागान् अधिकृत्य प्रबन्थमेकं लिखत ।

4.2   वानर: मकरात् स्वप्राणान् कथं रक्षितवान् ? यथा पाठं विवृणुत ।

4.3   भगवद्गीतायाम् उक्तरीत्या यज्ञतपोदानप्रभेदान् उद्दिश्य प्रबन्धं लिखत ।

4.4   नन्दिन्या दिलीपसत्व परीक्षणं कथं कृतम् ? विवृणुत ।

4.5   सूक्तिमुक्तावलि: पाठे प्रतिपादितानि जीवनमौल्यानि कानि ? विवृणुत ।

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व्याकरण भागः ।

5 *रिक्तस्थानानि पूरयत ।*

5.1 यशः एव धनं यस्य सः ____ । (यशोधनः, यशोधनात्, यशोधनस्य)

5.2 विशिष्टस्य भावः ____ । (वैशिष्ट्यम्, विशिष्टत्वम्, विशेषत्वम्)

5.3 मम इदं ____ । (मदीयम्, माम्, मदीया)

5.4 अहं त्वां तमेव ____ पादपं प्रापयामि । (आम्र, जम्बू, नारिकेलः)

5.5 तेषां निष्ठा तु का ____ सत्त्वमाहो रजस्तमः । (अर्जुन, कर्ण, कृष्ण)

5.6 श्रेयसां एष ____ । (मार्गः, मार्गस्य, मार्गेण)

संयोजयत ।

5.7	रक्तमुखः	– रघुवंशः
5.8	श्रद्धात्रयविभागयोगः	– मकरः
5.9	दिलीपः	– धेनुः
5.10	करालमुखः	– भगवद्गीता
5.11	कालिदासः	– सुदक्षिणा
5.12	नन्दिनी	– वानरः

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(2021 batch onwards)

Reg. No: ☐☐☐☐☐☐

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St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc./ B.C.A.- Semester II – Degree Examination
July / August - 2022
FOUNDATION COURSE IN HUMAN RIGHTS AND VALUE EDUCATION

Time: 2 Hours

Max. Marks: 50

PART – A
Human Rights

I. **Answer the following in one sentence each.** (1x5=5)
ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳನ್ನು ಒಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. Define Human Rights.
   ಮಾನವ ಹಕ್ಕುಗಳನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.

2. When did UN come into existence?
   ವಿಶ್ವಸಂಸ್ಥೆ ಯಾವಾಗ ಅಸ್ತಿತ್ವಕ್ಕೆ ಬಂದಿತು?

3. Which day is celebrated as Consumer Day in India?
   ಭಾರತದಲ್ಲಿ ಯಾವ ದಿನವನ್ನು ಗ್ರಾಹಕರ ದಿನವೆಂದು ಆಚರಿಸಲಾಗುತ್ತದೆ?

4. Who Founded Amnesty International?
   ಅಮ್ನೆಸ್ಟಿ ಇಂಟರ್ನ್ಯಾಶನಲ್ ಅನ್ನು ಸ್ಥಾಪಿಸಿದವರು ಯಾರು?

5. Mention the term of chairman of NHRC?
   ಎನ್ . ಎಚ್ . ಆರ್. ಸಿ ಅಧ್ಯಕ್ಷರ ಅವಧಿಯನ್ನು ಉಲ್ಲೇಖಿಸಿರಿ?

II. **Answer any ONE of the following in 8-10 sentences each.** (5x1=5)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು 2 –3 ವಾಕ್ಯಗಳಲ್ಲಿ ಬರೆಯಿರಿ.

6. Explain the nature of Human Rights.
   ಮಾನವ ಹಕ್ಕುಗಳ ಸ್ವರೂಪವನ್ನು ವಿವರಿಸಿರಿ.

7. Write a short note on Adivasis in India.
   ಭಾರತದಲ್ಲಿನ ಆದಿವಾಸಿಗಳ ಬಗ್ಗೆ ಒಂದು ಕಿರು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

III. **Answer any ONE of the following in 15-20 sentences each.** (10x1=10)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು 15 –20 ವಾಕ್ಯಗಳಲ್ಲಿ ಬರೆಯಿರಿ.

8. Explain the role of IGOs and NGOs in protecting human Rights.
   ಮಾನವ ಹಕ್ಕುಗಳನ್ನು ರಕ್ಷಿಸುವಲ್ಲಿ ಐಜಿಒ ಗಳು ಮತ್ತು ಎನ್.ಜಿ.ಒ ಗಳ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿ.

9. Examine the remedies available against violation of human rights in India.
   ಭಾರತದಲ್ಲಿ ಮಾನವ ಹಕ್ಕುಗಳ ಉಲ್ಲಂಘನೆಯ ವಿರುದ್ಧ ಲಭ್ಯವಿರುವ ಪರಿಹಾರಗಳನ್ನು ಪರಿಶೀಲಿಸಿ ಬರೆಯಿರಿ.

IV. **Answer any ONE of the following in 30-35 sentences each.** (15x1=15)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು 30 –35 ವಾಕ್ಯಗಳಲ್ಲಿ ಬರೆಯಿರಿ.

10. Explain the human rights enshrined in UDHR.
    ಮಾನವ ಹಕ್ಕುಗಳ ವಿಶ್ವವ್ಯಾಪ್ತಿ ಘೋಷಣೆಯಲ್ಲಿ ಪ್ರತಿಪಾದಿಸಲಾದ ಮಾನವ ಹಕ್ಕುಗಳನ್ನು ವಿವರಿಸಿ.

11. Explain the composition, power and functions of NHRC.
    ಎನ್.ಎಚ್.ಅರ್.ಸಿ ಯ ಸಂಯೋಜನೆ ಅಧಿಕಾರ ಮತ್ತು ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿ.

PART – B
VALUE EDUCATION

I. **Answer any ONE of the following in not less than a page.** (5x1=5)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು ಒಂದು ಪುಟಕ್ಕೆ ಮೀರದಂತೆ ಬರೆಯಿರಿ.

12. Explain the factors influencing the identity of adolescence.
    ಹದಿಹರೆಯರ ಗುರುತಿನ ಮೇಲೆ ಪ್ರಭಾವ ಬೀರುವ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿರಿ.

13. Explain the goals of counseling.
    ಆಪ್ತಸಮಾಲೋಚನೆಯ ಗುರಿಗಳನ್ನು ವಿವರಿಸಿರಿ.

II. **Answer any ONE of the following in not less than two pages.** (10x1=10)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಯನ್ನು ಎರಡು ಪುಟಕ್ಕೆ ಮೀರದಂತೆ ಬರೆಯಿರಿ.

14. Explain the effects of pre-marital sex.
    ವಿವಾಹ ಪೂರ್ವ ಲೈಂಗಿಕತೆಯ ಪರಿಣಾಮಗಳನ್ನು ವಿವರಿಸಿ.

15. What is drug? Explain the different types of drugs.
    ಮಾದಕ ದ್ರವ್ಯ ಎಂದರೇನು ? ಮಾದಕ ದ್ರವ್ಯದ ವಿಧಗಳನ್ನು ವಿವರಿಸಿರಿ.

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Reg. No: ☐☐☐☐☐

G 735 LA1.2

St Aloysius College (Autonomous) Mangaluru

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

July/August – 2022

ENGLISH

Time: 2½ Hours

Max. Marks: 60

UNIT - I (PROSE)

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

1. According to Aruna Roy _____ theoretically offers every individual an equal voice in deciding our collective future.
2. According to George Orwell what is sports at international level?
3. How is a responsible wife expected to deal with a sick child?
4. What is the only way in which one can avoid the absurd dilemma of the superstitions surrounding the ladder?
5. What does PNs mean in the context of the lesson, 'Black money and Black Economy'?

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

                                                                                          (3x5=15)

1. What solutions does Aruna Roy recommend to ensure that the disadvantaged sections of the society get a better deal?
2. What is the modern world's attitude to superstitions?
3. Judy Brady establishes the fact that a wife is looked upon as a convenient instrument or tool for a husband. How is this done?
4. How does Orwell relate sporting spirit to nationalism?

UNIT - II (POETRY)

II Answer any **TWO** of the following in about 150 words each: (2x5=10)

1. 'The pity of war, the pity of war distilled.' Write a note on the importance of this line in the context of the poem and Owen's poetry in general.
2. Write a short note on the effect that the letter had on the mother according to the poem, 'Come Up from the Fields Father'.
3. How does the speaker of the poem, 'Afterwards' wish to be remembered by his contemporaries after his death?
4. How can life be lost if you are earning your living? Explain with reference to the poem, 'Don't's'.

UNIT - III (SHORT STORY)

III. A Answer any **TWO** of the following in about 120 words each.

                                                                                          (2x5=10)

1. Attempt a character sketch of Skvortsov.
2. Write a note on Lushkov's journey from being in the Russian choir to working at the notary office.

3. Describe the boat's fateful encounter with the canoe the Santa Rosa.
4. The story, 'The Empire of Ants', presents a frightening picture of the ants overrunning the planet. Explain.

UNIT – IV (GRAMMAR AND WRITING SKILLS)

IV A. Fill in the blanks with appropriate articles wherever necessary.
(5x1=5)

1. X-ray examination of a recently discovered painting revealed _____ under image of a woman's face.

2. Frederick Douglass was unquestionably _____ most famous African American of the nineteenth century.

3. The sight of _____ single actor portraying several characters in the same scene is no longer a shock to the average moviegoer.

4. Ragwort was accidentally introduced to _____ New Zealand in the late nineteenth century.

5. _____ plant called the scarlet gilia can have either red or white flowers.

B. Fill in the blanks with suitable prepositions from the list given below.
(5x1=5)

1. On the night before the exam, she was seen pouring _____ the books.

2. _____ being fined, he was sentenced to a term of imprisonment.
3. Peaceful co-existence is possible _____ West and East.
4. He is French, but he has lived for many years _____ Polish people.
5. The children sat _____ the campfire and told ghost stories.
   (through, around, among, between, over, besides, into, within)

C. Add appropriate question tags for the following sentences. (5x1=5)
1. Everyone played well. _____?
2. He knows the answer. _____?
3. Few people thought about it. _____?
4. The present democracy takes us nowhere. _____?
5. He is older than her. _____?

D. Give one-word substitutes for the following from the list given below.
(5x1=5)
1. That which cannot be dealt with successfully.
2. One who believes nothing has any value.
3. Being all of one opinion.
4. Bitter or wounding remark, especially one ironically worded.
5. Something out of its proper time.

(**sojourn, sarcasm, nihilist, ultimatum, unanimous, insurmountable, pacifist, anachronism, aristocracy, idealist**)

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G 736 LA3.2

HINDI

Time: 2½ hrs.

Max Marks: 60

I अ) एक वाक्य में उत्तर लिखिए :　　　　　　　　　　　　　　　(4X1=04)

१. बनावट के विचार से क्रिया के प्रमुख भेद कितने हैं ?

२. एककर्मक क्रिया किसे कहते हैं ?

३. प्रयोग के आधार पर क्रिया के प्रमुख भेद कौन-से हैं ?

४. आसन्न भूतकाल किसे कहते हैं ?

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए :　　　　　　　　　　　　(2X4=08)

१. काल और उसके मुख्य भेदों का परिचय दीजिए ।

२. प्रयोग (वाच्य) के कारण क्रिया भेदों को सोदाहरण समझाइए ।

३. क्रिया की परिभाषा लिखकर, कर्म के आधार पर क्रिया के भेदों को सोदाहरण समझाइए ।

II अ) एक वाक्य में उत्तर लिखिए :　　　　　　　　　　　　　　(4X1=04)

१. स्थानवाचक क्रिया विशेषण किसे कहते हैं ?

२. समुच्चयबोधक अव्यय के कितने प्रमुख भेद हैं ?

३. 'हटदूर चले जाओ' यह वाक्य कौनसा विस्मयादिबोधक अव्यय है ?

४. अव्यय अथवा अविकारी शब्द के प्रमुख कितने भेद हैं ?

आ) किन्हीं दो प्रश्नों का उत्तर लिखिए :　　　　　　　　　　　(2X4=08)

१. समुच्चयबोधक अव्यय की परिभाषा लिखकर भेदों को सोदाहरण समझाइए ।

२. अव्यय या अविकारी शब्द की परिभाषा लिखकर प्रमुख भेदों पर प्रकाश डालिए ।

३. क्रिया विशेषण अव्यय की परिभाषा लिखकर अर्थ के अनुसार भेदों को सोदाहरण समझाइए ।

III अ) एक वाक्य में उत्तर लिखिए :　　　　　　　　　　　　　(3X1=03)

१. जिसके शरीर में विरह का संचार नहीं होता वह किसके समान है ?

२. 'जनक फुलवारी प्रसंग' के रचयिता कौन है ?

३. प्रभु ने जग को लुभाने के लिए कौनसा रूप धारण किया है ?

आ) किसी एक कवि का परिचय लिखिए :　　　　　　　　　　　(1X4=04)

१. तुलसीदास ।

२. मीराबाई ।

इ) किसी एक की संदर्भ सहित व्याख्या कीजिए :　　　　　　　　(1X4=04)

१. "बतरस-लालच लाल की, मुरली धरी लुकाय ।
सौंह करै, भौंहन हँसै, देन कहै, नटि जाय ।।"

२. "धूरि धरत नित सीस पै, कहु रहीम केहि काज ।
जेहि रज-मुनि-पत्री तरी, सौ ढूँढत गज राज ।।"

Contd...2

ई) किसी **एक** प्रश्न का उत्तर लिखिए :   (1X7=07)

१. मीराबाई के पठित पदों का सारांश अपने शब्दों में लिखिए ।

२. कबीर दास के पठित दोहों में अभिव्यक्त कवि के आशय पर प्रकार डालिए ।

IV अ) एक वाक्य में उत्तर लिखिए :   (3X1=03)

१. 'कैकयी का पश्चाताप' कविता के कवि कौन हैं ?

२. 'दोनों ओर प्रेम पलता है' कविता में पतंग किसका प्रतीक हैं ?

३. नर देही क्या कहते आ रहे थे ?

आ) किसी **एक** कवि का परिचय लिखिए :   (1X4=04)

१. हरिवंशराय बच्चन ।

२. अरुण कमल ।

इ) किसी **एक** पद्यांश का संदर्भ सहित व्याख्या कीजिए :   (1X4=04)

१. "कोई न छायादार
पेड़ वह जिसके तले बैठी हुई स्वीकार,
श्याम तन, भर बँधा यौवन,
नत नयन, प्रिय कर्म रत मन ।।"

२. "धर्म-ग्रंथ सब जला चुकी है
जिसके अंदर की ज्वाला,
मंदिर मस्जिद, गिरजे सबको
तोड चुका जो मतवाला ।।"

ई) किसी **एक** प्रश्न का उत्तर लिखिए :

१. "पोस्टर और आदमी" कविता के आधार पर आधुनिक समाज में मनुष्य के अस्तित्व पर प्रकाश   (1X7=07)
डालिए ।

२. "कैकयी का पश्चाताप" कविता का सारांश लिखकर कैकयी के व्यक्तित्व पर प्रकाश डालिए ।

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ಕವನಾಂ– ಯುನಿಟ್ ೧

I   ಖಿಂಚಾಯ್ ಎಕಾ ಕವನಾಚೊ ಸಾರಾಂಶ್ ಬರಯಾ :   (5×1=5)

೧. ಪರ್ದೇಶಾಂತ್ಲ್ಯಾ ಮಂಗ್ಳುರ್ ಪಾವ್ಲ್ಯಾ

ಅಲ್ಲ್ಯಟಾರ್ ಮ್ಹಣ್ ಉದೊನ್ ಥಾಂವ್ಲ್ಯಾಂ

ದಾರಾಂ ಫಿಚಾರ್ ಆಜ್ಯಾಪ್ ಜಾಲೊಂ

ಖಿಂಯ್ಸರ್ ಪಾವ್ಲ್ಯಾ ಚಿಂತುಂಕ್ ಲಾಗ್ಲೊಂ

ಆಕಯ್ ಆಮ್ಚಿ ಆನ್ಯಾ ಆಕಯ್

೨. ಬಾಬಾ, ಬಾಯೆ ಸೊಡಾತ್ ಮ್ಹಾಕಾ

ಕಾನಾಂಕ್ ಮ್ಹಜ್ಯಾ ಧರೊಂ ನಾಕಾ

ದೆವಾ, ತುವೆಂ ಕಾನ್ ದಿಲೆ

ಸೊಸುನ್ ವ್ಹರ್ಚೆಂ ತ್ರಾಣ್ ದಿ.

II. ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ :   (1×5=5)

೧. ಸುಕ್ಣ್ಯಾಪಿಲಾಂ ಕವನಾಚಿ ಕವಿ ಕೋಣ್?

೨. 'ಸೊಂಶಾಚೆ ಕಾನ್ ' ಕವಿತಾ ಪುಸ್ತಕ್ ಕೊಣಾಚೆಂ?

೩. ಸಿಜ್ಕೈಸಾಬ್ಯಾ ಖಿಂಚ್ಯಾ ನಾಟಕಾಕ್ ಗೊಂಯ್ ಕೊಂಕಣಿ ಭಾಷಾ ಮಂಡಳಾಚಿ ಪ್ರಶಸ್ತಿ ಫಾವೊ ಜಾಲ್ಯಾ?.

೪. 'ಪಿತುಳ್ ' ನಾಟಕ್ ಕೊಣೆ ಬರಯ್ಲೊ?

೫. 'ಪಂಚ್ಮಾದಾಯಿ' ಮಹಿನ್ಯಾಳ್ಯಾಚೊ ಸ್ಥಾಪಕ್ ಕೋಣ್?

III ಖಿಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ :   (5×1=5)

೧. ಕವಿ 'ಇಜೊಲಾಚಿ ವಾಟ್ಲಿ ' ಮುಖಾಂತ್ರ್ ಕಿತೆಂ ಸಾಮಾಜಿಕ್ ಚಿತ್ರಣ್ ದಿತಾ, ವಿವರ್ಸಿಯಾ.

೨. 'ಸೊಂಶಾಚೆ ಕಾನ್' ಕವಿತೆಚೊ ಸಾರಾಂಶ್ ಬರಯಾ.

ಗದ್ಯ ಭಾಗ್ ಯುನಿಟ್ –೨

I   ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ :   (1×5=5)

೧. 'ಕೊಂಗ್– ಕೊನಾ– ಪುಲೊ ' ಮ್ಹಣ್ ಕೊಣೆ ಆಪಯ್ಲೆಂ?

೨. ಕಲ್ಹಣಾಚ್ಯಾ ರಾಜ ತರಂಗಿಣಿಂತ್ ಕೊಣಾಚೊ ಉಲ್ಲೇಖ್ ಆಸಾ?

೩. ಖಿಂಚ್ಯಾ ನಂಯ್ ತಡಿರ್ ಕೊಂಕ್ಣಿ ಸಂಸ್ಕೃತಿ ಉದೆಲಿ?

೪. ಖಿಂಚ್ಯಾ ರ್ಘುಜಾನ್ ಕೊಂಕ್ಣಿ ಕ್ರಿಸ್ತಾಂವಾಂಚ್ಯಾ ಬಂಧಡೆಕ್ ಬುನ್ಯಾದ್ ಘಾಲಿ?

೫. ಸಾ. ಫ್ರಾನ್ಸಿಸ್ ಸಾವೆರಾನ್ ಬರಯಿಲ್ಲೊ ಬೂಕ್ ಖಿಂಚೊ?

II. ಖಿಂಚಾಯ್ ಎಕಾಚಿ ಪರಿಚಯ್ ದಿಯಾ:   (5×1=5)

೧. ಸಪ್ತಕೊಂಕಣಾ

೨. ಫಾ. ತೋಮಸ್ ಸ್ಟೀವನ್ಸ್

III ಖಿಂಚಾಯ್ ಎಕಾ ಸವಾಲಾಕ್ ಜಾಪ್ ಬರಯಾ:   (5×1=5)

೧. ಕೊಂಕಣ್ ಪ್ರದೇಶಾಚೆ ಉಲ್ಲೇಖ್ ಕರಾ.

೨. ಕೊಂಕಣಿ ಸಾಹಿತ್ಯಾ ಖಾತಿರ್ ಜೆಜ್ವಿತಾಂಚೊ   ವಾವ್ರ್ ಕಳಯಾ.

ಯುನಿಟ್ –೨   ವ್ಯಕ್ತಿ ಪರಿಚಯ್

I ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ :   (5×1=5)

೧. ಶೆಣೈ ಗೊಂಯ್ ಬಾಬಾಚೆಂ ಪೂರ್ಣ ನಾಂವ್ ಕಿತೆಂ?

೨. ಬಾಪ್ ಮಾಫೇಯಿಚ್ಯಾ ವ್ಯಾಕರಣ್ ಪುಸ್ತಕಾಚೆಂ ನಾಂವ್ ಕಿತೆಂ?

೩. ಖಿಂಚಿಂ ಪುಸ್ತಕ್ ವಾಚುನ್ ಶೆಣೈ ಗೊಂಯ್ ಬಾಬ್ ಪ್ರಭಾವಿತ್ ಜಾಲೊ?

೪. ಬಾಪ್ ಮಾಫೇಯಿಚೆಂ ಪೂರ್ಣ ನಾಂವ್ ಕಿತೆಂ?

೫. ಶೆಣೈ ಗೊಂಯ್ ಬಾಬಾಚ್ಯಾ ಖಿಂಚಾಯ್ ಎಕಾ ನಾಟಕಾಚೊ ಉಲ್ಲೇಖ್ ಕರಾ.

II ಹ್ಯಾ ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ :   (5×2=10)

೧. ಬಾಪ್ ಮಾಫೇಯಿಚ್ಯಾ ಸಾಹಿತ್ಯ್ ವಾವ್ರಾವಿಶಿಂ ವಿವರ್ ದಿಯಾ.

೨. ಶೆಣೈ ಗೊಂಯ್ ಬಾಬಾಚ್ಯಾ ಬಾಳ್ಪಣಾವಿಶಿಂ ಬರಯಾ.

ಯುನಿಟ್ ೪ – ವ್ಯಾಕರಣ್

I ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ :   (5×1=5)

೧. ವಿಶೇಷಣಾಕ್ ಏಕ್ ಉದಾಹರಣ್ ದಿಯಾ.

೨. ಕ್ರಿಯಾಪದ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

೩. ಕೊಂಕ್ಣಿಂತ್ ಕಿತ್ಲೆ ಕಾಳ್ ಆಸಾತ್?

೪. ಕ್ರಿಯಾ ವಿಶೇಷಣ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

೫. 'ಫೆಸ್ತ್ ಸಂಭ್ರಮಾನ್ ಆಚರಣ್ ಕೆಲೆಂ' ಹಾಚೊ ಕಾಳ್ ಕಳಯಾ.

II ಹ್ಯಾ ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ:   (5×2=10)

೧. ಕ್ರಿಯಾ ವಿಶೇಷಣ್ ಆನಿ ತಾಚಿ ಪ್ರಕಾರ್ ಉದಾಹರಣಾ ಸಂಗಿಂ ಬರಯಾ.

೨. ಕೊಂಕ್ಣಿಚಿ ಕಾಳ್ ಉದಾಹರಣಾ ಸಂಗಿಂ ಬರಯಾ.

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UNIT - I (PROSE)

I. A. Answer any **TWO** of the following in about 100-150 words each:

(2x5=10)

1. "Toba Tek Singh" is about the madness of Partition. Comment.
2. How does Manu S Pillai criticize the caste system of Kerala in "Savitri's Revenge"?
3. Describe the changes in attitude that occur as a result of two people from different communities living together with references from the feature "A Hindu and a Muslim Started Living Together".
4. Comment on the significance of the title of the prose "The Ghosts of Mrs. Gandhi" with examples from the text.

B. Answer any **ONE** of the following in about 250-300 words:

(1x10=10)

1. What according to Amitav Ghosh is a writer's responsibility during times of crisis? Contrast Ghosh's ideas with your own examples.
2. "The year was 1905, and scandal was unleashed with a fury unknown." Discuss with reference to "Savitri's Revenge."

UNIT – II (NOVEL)

II. A. Answer any **ONE** of the following in about 250-300 words:

(1x10=10)

1. *Rita Hayworth and Shawshank Redemption* is a novel about hope. Discuss.
2. Critically analyze any two major themes of the novel.

UNIT - III (POETRY)

III. A. Annotate any **ONE** of the following in about 100-150 words each.

(1x5=5)

1. Does my sexiness upset you?
   Does it come as a surprise
   That I dance like I've got diamonds
   At the meeting of my thighs?

   Out of the huts of history's shame
   I rise
   Up from a past that's rooted in pain
   I rise
   I'm a black ocean, leaping and wide,
   Welling and swelling I bear in the tide.

2. And so he spoke, and so he spoke
   That lord of Castamere
   But now the rains weep o'er his hall
   With no one there to hear
   Yes, now the rains weep o'er his hall
   And not a soul to hear

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

1. Comment on the futility of war as expressed by Wilfred Owen in "Strange Meeting".
2. "Still I Rise" is a poem of many metaphors and similes. Discuss.
3. Discuss the universality of the images that E.E Cummings uses in his poetry.

UNIT – IV (Grammar and Writing Skills)

IV. A. Select the appropriate one-word substitutes from the options provided:
(5x1=5)

1. Study of religion. (Pious/Theology/Philosophy)
2. All powerful. (Ominscient/Omnipotent/Omniverse)
3. The study of ancient things. (Anthropology/Archaeology/Sociology)
4. One who is beyond reform. (Institutionalized/Incorrigible/Inept)
5. Writing one's own story. (Bibliography/Autobiography/Biography)

B. Identify the word which does not collocate with the word in bold:
(1x5=5)

1. **Stale:** bread, idea, air, job
2. **Make:** money, way, brush, breakfast
3. **Left:** like, out, behind, turn
4. **Loud:** music, sustain, voice, tie
5. **Silky:** dress, drink, voice, smooth

C. Write a movie-review for any movie that you saw recently.
(1x5=5)

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St. Aloysius College (Autonomous)
Mangaluru

B.A./B.Sc. /B.Com./B.B.A./B.C.A. - Semester II – Degree Examination
July / August - 2022
FRENCH

Time: 2½ hrs.   Max Marks: 60

I.   Répondez aux questions   1x10=10
1. Dans quelle ville la fête de la tomates a commencé?
2. Expliquez le concept de la nuit blanche.
3. Nommez deux monuments célèbres de France.
4. Nommez deux fête importée en France.
5. Quand célèbre t- on La Fête de la Musique?
6. Quelle ville organise-t-elle la nuit blanche?
7. Quand célèbre t- on La Fête Nationale?
8. Écrivez deux journaux nationaux en France?
9. Abel Mutai a gagné la épreuve de cross-country. Vrai ou faux?
10. Qui a signé un contrat de 18millions d'euros?
11. Combien de personne ont visité l'exposition du peintre américain?
12. Expliquez le programme *La grande librarie*.

II. Rèpondez en utilisant les pronoms relatifs qui, que, où.   1x5=5
1. Les stylos .... il se sert sont très chers.
2. J'ai fait tous les exercices ....je devais faire.
3. Je connais un homme _____ parle le russe couramment.
4. J'ai téléphoné à mon ami _____ travaille à ELF.
5. J'entends le poème _____ il a écrit.

III. Construire les phrase en utilisant les adverb suivant.   1x5=5

Rapid, régulier, joli, pure, prudent
                                                                    1x5=5
IV. Mettez les verbes au temps indique
1. Je_____(apprendre- futur simple) des verbes par cœur.
2. Mme. Mathilde_____(aller- futur proche) au restaurant.
3. Mon grand-père_____(se promener-présent) tous les matins.
4. Shan _____(raconter-imparfait) des histoires aux enfants du village.
5. Est-ce-que vous_____(faire-passé composé) des crêpes ?

V.   Complétez avec les pronoms object directs et inderects. (COD & COI) 1x5=5
1) Elle parle à Rémi chaque matin ? Oui, _____.
2) Vous écrivez souvent à vos amis ? Oui, _____.
3) Vous connaissez les enfants de Sarah ? Oui, _____.
4) Attention, tu oublies tes gants ! Oui, _____!
5) Le directeur nous attend à dix heures ? Non, _____ à onze heures.

VI. Vous cherchez du travail en France. Rédigez votre CV.   10x1=10

G 750 LA6.2   10x1=10

VII.   **Dialogue**
1. Au restaurant
2. Au magasin de vêtements   10x1=10

VIII.   **Lisez le texte et répondez aux questions**

Delhi, le 12 avril 2020

Chère Pauline,

Comment ça va ? Je vais bien et mes études vont commencer bientôt. Dans cette lettre, je vais te parler de l'enseignement indien.

L'enseignement en Inde est gratuit, public et obligatoire jusqu'à 14 ans. Il est divisé en trois dégrées : primaire, secondaire et supérieur. Au primaire dégrée, l'enfant peut commencer son parcours scolaires dès l'âge de 2 ans jusqu'à 6 ans avec l'école maternelle, ensuite l'école primaire de 6 ans jusqu'à 10 ans. À l'école secondaire, l'enfant entre en High School à l'âge de 11 à 15 ans, après avoir passé l'examen du certificat de l'école secondaire . L'enfant entre en Higher Secondary School (11e et 12e classe) à l'âge de 15 à 17 ans. Enfin l'enseignement supérieur, qui ouvre la porte du collège et de l'école professionnelle après avoir passé l'examen de 'Higher Secondary'. Au collège, on a des choix entre les Arts et les Sciences et à l'école professionnelle après un concours pour 4-5 ans.

Quand est-ce que tes études vont commencer ? Explique-moi, le système éducatif en France. J'attends pour ta réponse.

Ali

Cher Ali,

Paris, le 19 mai 2020

Comment vas-tu ? Je vais bien ici et mes études ont déjà commencé. Dans cette lettre, je vais te décrire l'enseignement français.

L'enseignement en France est un peu différent de celui en Inde. Il est aussi gratuit, public et obligatoire jusqu'à 16 ans. L'enseignement français est divisé en trois dégrées : primaire, secondaire et supérieur. Au primaire dégrée, l'enfant peut commencer son parcours scolaires dès l'âge de 2 ans jusqu'à 6 ans avec l'école maternelle. Ensuite, l'école primaire de 6 ans jusqu'à 11 ans. À l'enseignement secondaire, l'enfant entre au collège de 11 à 15 ans et puis au lycée à l'âge de 15 à 18 ans après avoir obtenu le diplôme de Brevet en lequel l'enfant a le choix entre le lycée général ou le lycée professionnel. À la fin, l'enseignement supérieur après avoir passé le Baccalauréat qui ouvre la porte de l'Université. Après le Bac, on peut choisir la formation professionnelle, les études de technologie, les lettres, les sciences humains etc.

Donne mes salutations à tes parents !

Amitiée,

Pauline

Répondez aux questions.
1. À quel âge l'enfant commence son parcours scolaire en Inde ?
2. Jusqu'à quel âge l'enseignement en France et en Inde est obligatoire ?
3. L'enseignement français est divisé en combien de niveaux ?
4. Qu'est-ce que c'est 'Higher Secondary' en Inde et 'le Bac' en France ?

     Dites vrai ou faux.
5. Le système scolaire de France et celui de l'Inde sont pareilles.
6. On ne peut pas entrer à l'université française sans avoir passé le Bac.
7. En Inde pour entrer au collège, on a besoin du certificat de l'école secondaire.
8. 7. Ali et Pauline sont les camarades.

     Trouvez dans le texte.
9. La forme nominale du verbe 'enseigner'
10. La forme verbale du nom 'la fin'

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I. ഒന്നോ രണ്ടോ വാകൃത്തിൽ ഉത്തരമെഴുതുക
(5x 1=5)

1. ലാൽമാത്തിയ ജാർഖണ്ഡിലാണെന്നു കേട്ടപ്പോൾ ഗോപാൽ യാദവിന്റെ പ്രതികരണം എന്തായിരുന്നു ?

2. കല്ല്യാണദിവസം പ്രമാണിയോട് മരുമകനെക്കുറിച്ച് ഭാര്യാപിതാവ് പറഞ്ഞതെന്ത് ?

3. ശകുന്തളക്ക് വസ്ത്രങ്ങളും ആഭരണങ്ങളും ലഭിച്ചതെങ്ങിനെ ?

4. കണ്വമഹർഷി ആശ്രമത്തിൽ പ്രവേശിച്ചപ്പോൾ കേട്ട വാർത്ത എന്തായിരുന്നു?

5. പേരാലിൽ അഭയം പ്രാപിച്ച പക്ഷികളുടെ അവസ്ഥയെ കവി വർണ്ണിക്കുന്നതെപ്രകാരം ?

II. മൂന്നെണ്ണത്തിന്റെ സന്ദർഭവും സാരസ്യവും വ്യക്തമാക്കുക
(3x4=12)

6. അവൻ മുന്നിൽ നിന്നപ്പോൾ അത്തറിന്റെ കുപ്പി വീണു പൊട്ടിയതുപോലെ ഗോപാൽയാദവിന് തോന്നി..

7. നീ ജീവിതത്തിന്റെ ഓരോ പടവും കയറിപ്പോയപ്പോൾ ഞങ്ങളെത്ര സന്തോഷിച്ചു..

8. ഏറ്റ വസ്തു തിരികെ കൊടുത്തപോൾ
ഏറ്റവും തെളിമ പൂണ്ടിതെൻ മനം

9. ഇന്നലെ ചെയ്യ്തോരബന്ധം മൂഢർ–
ക്കിന്നത്തെ ആചാരമാവാം
നാളത്തെ ശാസ്ത്രമതാവാം അതിൽ
മൂളായ്ക സമ്മതം രാജൻ.

III. രണ്ടെണ്ണത്തിനു ഒരുപുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക
(2x8=16)

10. സിനാൻ എന്ന ചെറുപ്പക്കാരന്റെ പ്രത്യേകതയെന്ത് ?

11. പിതാവ് മകനെ കാണുബോൾ ചോദിക്കാൻ മനസ്സിൽ കരുതിയതെന്തെല്ലാം?

12. ഒരു ആചാര്യനെയും പിതാവിനെയും കണ്വമഹർഷിയിൽ കാണുവാൻ സാധിക്കുന്നു–വിശദമാക്കുക

IV. രണ്ടെണ്ണത്തിനു രണ്ടുപുറത്തിൽ കവിയാതെ ഉപന്യസിക്കുക
(2x10=20)

13. ശകുന്തള ആശ്രമത്തിനോട് വിടവാങ്ങുന്ന രംഗം ശാകുന്തളത്തിൽ ആവിഷ്ക്കരിച്ചിരിക്കുന്നതെപ്രകാരം ?

14. ജാതിയുടെ നിർത്ഥകത വ്യക്തമാക്കുന്ന ഒരു കാവ്യമെന്ന നിലയിൽ ചണ്ഡാലഭിക്ഷുകിയുടെ പ്രത്യേകതകൾ വിലയിരുത്തുക

15. ബിരിയാണി എന്ന കഥ നൽകുന്ന സന്ദേശമെന്ത് ?

V. മലയാളത്തിലേക്ക് തർജുമ ചെയ്യുക
(7)

16. It was Gandhiji who developed Ahimsa or Nin –Violence as a powerful weapon. Using this weapon he won freedom for India. He was highly conscious about inner meaning of Ahimsa. Gandhiji followed the path of Ahimsa as preached by Sreebhudh. Ahimsa is a reflection of kindness shown towards all living beings. An ideal human being is a person who follows Ahimsa both in words and actions. It was when Ahimsa witnessed the sight of thousands of corpses at the battle field of Kalinga that he realized the true meaning of violence. The conscious stricken emperor then decided to accept the path of Sreebhudha.