G 501.3 (2014 Batch Onwards)

Reg. No. : | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III– Degree Examination

February - 2022

PHYSICS

ACOUSTICS, OPTICS AND NETWORKS

Time: 3 hrs. **Max Marks: 100**

SECTION – A

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

a) What are damped oscillations?

b) Write an expression for velocity of longitudinal wave in a solid. Explain the terms.

c) Write the differential form of progressive wave equation and explain the terms.

d) What is quality factor? Write an expression for it.

e) Why Newton's rings are circular?

f) Why does a soap film exhibit colours when illuminated by white light?

g) What is Fraunhoffer diffraction?

h) What is double refraction?

i) State superposition theorem.

j) Define the terms node and loop.

k) What are retarding plates?

l) What is grating constant?

SECTION B

Answer TWO full questions from each unit:

UNIT – I

2.a) Derive an expression for the velocity of longitudinal waves in a fluid. **(6)**

b) Distinguish between free vibrations and forced vibrations. State the conditions for resonance. **(4)**

3.a) Derive an expression for the amplitude of forced vibrations of a body and explain the phenomenon of resonance. **(6)**

b) Deduce Newton's formula for velocity of sound in air. **(4)**

4.a) Derive an expression for the velocity of transverse waves in a stretched string. **(6)**

b) State and explain the laws of transverse vibrations in a string. **(4)**

Contd....2

UNIT – II

5.a) Give the theory of Newton's rings and obtain expression for the diameter of the rings. (6)

b) Explain why a thin film appears coloured when viewed in reflected light. (4)

6.a) Give Fresnell's theory of rectilinear propagation of light. (6)

b) Compare prism spectra and grating spectra. (4)

7.a) Explain how do you distinguish between plane polarized, circularly polarized and elliptically polarized light. (6)

b) What is a quarter wave plate? Derive an expression for its thickness. (4)

UNIT – III

8.a) Explain with an example, analysis of an electrical network using mesh equation. (6)

b) State and explain Norton theorem with an example. (4)

9.a) State maximum power transfer theorem and prove it in case of DC network. (6)

b) State and explain Millman theorem with an example. (4)

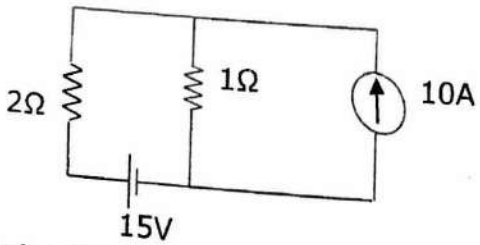
10.a) Explain with equations, star to delta and delta to star conversions. (6)

b) Explain h-parameters for a two part network. (4)

SECTION – C

Answer any <u>FOUR</u> of the following: **(4×5=20)**

11. A wire of density 7000kghm^3, 1m long and 2mm in diameter is stretched by a weight of 10kg. Calculate the frequency of the first overdone.
12. Newton's rings are formed with a light of wavelength 670nm. The radius of the 20th dark ring is found to be 1.1mm. Find the radius of the 30th ring.
13. Monochromatic light of wavelength 656nm falls normally on a grating 2cm wide. The first order spectrum is produced at an angle 18.25° from the normal. Find the total number of lines on the grating.
14. Calculate the thickness of a double refracting plate capable of producing a path difference of λ/4 between the extraordinary and ordinary rays. Given λ=5890A°
15. Using superposition theorem, find the current in 1Ω resistance in the circuit given below.



16. Plane polarized light of wavelength 590nm passes through a quartz plate with its optic axis parallel to the faces. Calculate the least thickness of the plate for which the emergent beam will be plane polarized. ($\mu_e = 1.5534, \mu_0 = 1.5443$)

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(2020 batch only)

G 502.3 Reg. No.

St Aloysius College (Autonomous)
Mangaluru
B.Sc. semester III – Degree Examination
February - 2022
CHEMISTRY

Time: 3 hrs. **Max Marks: 100**

Instructions: 1. Write the question number and subdivision clearly.
2. Write equations and diagrams wherever necessary.
3. Answer Part- A in the first two pages of the answer book.

PART - A

Answer any TEN of the following questions in 1 to 3 sentences. **(2×10=20)**

1. a) What is first order reaction? Give the unit of first order reaction.
   b) Give any two characteristics of enzyme catalysts.
   c) State Le Chatelier's principle.
   d) Give reason: Transition elements exhibit metallic character.
   e) What is lanthanide contraction?
   f) Write the general electronic configuration of actinides.
   g) Which are the electrophiles generated during nitration and sulphonation of benzene?
   h) Write the structure of phenanthrene.
   i) What is Hofmann rearrangement?
   j) Give any two differences between absorption and emission spectra.
   k) What is the advantage of DTG over TGA?
   l) What is the effect of heating rate on a DTA curve?

PART - B

Answer any TEN of the following questions in 3 to 5 sentences. **(3×10=30)**

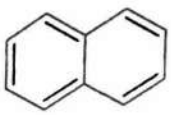
2. (i) A second order reaction with two reactants is started with 0.1M concentration of each. Its velocity constant is found to be 0.03707 $mol^{-1}\ dm^3\ min^{-1}$. Calculate the half life of the reaction.
   (ii) Give Michaelis-Menten equation and explain the terms.
   (iii) Derive vant Hoff's reaction isochore.
   (iv) Account for the catalytic property of d-block elements.
   (v) Give any three dissimilarities between lanthanides and actinides.
   (vi) Calculate the magnetic moment of Pr^{3+} ion (Given: Atomic number of Pr = 59, L=5, g=4/5).

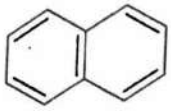
Contd....2

G 502.3

(vii) Explain the effect of ortho- para directing substituent on aromatic electrophilic substitution with an example.

(viii) Predict the products of the following reactions.

a)  $\xrightarrow[165^{o}C]{H_2SO_4}$?

b)  $\xrightarrow[CH_3COOH]{CrO_3}$?

(ix) Give the mechanism of pinacol-pinacolone rearrangement.

(x) Give any three applications of Atomic Absorption Spectroscopy.

(xi) Describe the TG curve of calcium oxalate monohydrate.

(xii) Explain Power-compensated DSC instrument.

PART - C

Answer any <u>TEN</u> of the following questions. **(5×10= 50)**

3. Derive Eyring's equation.
4. Derive an expression for rate constant of second order reaction, when concentration of both the reactants are same.
5. Write the derivation of Clapeyron equation.
6. Describe the oxidation states of d-block elements.
7. Compare the properties of 3d series elements with those of 4d and 5d series of elements.
8. Explain the separation of lanthanides by ion-exchange method.
9. What is Friedel Craft's acylation? Give the mechanism for the same.
10. Explain Haworth synthesis of naphthalene.
11. Give intermolecular and intramolecular mechanism of Fries rearrangement.
12. Explain the principle of flame photometry.
13. Describe the instrumentation of Plasma Emission Spectroscopy.
14. Describe the instrumentation of TGA.

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(2014 Batch Onwards)

G 503.3 Reg. No. : | | | | | | |

St. Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

February - 2022

MATHEMATICS

NUMBER THEORY, GROUP THEORY AND MULTIVARIATE CALCULUS

Time: 3 Hours **Max. Marks: 100**

Note: Answer all parts

PART – A

Answer any TEN of the following: **(10×2½=25)**

1. Find the remainder when $1! + 2! + 3! + \cdots + 99! + 100!$ is divided by 12.
2. Solve the linear congruence $6x \equiv 15\ (mod\ 21)$.
3. If 'p' is a prime and 'a' is an integer, then prove that $a^p \equiv a\ (mod\ p)$.
4. Show that G is abelian group if and only if $(ab)^2 = a^2b^2, \forall a, b \in G$.
5. State and prove right cancellation law in a group.
6. Prove that if G is a cyclic group then G is abelian.
7. Given $F(x) = \sin^{-1} x$ and $G(x, y, z) = \sqrt{x^2 + y^2 + z^2 - 4}$, find the domain of $F \circ G$.
8. Show that $\lim_{(x,y)\to(0,0)} \frac{xy}{x^2+y^2}$ does not exist.
9. If $f(r, \theta) = r\tan\theta - r^2 \sin\theta$, find $f_2(3, \pi)$.
10. Find the linearization of $f(x, y, z) = x^2 - xy + 3\sin z$ at the point $(2, 1, 0)$.
11. Find the equation of tangent to the ellipse $\frac{x^2}{4} + y^2 = 2$ at the point $(-2, 1)$.
12. Find the critical point of $f(x, y) = 6x - 4y - x^2 - 2y^2$.
13. Evaluate $\int_0^1 \int_0^1 \int_{-1}^1 xyz\ dz\, dy\, dx$.
14. Find the volume of the solid bounded by the surface $f(x, y) = 4 - \frac{x^2}{9} - \frac{y^2}{16}$, the planes $x = 3$ and $y = 2$ and the three coordinate planes.
15. Using double integral find area enclosed by $r = \cos\theta$ and the lines $\theta = 0$ and $\theta = \frac{\pi}{6}$.

PART – B

UNIT - I

Answer any THREE of the following: **(3×5=15)**

1. Let $N = a_m 10^m + a_{m-1} 10^{m-1} + \cdots + a_1 10 + a_0$ be the decimal representation of the positive integer $N, 0 \le a_k < 10$ and let $S = a_0 + a_1 + \cdots + a_n$ then prove that $9|N$ if and only if $9|S$.

Contd...2

2. State and prove Fermat's little theorem.
3. If p is a prime, then prove that $(p-1)! \equiv -1 \ (mod\ p)$.
4. Prove that the linear congruence $ax \equiv b(mod\ n)$ has a solution if and only if $d|b$ where $d = g.c.d\ (a,n)$. If $d|b$ then prove that the congruence has d mutually incongruent solutions modulo n.
5. Solve the system of congruences $x \equiv 1(mod\ 3),\ x \equiv 2(mod\ 5),\ x \equiv 3(mod\ 7)$.

UNIT – II

Answer any <u>THREE</u> of the following: **(3×5=15)**

1. Define center of a group G and prove that it is a subgroup of G.
2. Let H and K be subgroups of a group G. Then prove that HK is a subgroup of G if and only if $HK = KH$.
3. Let G be a group and $a \in G$. Then prove that the set $H = \{a^n / n \in \mathbb{Z}\}$ is a subgroup of G and it is the smallest subgroup of G containing a.
4. State and prove Lagrange's theorem.
5. Let G be a cyclic group and H be a subgroup of G. Then prove that H is cyclic.

UNIT – III

Answer any <u>THREE</u> of the following: **(3×5=15)**

1. Show that the function $f(x,y) = \frac{2x^2y}{x^4+y^2}$ has no limit as (x,y) approaches $(0,0)$.
2. Given $f(x,y) = \begin{cases} \frac{xy}{x^2+y^2}, & if\ (x,y) \neq (0,0) \\ 0, & if\ (x,y) = (0,0) \end{cases}$. Prove that $D_1f(0,0)$ and $D_2f(0,0)$ exist but f is not differentiable.
3. Using $\epsilon - \delta$ definition of limits, prove that $\lim_{(x,\ y)\to(1,\ 2)}(3x^2 + y) = 5$.
4. Given $f(x,y) = e^x \sin y + \ln xy$ find $D_{11}f(x,y)$ and $\frac{\partial^2 f}{\partial x\, \partial y}$.
5. Given $u = \ln\sqrt{x^2+y^2},\ x = re^s,\ y = re^{-s}$ find $\frac{\partial u}{\partial r}$ and $\frac{\partial u}{\partial s}$.

UNIT – IV

Answer any <u>THREE</u> of the following: **(3×5=15)**

1. Find the directional derivative of $f(x,y) = x^2 \sin 2y$ at the point $\left(1, \frac{\pi}{2}\right)$ in the direction of $v = 3i - 4j$.
2. Find the equation of the tangent plane to the elliptic paraboloid $4x^2 + y^2 - 16z = 0$ at the point $(2,4,2)$. Hence find the symmetric equations of the normal line.
3. If $f(x,y) = 2x^4 + y^2 - x^2 - 2y$, determine the relative extrema of f, if there are any by using second derivative test.

Contd...3

4. Find the absolute maxima and minima of $f(x,y) = x^2 - xy + y^2 + 1$ on the closed triangular plate in the first quadrant bounded by the lines $x = 0$, $y = 4, y = x$.
5. Find symmetric equations of the tangent line to the curve of intersection of the surfaces $3x^2 + 2y^2 + z^2 = 49$ and $x^2 + y^2 - 2z^2 = 10$ at the point $(3, -3, 2)$.

UNIT – V

Answer any THREE of the following: **(3×5=15)**

1. Find an approximate value of the double integral $\iint_R (xy + 3y^2)\, dA$, where R is the rectangular region having the vertices $(-2, 0)$ and $(4, 6)$. Take a partition of R formed by the lines $x_1 = -2, x_2 = 0, x_3 = 2, y_1 = 0, y_2 = 2, y_3 = 4$ and (x_i, y_i) at the center of the i^{th} sub region.
2. Find the area of the surface in the first octant that is cut from the cylinder $x^2 + y^2 = 9$ and the plane $x = z$.
3. Find by double integration area of the region in the xy –plane bounded by the curves $y = x^2$ and $y = 4x - x^2$.
4. Evaluate the volume of the solid above the xy –plane bounded by the elliptic paraboloid $z = x^2 + 4y^2$ and the cylinder $x^2 + 4y^2 = 4$.
5. Evaluate $\int_0^1 \int_0^x \int_0^{x+y} (x + y + z)\, dz\, dy\, dx$.

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(2015 Batch onwards)

G 504.3 Reg. No.

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

February /March - 2022

ELECTRONICS

Linear Integrated Circuits and Applications, Sequential Logic Circuits and Logic Families

Note: This question paper has THREE sections. Section A, Section B and Section C. Answer all sections.

Time: 3 hrs. **Max Marks: 100**

SECTION – A

1. Choose the correct answer from the choices given at the end of each question and write the correct answer. (12x1=12)

i) The minimum number of flip-flops required for the mod -10 ripple counter ____.

a) 4 b) 2 c) 10 d) 5

ii) ____ oscillator uses lead lag network in its feedback path.

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

iii) An Op-amp in open loop configuration can be used as___.

a) Schmitt trigger b) limiter c) comparator d) Oscillator

iv) Input is applied to _____ pin of 555 IC.

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

v) The phase shift introduced by the feedback network in a Phase shift oscillator is

a) 60° b)90° c) 180° d) 30°

vi) The terminal count of a mod-13 binary counter is_____

(a) 0000 (b) 1111 (c) 1101 (d) 1100

vii) _____logic family has minimum power dissipation.

a) ECL b) TTL c) CMOS d) RTL

viii) A CMOS logic gate consists of _____

(a) only NMOS FETs (b) only PMOS FETs

(c) PMOS and NMOS FETs (d) none of the above

ix) The circuit used to get a triangular wave output from square wave input is ___

a) Integrator b) Differentiator c) Adder d) Substractor

x) A non-inverting amplifier has R_1 of 1 kΩ and R_F of 100 kΩ. The closed-loop voltage gain is _____

a)100,000 b)1000 c)101 d)100

xi) Band width of an ideal op-amp is ___

a) Infinite b) Zero c) Very high d) Very low

Contd...2

xii) The feedback factor of a voltage shunt feedback amplifier using op-amp with R_1=40k and R_F=60k is _____

a) 0.6 b) 0.4 c) 1.33 d) 1

2. Answer any <u>TEN</u> questions. **(10x1=10)**

i) What is meant by a synchronous input?

ii) What is meant by balanced output in a difference amplifier using BJTs?

iii) Calculate the pulse width of a Monostable Multivibrator. Given R = 10kΩ and C = 0.01μF.

iv) What is meant by epitaxial layer?

v) Write the circuit diagram of RTL NAND gate.

vi) What is meant by a register?

vii) What is the function of a program counter?

viii) What is meant by Butterworth filter?

ix) State Barkhuaussen criterion for sustained oscillations in an oscillator.

x) Define CMRR of an op-amp.

xi) What is the limitation of basic Op-amp differentiator?

xii) Write any one advantage of active filters over passive filters.

3. Answer any <u>TEN</u> questions. **(10x2=20)**

i) Draw the internal block diagram of Op-amp.

ii) Mention any two advantages of a voltage follower using op-amp over the emitter follower.

iii) Mention any two characteristics of a comparator.

iv) Mention any two advantages of TTL logic gates over RTL logic gates.

v) Mention any two differences between synchronous and asynchronous counters.

vi) Explain input offset voltage of an op-amp.

vii) Give the classification of IC's based on the scale of integration.

viii) Draw the circuit diagram of a practical integrator.

ix) Calculate the frequency of oscillations in a Colpitts oscillator with L=10 μH, C_1=0.01μF and C_2=0.001μF.

x) With a circuit diagram explain how a summing amplifier using op-amp in inverting configuration can be converted into an averager?

xi) List the various steps involved in fabrication of a diode.

xii) Draw the ideal frequency response curves of low pass and high pass filters.

Contd...3

SECTION – B

4. Answer any SEVEN questions. **(7x4=28)**

i) The differential gain of an difference amplifier is 470. The output voltage for a common mode input of 1V is 0.1V. Calculate the CMRR and express it in dB

ii) With necessary circuit diagram explain the action of a zero-crossing detector using op-amp.

iii) With a circuit diagram explain the working o fan Astable Multivibrator.

iv) Draw the circuit diagram of a 3-input summing amplifier using op-amp in inverting configuration and obtain the expression for its output voltage.

v) With a circuit diagram, explain the action of a Wien bridge oscillator.

vi) Write a note on Logic Micro operations.

vii) With the help of necessary circuit diagram obtain the expression for the output resistance of a voltage series feedback amplifier using op-amp.

viii) With circuit diagram and input/output waveforms, explain positive side limiter.

ix) With necessary circuit diagrams explain the characteristics of inverting and non inverting amplifiers using op-amp in open loop configuration.

x) Mention any four advantages of ICs over discrete component circuits.

SECTION – C

Answer any THREE full questions. **(10x3=30)**

5. a) With the circuit diagram explain the working of a Phase shift oscillator using Op-amp. Give the expression for its frequency of oscillations. **(6)**

b) Design a first order Butterworth low pass filter with cut-off frequency of 20 kHz with a pass band gain of 8. Assume C=0.1μF. **(4)**

6. a) Draw the circuit of a differentiator using op-amp. Obtain the expression for its output voltage. **(6)**

b) Write a note on subtractor using op-amp. **(4)**

7. a) Design a mod-8 counter using JK flip flops. **(6)**

b) Explain with neat diagram DTL NAND gate. **(4)**

8. a) Draw the circuit diagram of a difference amplifier using op-amp and obtain the expression for its closed loop gain. **(6)**

b) Design a non inverting summing amplifier to add three input signal voltages. **(4)**

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(2019-20 Batch)

G 505.3 Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

February - 2022

COMPUTER SCIENCE

JAVA PROGRAMMING

Time: 3 Hours. **Max Marks: 100**

PART –A

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

a) Write the purpose of ceil(x) and floor(x) math functions available inJava.

b) Write the purpose of any two java statements.

c) Write the purpose and example of instanceof operator.

d) What is the purpose of constructor?

e) What is the use of finalize() in Java?

f) What are static variables?

g) List any four API packages in Java.

h) Write any two advantages of vectors over arrays.

i) What is Wrapper class? Give example.

j) What is the purpose of try and catch block?

k) What is the difference between suspending and stopping threads?

l) Write the purpose and definition of paint() method .

PART –B

Answer any ONE FULL question from each unit. **(4x20=80)**

UNIT - I

2. a) Explain different relational and logical operators in Java. **(8)**

b) Explain the use of labelled continue statement with example. **(6)**

c) Explain for loop with syntax and example. **(6)**

3. a) Explain different types of if statements available in Java with example. **(8)**

b) What is type casting? Explain automatic type casting with example. **(6)**

c) List and explain primitive data types in Java. **(6)**

UNIT – II

4. a) Explain constructor overloading with suitable example. **(8)**

b) What is class? Explain how objects are created in Java with example. **(6)**

c) Explain the use of final variables, final methods and final classes with example. **(6)**

5. a) What is inheritance? Briefly explain different forms of inheritance. **(8)**

b) What is an abstract class? What are its features? Give example. **(6)**

c) Explain method overriding with suitable example. **(6)**

Contd...2

UNIT – III

6. a) Explain the creation and implementation of interface with suitable example. **(8)**

   b) How do you declare and initialize one dimensional array? Explain with example. **(6)**

   c) List and explain any five string methods with syntax and example. **(6)**

7. a) How do you create and use a package in Java? Explain with example. **(8)**

   b) List and explain any five vector methods. **(6)**

   c) How do you achieve hiding of classes? Explain with example. **(6)**

UNIT – IV

8. a) Explain applet life cycle with a neat diagram. **(8)**

   b) List and explain any five built in exceptions. **(6)**

   c) What is synchronization? How do you achieve it? Explain with example. **(6)**

9. a) Explain the creation of threads by implementing Runnable interface. **(8)**

   b) Explain finally statement with syntax and example. **(6)**

   c) Write a note on JDBC connectivity model. **(6)**

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8

(2016 Batch Onwards)

G 506.3 Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

February - 2022

STATISTICS

STATISTICAL INFERENCE - I

Time: 3 Hours. **Max Marks: 100**

Note: Answer all parts

PART – A

I. Answer any TWELVE of the following: **(2x12=24)**

1. If X is a normal variate with mean μ and variance σ^2 what is the distribution of $((X-\mu)/\sigma)^2$?
2. If F~F(n_1, n_2) write down the p.d.f of $\frac{1}{F}$.
3. If X_1 and X_2 is a random sample of size 2 from $N(\mu, \sigma^2)$ distribution. What is the variance of $(X_1 - X_2)$.
4. If t is a Student's t variate with parameter n , what is the distribution of t^2 ?
5. Write down the p.d.f of n^{th} order Statistic.
6. State Weak Law of Large numbers.
7. State Markov's inequality.
8. State central limit theorem
9. Let T_n be unbiased for θ and Let $g(\theta)=\theta^2$. Show that $g(T_n)$ is positively biased for $g(\theta)$.
10. Distinguish between an estimator and estimate.
11. Does consistency implies unbiasedness? Justify your answer.
12. State Fisher Neyman criterion in sufficiency.
13. Write the 100(1-α)% confidence interval for the population mean.
14. Find the sufficient statistic for 'X' when X is a Poisson variate.
15. Find the m.l.e of p, when the observations are drawn from a Bernoulli distribution.

PART – B

II. Answer any SIX of the following. **(6x6=36)**

16. Derive the distribution of $\frac{ns^2}{\sigma^2}$ under the assumption of independence of $\bar{X}$ and s^2 when sampling from normal population.
17. Derive the p.d.f of a Chi-square variate with 'n' degree of freedom.
18. Find the mean of F distribution with n_1 and n_2 d.f.
19. Obtain the variance of t distribution.
20. Let $X_1, X_2, \ldots\ldots, X_n$ be a random sample from $U\left(\theta - \frac{1}{2}, \theta + \frac{1}{2}\right)$. Find the moment estimator of θ.

Contd...2

21. If x_1, x_2 are sample observations from N(μ, σ^2) and $T_1 = \frac{x_1+x_2}{2}$, $T_2 = \frac{x_1+2x_2}{3}$, then find relative efficiency of T_1 with respect to T_2.

22. Let $X_1, X_2, \ldots\ldots, X_n$ be a random sample from Normal distribution. Find the m.l.e of μ and σ^2.

23. Derive 100(1-∝)% confidence interval for the ratio of variances of two independent normal populations with known means. What changes has to be made in the confidence interval if means are unknown?

24. Find the moment estimator of parameter when the observations are drawn from a Gamma distribution.

PART – C

III. Answer any <u>FOUR</u> of the following. **(10x4=40)**

25. Derive the p.d.f of F distribution.

26. Derive an expression for the even ordered moments of t distribution and hence find the mean and variance.

27. a) State and prove Tchebycheff's inequality. **(6)**

    b) Let$\{X_i\}$, $i = 1,2, \ldots..n$ are independent random variables taking values i and -i with equal probabilities, show that the variables do not agree with weak law of large numbers. **(4)**

28. a) Show that in sampling from Normal distribution, sample variance is a consistent estimator of population variance. **(7)**

    b) State Neymann Pearson Fundamental Lemma. **(3)**

29. a) Explain moment method of estimating parameters. **(5)**

    b) Show that the sum of the items of a random sample of size 'n' from an Exponential distribution with p.d.f f(X;θ) = $\frac{1}{\theta}e^{-\frac{x}{\theta}}$; X>0 is a sufficient statistic for θ. **(5)**

30. a) Derive 100(1-∝)% central confidence interval for the difference in means of two independent normal populations with unknown mean but common variance. **(5)**

    b) Derive 100(1-∝)% confidence interval for the population proportion based on large sample. **(5)**

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G 507.3

(2020 Batch Onwards)

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III– Degree Examination

February - 2022

BOTANY

PTERIDOPHYTES, GYMNOSPERMS, MORPHOLOGY & EMBRYOLOGY OF ANGIOSPERMS

Time: 3 Hours. **Max Marks: 100**

Note: i) Answer all the sections.
ii) Draw diagrams wherever necessary.

SECTION –A

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

1) Write any two significances of Heterospory.
2) Define Apogamy. Give one example.
3) Name the types of Embryos in Pteridophytes.
4) Define Petrifaction.
5) Give any two Angiospermic features of *Gnetum*.
6) Write any two salient features of the class Cycadopsida.
7) Write the features of Thyrsus inflorescence.
8) Name the types of fixation of anther.
9) What is meant by Sorosis? Give one example.
10) Define Hydrophily, give one example.
11) Mention any two contrivances for self pollination.
12) Name the parts of Monocot Embryo.

SECTION – B

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

1) Explain the Morphology of sporophyte of *Rhynia*.
2) Give an account of morphology and anatomy of sporophyll of *Pteris* with a neat labelled diagram.
3) Explain morphology of *Cycadoidea* and *Medullosa*.
4) Explain male cone of *Cycas*.
5) Explain – a) Papilionaceous corolla b) Bilabiate Corolla.
6) Explain any three aerial root modifications.
7) Explain the structure of monocot seed. Add a note on its development.
8) Describe contrivances for cross pollination.

SECTION – C

III Answer any FIVE of the following. **(5x10=50)**

1) Explain H.L.S of sporocarp of *Marsilea* with a neat labelled diagram.
2) Describe external features of sporophyte of Selaginella and add a note on anatomy of rhizophore.
3) Write the morphology of female cone of Pinus. Add a note on ovuliferous scale.
4) Describe in detail male cone and female cone of *Gnetum*.
5) Explain the types of dry indehiscent fruits.
6) What is meant by placentation? Explain its types.
7) Explain the development of dicot embryo.
8) Describe Polygonum type of development of female gametophyte.

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10

(2014 -2020 Batch)

G 508.3

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

February - 2022

ZOOLOGY

COMPARATIVE ANATOMY AND ANIMAL PHYSIOLOGY

Time: 3 Hours. **Max Marks: 100**

Note: i) Answer any TEN questions from PART A and ONE FULL question from each unit of PART B.

ii) Draw diagrams wherever necessary.

PART –A

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

a) Define bilateral symmetry. Give an example.

b) What is a pronephric Kidney? Give two examples.

c) Name the heart chambers of amphibians and birds.

d) Write a note on Marasmus.

e) Define external and internal respiration

f) Mension any two factors that help to maintain homeostasis

g) What is myocardial infarction ?

h) What is Uricotelism ? Give two examples for uricotelic animals.

i) Name the proteins found in striated muscles

j) What are neurotransmitters? Give two examples.

k) Define chemoreceptors with an example

l) Write the functions of ADH and Oxytocin

PART – B

Select ONE full question from each unit.

Unit I

II a) Discuss the changes in anatomical details of heart of vertebrates with suitable diagrams. **(10)**

b) Write the differences between biradial symmetry and bilateral symmetry. Give two animal examples for each. **(5)**

c) Explain briefly the structure of metanephric kidney **(5)**

OR

III a) Compare the brain of mammal with that of a reptile. **(10)**

b) How anatomically and functionally mesonephric kidney is different from others. **(5)**

c) Explain the different types of body plans in animals with suitable examples. **(5)**

Contd...2

G 508.3

Unit II

IV a) Give an accout of the homeostatic function of liver and pancreas in the regulation of blood sugar. **(10)**

b) Describe the process of digestion of proteins in the gastrointestinal tract. **(5)**

c) Give a comprehensive account of respiratory pigments in animals. **(5)**

OR

V a) Explain oxygen dissociation curves with a graphic illustration. **(10)**

b) Give an account of hormonal control of digestion **(5)**

c) Write a note on obesity and Kwashiorkor **(5)**

Unit III

VI a) Discuss the origin and conduction of heart beat. **(10)**

b) Write a short notes on: **(5)**

i) Nephritis **ii)** Renal failure-acute and chronic

c) Explain the mechanism of muscle contraction. **(5)**

OR

VII a) Explain counter-current multiplier system. **(10)**

b) Give an account of leucocytes and blood platelets. **(5)**

c) Write notes on **i)** Muscle tetanus **ii)** Rigor mortis. **(5)**

Unit IV

VIII a) With a neat labelled diagram explain the structure of Human eye. **(10)**

b) Name any four hormones secreted by adenohypophysis. List two functions of each hormone. **(5)**

c) Give an account of different types of neurons. **(5)**

OR

IX a) Enumerate the functions of the hormones secreted by the thyroid gland. **(10)**

Add a note on the effects of hyposecretion and hypersecretion of thyroxin.

b) Explain the structure and function of statocysts. **(5)**

c) Define action potential. Explain the characteristic behaviour of a neuron during action potential. **(5)**

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11

G 509.3

(2019 Batch Onwards)

Reg. No.: | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III – Degree Examination

February - 2022

MICROBIOLOGY

MICROBIAL PHYSIOLOGY AND METABOLISM

Time: 3 Hours. **Max Marks: 100**

Instructions: Answer PART A AND B AND C
Draw Diagrams wherever necessary.

PART – A

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

a) Feedback inhibition
b) ATP in metabolism
c) How many Acetyl CoA are generated by a single molecule of glucose in Glycolysis?
d) Homolactic fermentation
e) Reaction centers in photosynthesis
f) Mention 2 uses of biofilms
g) Nitrogenase
h) Eutrophication
i) How are ligases different from lyases?
j) Response regulators
k) Photophosphorylation
l) Anammox

PART – B

Answer 'a' or 'b' and 'c' is compulsory from each unit. **(15x4=60)**

UNIT -I

2. a) Elaborate on the importance of ATP as energy rich molecules in metabolism. **(9)**

OR

b) How are enzymes classified?

c) Write a note on allosteric regulation. **(6)**

UNIT –II

3. a) Elaborate on Oxidative phosphorylation and its bioenergetics. **(9)**

OR

b) Explain Kreb's cycle.

c) Differentiate between respiration and fermentation. **(6)**

UNIT –III

4. a) Write a detailed note on the photosynthetic apparatus in prokaryotes. **(9)**

OR

b) What are the factors affecting biofilm development?

c) How do purple sulphur bacteria photosynthesize? **(6)**

UNIT –IV

5. a) Describe the symbiotic process of nitrogen fixation. **(9)**

OR

b) Write a note on electron flow in Nitrogen fixation.

c) What are the consequences of acid rain? **(6)**

PART – C

Answer any <u>FOUR</u> of the following. **(5x4=20)**

6. a) Lactic acid fermentation.
b) Green sulphur bacteria.
c) Leghaemoglobin.
d) Global warming.
e) Bacterial photosynthetic pigments.
f) Glycolysis.

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12

G 510.3

(2019 Batch onwards)

Reg. No. : | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III - Degree Examination

February - 2022

BIOCHEMISTRY

ENZYMOLOGY

Time: 3 Hours **Max. Marks: 100**

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

PART – A

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

a) Write any two roles of metal ions as cofactors.

b) Define Holoenzyme.

c) What is turn over number? Give one example.

d) Give two examples of enzyme catalysed reaction.

e) Give two examples for irreversible inhibitors of enzymes.

f) What is specific activity? Give one example.

g) Give one example for coenzyme and its role in metabolic pathway.

h) What are metalloenzymes? Give one example.

i) What are negative allosteric modulators? Give one example.

j) What is activation energy?

k) What are ribozymes? How are they different from enzymes?

l) What is an active site of an enzyme?

PART – B

Answer any SIX of the following. **(5x6=30)**

2. Give an account on Multienzyme complex and Multifunctional enzymes.
3. Write a note on types of enzyme specificity.
4. Explain Lock and key model and Koshland's induced fit theories
5. Write a note on physiological significance of Trypsin.
6. Explain the characteristics of an active site.
7. Describe the Feedback inhibition of enzyme regulation.
8. Explain competitive inhibitor.
9. Write any two enzymes and their application in medicine.

PART - C

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

10. Write an essay on nomenclature and classification of enzymes.
11. Explain the application of enzymes in food industry.
12. Give an account on allosteric enzymes and their physiological significance.
13. Explain various mechanism of catalysis.
14. Define Immobilization of enzymes and explain the different types.
15. Explain Michalis-Menten and L-B plot with a neat diagram.
16. Explain the source and strategy of purification of enzymes?

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13

G 511.3

(2014-2020 batch)

Reg. No. : | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

B.Sc. Semester III - Degree Examination

February - 2022

BIOTECHNOLOGY

MICROBIOLOGY AND IMMUNOLOGY

Time: 3 Hours **Max. Marks: 100**

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

PART – A

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

a) Differentiate between ionizing and non-ionizing radiations
b) What is spontaneous generation? Which scientist supported it?
c) Differentiate between dry heat and moist heat sterilization
d) What are interferons?
e) Differentiate between autotrophs and heterotrophs
f) Mention any two features of archaebacteria.
g) DNA vaccines
h) What are epitopes.
i) What is autoimmunity. Give one example.
j) Write any two applications of immune precipitation reactions
k) Write the five cardinal signs of inflammation
l) What is Candidiasis?

PART – B

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

2. Elaborate on various selective media employed for growing microbes
3. Describe the techniques employed for isolating and culturing microbes
4. Explain the bacterial growth curve. Add a note on various factors affecting it.
5. Describe the asexual methods of bacterial reproduction.
6. Write a short note on western blotting technique.
7. Describe the hemolytic disease of newborn.
8. Elaborate on role of oncogenes in cancer induction.
9. Explain about Immune response towards *Mycobacterium tuberculosis* infection.

PART – C

Answer any FIVE of the following: **(5x10=50)**

10. Explain the contributions of Louis Pasteur in the field of Microbiology
11. Give a detailed account on chemical methods of sterilization
12. Explain the ultrastructure of bacteria
13. Describe the mode of action of various antibiotics
14. Give an account of immune response in HIV infection.
15. Explain the various cells of the immune system
16. Describe about the types and functions of antibodies.
17. Give an account on various types of vaccines.

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14

(2019 Batch Onwards)

~~G110.3~~/G 512.3

Reg. No. | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

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

February - 2022

COMPUTER ANIMATION

Multimedia Techniques

Time: 3 hrs. **Max Marks: 100**

SECTION - A

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

1. a) Name four types of lights in after effects.
   b) Define Null object layer?
   c) What are captions in Premiere?
   d) Describe the use of Bars and Tones?
   e) Name the types of cameras in After Effects.
   f) How different is Program monitor from source monitor?
   g) What is the use ripple delete in editing? Explain
   h) How exponential fade important in an audio Transition?
   i) What is the shortcut to duplicate layers in After Effects?
   j) What is H.264 video codec?
   k) What is a B Roll?
   l) Describe L cut and J Cut.

SECTION – B

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

2. Which are the different types of visual effects techniques? Explain.
3. Write a note on transitions and explain any five of them.
4. What are the advantages of video editing?
5. How to create a double acting video? Explain
6. Write the steps to make a rotoscope video.

SECTION – C

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

7. "Overview of video editing Process". Describe the topic.
8. Describe linear and nonlinear editing methods.
9. Explain the growth and challenges of the VFX industry in India.

SECTION – D

Answer any TWO of the following: **(20×2=40)**

10. Name and explain the visual effects and compositing softwares.
11. What are the principles of editing? Explain.
12. Explain about the film editing and the Digital Intermediate process.

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15

G 513.3

(2019 Batch Onwards)

Reg. No. :

St Aloysius College (Autonomous)
Mangaluru
B.Sc. - Semester III – Degree Examination
February - 2022
ECONOMICS
MONETARY ECONOMICS

Time: 3 hrs. **Max Marks: 100**

PART - A

Answer any FOUR of the following questions in about 10 sentences each. **(4×5=20)**

1. Write a note on M1, M2, M3, M4.
2. Write a note on Tobin's theory of money.
3. Write a note on Inflationary Gap.
4. Write a note on balance sheet of a Commercial Bank.
5. Briefly explain the functions of SEBI.
6. Write a note on BRICS Bank.

PART – B

Answer any FOUR of the following questions in about 20 sentences each. **(4×10=40)**

7. What are the principles and methods of note issue?
8. Explain Fisher's equation of exchange.
9. Explain the effects of deflation.
10. Explain the functions of Central Bank.
11. Explain the instruments traded in money market.
12. Explain the objectives and functions of IMF.

PART – C

Answer any TWO of the following questions in about 50 to 60 sentences each. **(2×20=40)**

13. Define money. Explain the functions of money.
14. What are index numbers? Explain the steps in the construction of index numbers.
15. Define inflation. Explain the causes and effects of inflation.
16. Explain the functions of Commercial Banks.

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(2019 Batch onwards)

G 135.3/335.3/435.3/535.3/635.3 Reg. No: | | | | | | |

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Com./B.B.A./B.Sc./B.C.A. Semester III - Degree Examination
February – 2022

ENGLISH

Time: 3 Hours **Max. Marks: 100**

UNIT - I (PROSE)

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

1. Mention one of the traits that held Bruce Lee in good stead.
2. Name one of the art forms inherited from the Tawaifs.
3. What was the common maritime activity for the British?
4. The pervasive bureaucracy emphasized capital goods vis-à-vis consumer goods. TRUE/FALSE
5. The roots of Democracy are to be searched in the _____.

B) Answer any <u>FIVE</u> of the following in about 150 words each. **(5x5=25)**

1. Write a short note on the history of Indian indentured labour?
2. How did Bruce Lee match his passion for gung fu with his interest in philosophy? Explain.
3. Trace the change in the social position of tawaifs from "respectable courtesans" to "item girls."
4. What are the obstacles that prevent the end of caste system in India? Explain.
5. Explain Dr Ambedkar's views on "graded inequality."
6. How according to Murthy, has information Technology helped in designing customer-friendly goods?
7. Write a short note on historian Veena Oldenburg's account of tawaifs.

UNIT - II (POETRY)

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

1. 'O God! Can I not grasp them with a tighter clasp'? What is the speaker unable to clasp in the poem, "A dream within a dream?"
2. What are Elengi, payanni, Vatta and thanni?
3. What has happened to the finest flower in the poem, 'The Unquiet Grave?'
4. Who is the foeman according to the poem, "Time to die?"
5. We sing, but the _____ is vile. (complete the poetry line of the poem, 'We Wear the Mask.')

Contd...2

B. Answer any FOUR of the following in about 120 words each: (4x5=20)

1. The poem, "We Wear the Mask", is a commentary on the silence of the suffering. How would you respond to the tone of the poem?
2. How does the poet create the atmosphere of gloom to talk about his lost love? Explain with reference to the poem, 'The Unquiet Grave.'
3. The mask becomes a symbol of both hiding and revealing. How does the poet justify wearing the mask? Explain with reference to the poem, 'We Wear the Mask.'
4. Write the relation drawn by the poet between existence, sacrifice and death with reference to the life of the slave in the poem, "Time to Die."
5. What makes the speaker in the poem state that 'All that we see or seem, is but a dream within a dream?'
6. Write a short note on the ordinary jobs done by the rural folk and the threat for these jobs with reference to the poem, 'For the Dispossessed'

UNIT - III (SHORT – STORY)

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

(3x5=15)

1. What changes did those fifteen years bring to the life and thoughts of the old banker? Explain with reference to the story, "The Bet."
2. How did the renunciation note of the prisoner affect the banker? Explain.
3. The chance element of the trial created excitement in the people who attended these events. Comment on the medieval mind set of the people.
4. Write a short note on the strange nature of the king.
5. Write a note on the experience of the prisoner in the first two years of confinement. Why did the music stop in the second year?

UNIT – IV (Grammar and Writing Skills)

IV. A. Read the following passage carefully and write a precis of the same.

5 Marks

Books are a delightful society. If you go into a room filled with books even without taking them down from the shelves, they seem to speak to you, seem to welcome you, seem to tell you that they have something inside their covers that will be good for you and that they are willing to impart it to you. Value them and endeavour to turn them to good account. As to the books which you should read there is hardly anything definite that can be said. Any good book, that is wiser than yourself, will teach you something a great many things directly or indirectly. If you mind be open to lazar, the very wish and curiosity, you have to read it, indicate that you are a person who likes to get good out of it.

Contd...3

17

B. Choose appropriate words from the given list and fill in the blanks. **5marks**

When I worked in New York City, I took the _____ train from New Jersey to work early in the morning. Thankfully, I was an _____riser and heard my alarm go off since I was a _____sleeper. Before heading out for a busy workday, I always _____the effort to make my bed. I liked to make the time to do so before starting my day, so when I got home my bed was not a mess. _____the time to be organized in the morning allowed me to relax when I arrived home after a long day at work.

(early / fast / spending /light /made)

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

1. The publishers are planning to _____ a cheap edition of their new dictionary.
2. Could you _____ the volume a bit? It's really loud.
3. Children may _____ in class in an effort to get attention.
4. Fighting ____ among a group of forty men.
5. The report _____ the need for more staff.

(act up, break out, turn down, bring out, turn off, spell out, come up, set off)

D. Fill in the blanks with simple present/ Present continuous forms of verbs given in parenthesis. **5 marks**

I am currently travelling with Liam, a student from Leeds University in England. He (be)_____ a nice guy, but impatient. He (walk, always) _____ahead of me and (complain)_____ that I am too slow. I (do)_____ my best to keep up with him, but he is younger and stronger than I am. Right now, Liam (sit)_____ with the owner of the inn. They are discussing the differences between life in England and life in Nepal.

E. Read the following context carefully and write a report in about 200 words. **5 marks**

The PR Executive, Ms Neena Gomes of Elite Matrimony Pvt Ltd, an online matrimonial company based of Bangalore, has requested you to make a study of the changing market demands of youngsters looking for a suitable life partner. In particular, the organization is interested in how changing salary packages, perceptions of society like caste, language, and religion, and educational qualifications have altered the demands of youngsters. There is a perception that today's youngsters want to prioritize career over marriage.

F. Read the following context carefully and write minutes of the meeting in about 200 words. **5 marks**

The union members of the local rickshaw drivers' association consisting of the President and union representatives have a meeting to discuss the possible implications of another lockdown. The meeting lasts for two hours with inputs being taken on possible moves and actions going forward.

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(2019 batch onwards)

G 136.3 /336.3/436.3/536.3/636.3 Reg. No.

St Aloysius College (Autonomous)
Mangaluru
B.A/B.Com/BBA/B.Sc./BCA. - Semester III –Degree Examination
February/March - 2022
HINDI

Time: 3 hrs. **Max Marks: 100**

I अ) किसी एक प्रश्न का उत्तर लिखिए : (1X6=06)

१. आलेखन की परिभाषा लिखकर उसके भेदों को सोदाहरण समझाइए।

२. एक अच्छे आलेखन के गुण कौन-कौन से हैं ? उन्हें विस्तार से समझाइए।

आ) किन्हीं दो प्रश्नों के उत्तर लिखिए : (2X7=14)

१. कमलाबाई महाविद्यालय में रिक्त हिंदी सहायक प्राध्यापक पद के लिए प्राचार्य के नाम एक आवेदन पत्र लिखिए।

२. सरकारी कार्यालयों में हिंदी अनुष्ठान के उद्देश्य से भारत सरकार, गृह मंत्रालय द्वारा एक परिपत्र तैयार कीजिए।

३. स्कूल बुक कंपनी, कार स्ट्रीट, मंगळूरु ने अशोक प्रकाशन, नेताजी सुभाष मार्ग, दिल्ली से जो किताबें मंगवाईं हैं वे आदेशानुसार नहीं हैं। इसकी शिकायत करते हुए एक शिकायती पत्र लिखिए।

II अ) निम्न लिखित अवतरण को पढकर दिये गये प्रश्नो के उत्तर लिखिए : (5X2=10)

हमेशा बढ़ते चलो। मरते दम तक ग़रीबों और पददलितों के लिए सहानुभूति – यही हमारा आदर्श वाक्य है। वीर युवकों ! बढे चलो। ईश्वर के प्रति आस्था रखो। किसी चालबाजी की आवश्यकता नहीं है उससे कुछ नहीं होता। दुखियों का दर्द समझो और ईश्वर से सहायता की प्रार्थना करो- वह अवश्य मिलेगी। युवकों ! मैं गरीबों, मूर्खों और उत्पिडितों के लिए इस सहानुभूति और प्राणपण प्रयत्न को तुम्हें अर्पण करता हूँ। प्रतिज्ञा करो कि अपना सारा जीवन इन तीस करोड लोगों के लिए उद्धार-कार्य में लगा दोगे, जो दिनोंदिन अवनति के गर्त में गिरते जा रहे हैं। यदि तुम सचमुच मेरी संतान हो, तो तुम किसी वस्तु से न डरोगे, न किसी बात पर रुकोगे। तुम सिंहतुल्य होगे। हमें भरत को और पूरे संसार को जगाना है।

१. हमारा आदर्श वाक्य क्या है ?

२. किसके प्रति आस्था रखनी चाहिए ?

३. किसकी आवश्यकता नहीं है ?

४. तुम किसके समान होगे ?

५. हमें किसे जगाना है ?

आ) निम्नलिखित शब्दों का हिंदी में अनुवाद कीजिए : (5X1=05)

१. Designation २. Faculty ३. Grant

४. Notification ५. Vacancy

इ) निम्नलिखित अवतरण का पल्लवन कीजिए : (1X5=05)

'सोने से अंग भरता है मन नहीं भरता।'

III अ) एक वाक्य में उत्तर लिखिए : (8X1=08)

१. मौत से अधिक क्या क्रूर है ?

२. चिर सत्य क्या है ?

३. लक्ष्मीचंद्र की पत्नी का नाम क्या है ?

४. किसने घर पर चाय पार्टी रखी थी ?

Contd...2

५. पांडेय साहब को किसने फोन किया ?

६. दत्त साहब के सेक्रेटरी ने किसे रोक लिया ?

७. 'सीमा-रेखा' एकांकी के एकांकीकार कौन हैं ?

८. सुभाषचंद्र की पत्नी का नाम क्या है ?

आ) **किसी <u>एक</u> पात्र का परिचय दीजिए :** (1X6=06)

१. जान से प्यारे एकांकी का 'कौशिक' ।

२. साहब को जुकाम है एकांकी का 'शीतल' ।

इ) **किसी <u>एक</u> का संदर्भ सहित व्याख्या कीजिए :** (1X6=06)

१. "शहर में रंगमंच के उत्थान के बारे में मेरे अपने विचार हैं और मैंने एक योजना बनाई है ।"

२. "नहीं, नहीं, यह बहुत बुरा हुआ । जानते नहीं अब जनता का राज है और जनता के राज में, जनतंत्र को प्रतिष्ठा होती है ।"

ई) **किसी <u>एक</u> प्रश्न का उत्तर लिखिए :** (1X10=10)

१. 'जान से प्यारे' एकांकी का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए ।

२. पठित एकांकी 'साहब को जुकाम है' एकांकी के आधार पर नाटक मंडली के आंतरिक संघर्ष पर प्रकाश डालिए ।

IV अ) **एक वाक्य में उत्तर लिखिए :** (8X1=08)

१. जमूरा लाला से क्या छिन लाता है ?

२. 'समरथ को नहिं दोष गुसाईं' एकांकी के एकांकीकार कौन है ?

३. गोपाल की भाभी का नाम क्या है ?

४. वीना श्याम को किसका हलुआ बना देती है ?

५. कृपानाथ कौन है ?

६. राय साहब को रिटायर होने के बाद कहाँ जाने की इच्छा हुई ?

७. कर्ण के जन्म का संबंध किससे है ?

८. कर्ण के शरीर में कवच-कुंडल कब से हैं ?

आ) **किसी <u>एक</u> पात्र का परिचय लिखिए :** (1X6=06)

१. आखेट एकांकी का 'कर्ण' ।

२. अंडे के छिलके एकांकी की 'वीना' ।

इ) **किसी <u>एक</u> का संदर्भ सहित व्याख्या कीजिए :** (1X6=06)

१. "अच्छी बात है ना, तुम्हारा दूध का गिलास अलग रखवा देना और हम वह फ्राइंग पेन यहाँ से उठवा देंगे ।"

२. "तो फिर मैंने उनसे इतना ही कहा कि मैं, क्षत्रिय नहीं हूँ । उन्होंने प्रसन्न हो कर मुझे अस्त्र विद्या सिखाया ।"

ई) **किसी <u>एक</u> प्रश्न का उत्तर लिखिए :** (1X10=10)

१. 'समरथ को नहिं दोष गुसाईं' एकांकी का सारांश अपने शब्दों में लिखिए ।

२. 'वापसी' एकांकी का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए ।

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(2020 batch)

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19

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮಂಗಳೂರು
ಬಿ.ಎಸ್ಸಿ / ಬಿ.ಸಿ.ಎ – ಮೂರನೆಯ ಚತುರ್ಮಾಸ ಅಂತಿಮ ಪರೀಕ್ಷೆ
ಫೆಬ್ರವರಿ– 2022
ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ – 3

ಅಂಕಗಳು : 100 **ಸಮಯ : 3.00 ಗಂಟೆ**

I **ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ** **10 X 3= 30**

1) ಕರ್ಣಾರ್ಜುನರ ಯುದ್ಧದ ಸಂದರ್ಭದಲ್ಲಿ ಸಾರಥಿಯಾದ ಶಲ್ಯನು ಕರ್ಣನಿಗೆ ನೀಡಿದ ಸಲಹೆಗಳೇನು? ಅದರ ಪರಿಣಾಮವೇನಾಯಿತು?

ಅಥವಾ

ಮಲೆನಾಡಿನ ಗೋಪೂಜೆ ಮತ್ತು ಬಲೀಂದ್ರ ಪೂಜೆಯನ್ನು ಜನಪದ ಹಾಡಿನ ಹಿನ್ನಲೆಯೊಂದಿಗೆ ವಿವರಿಸಿ

2) ಲೇಖಕರು ಅನುಭವಿಸಿದ ಪಜೀತಿಯನ್ನು ದೆವ್ವದ ಮನೆ ಪ್ರಬಂಧದ ಹಿನ್ನಲೆಯೊಂದಿಗೆ ವಿವರಿಸಿ

ಅಥವಾ

ಆಕಾಶಕಾಯಗಳಲ್ಲಿ ಚಂದ್ರನ ಮಹತ್ವವನ್ನು ವಿವರಿಸಿ

3) ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯಲ್ಲಿ ಸೂಕ್ಮ ಸಂವೇದನೆಗಳು ಅನಾವರಣಗೊಂಡ ಬಗೆಯನ್ನು ವಿಶದಪಡಿಸಿ

ಅಥವಾ

ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯಲ್ಲಿ ಬರುವ ಲೇಖಕಿ ಪ್ರಜ್ಞಾ ಅವರ ಪಾತ್ರವನ್ನು ವಿಶದಪಡಿಸಿ.

II **ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ** **6 X 3= 18**

4) ಆಧುನಿಕ ಜಗತ್ತಿನಲ್ಲಿ ಕ್ರಿಯಾಶೀಲ ಬದುಕಿನ ಅನಿವಾರ್ಯತೆಯನ್ನು 'ಮೊಬೈಲ್ ಹಾಡು' ಧ್ವನಿಸುವ ಬಗೆಯನ್ನು ವಿವರಿಸಿ

ಅಥವಾ

ಕೊಂಕಣಿಭಾಷೆ ಹಾಗೂ ಸಂಸ್ಕೃತಿ ಮಹತ್ವವನ್ನು ವಿವರಿಸಿ

5) ನಾಯಿಮಲ್ಲಿಗೆ ಪ್ರಬಂಧದಲ್ಲಿ ಪ್ರಕಟವಾದ ಲೇಖಕರ ಶ್ವಾನಪ್ರೀತಿಯನ್ನು ವಿವರಿಸಿ

ಅಥವಾ

ಮುದಿತನವನ್ನು ಮುದಗೊಳಿಸಲು ಕಕ್ಕಿಲಾಯರು ನೀಡುವ ಸಲಹೆಗಳೇನು? ವಿವರಿಸಿ

6) ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯ 'ಯಾರವ್ವ ಇವ ಚೆಲುವ' ಭಾಗದಲ್ಲಿ ಬರುವ ಸ್ವಾರಸ್ಯಕರ ಸಂಗತಿಗಳನ್ನು ವರ್ಣಿಸಿ

ಅಥವಾ

ಕನ್ನಡ ಶಾಲೆಯ ಕುರಿತಾದ ನಿರೂಪಕಿಯ ಅಭಿಪ್ರಾಯವನ್ನು ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯ ಹಿನ್ನಲೆಯಲ್ಲಿ ವಿವರಿಸಿ

III **ಒಂದು ಪದ್ಯಭಾಗದ ಸಂದರ್ಭ ತಿಳಿಸಿ ಸ್ವಾರಸ್ಯ ಬರೆಯಿರಿ** **6 X1= 06**

7) ನೆನೆಯದಿರಣ್ಣ ಭಾರತದೊಳಿಂ ಪೆರರಾರುಮನೊಂದೆ ಚಿತ್ತದಿಂ
ನೆನೆವೊಡೆ ಕರ್ಣನಂ ನೆನೆಯ ಕರ್ಣನೊಳಾರ್ ದೊರೆ ಕರ್ಣನೇರು ಕ
ರ್ಣನ ಕಡು ನನ್ನಿ ಕರ್ಣನಳವಂಕದ ಕರ್ಣನ ಚಾಗಮೆಂದು ಕ
ರ್ಣನ ಪಡೆಮಾತಿನೊಳ್ ಪುದಿದು ಕರ್ಣ ರಸಾಯನಮಲ್ತೆ ಭಾರತಂ

8) ಹುಡುಕುತ್ತಾ ಹುಡುಕುತ್ತಾ
ಮೊಬೈಲ್ ಕರೆನ್ಸಿ ಕರಗುತ್ತಿದೆ
ರೀಚಾರ್ಜ್ ಮಾಡಲು ಕೈ ಬರಿದಾಗಿದೆ
ಕರೆನ್ಸಿ ಮುಗಿಯುವ ಮುನ್ನ
ನನ್ನ ಹುಡುಕಾಟ ಮುಗಿಯಬೇಕಿದೆ
ಭಯವಾಗುತ್ತಿದೆ

Contd...2

G 537.2/G 637.2

IV ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಸಂದರ್ಭ, ಅರ್ಥ ವಿಶೇಷತೆಗಳನ್ನು ವಿವರಿಸಿ 5X2= 10

9) ಗರ್ಭಗುಡಿ ಹಣತೆಯನು ಹಚ್ಚಿರುವಳು

10) ಸೂರ್ಯ ಮುಳುಗಿದರೂ ಬೆಳಕು ಮುಳುಗದು

11) ಮಾನಿಸರೇನಿನ್ನೂರು ವರ್ಷಮಂ ಬಾಳ್ದಪರೇ

12) ಬೆಲ್ಲುತಿದೆ ಕಣ್ಣು, ಅಲುಗಿದೆ ಹೊಟ್ಟೆಯೊಳಗಿರುವ ಪುಟ್ಟ ಜೀವ

V ಅ) ಎರಡನ್ನು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ 6X2= 12

13) ಪಂಪ

14) ಜನಪದ ಸಾಹಿತ್ಯ

15) ಎನ್.ಎಸ್. ಲಕ್ಷ್ಮೀನಾರಾಯಣ ಭಟ್ಟ

16) ಬಿ.ಎಂ.ಬಶೀರ್

ಆ) ಎರಡನ್ನು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ 6X2= 12

17) ಕೆ.ಎಸ್.ನರಸಿಂಹ ಸ್ವಾಮಿ

18) ಚದುರಂಗ

19) ಡಾ.ಶ್ರೀನಿವಾಸ ಕಕ್ಕಿಲಾಯ

20) ಮುತ್ತೈದೆ ಪದದ ವ್ಯುತ್ಪತ್ತಿ

VI ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ 1X12= 12

21) ದೀಪ ನೀಡುವ ತಂಡವನ್ನು ಏನೆಂದು ಕರೆಯುತ್ತಾರೆ?

22) ಕೊಂಕಣಿ ಭಾಷೆಯು ಯಾವ ಭಾಷೆಯಿಂದ ಉದಿಸಿದ್ದು?

23) 'ಹೀಂಗೊಂದುಟ್ಟು ಸತ್ಯ' ಕವನವನ್ನು ಬರೆದ ಕವಿ ಯಾರು?

24) ಆದಿಕವಿ ಎಂದು ಪ್ರಸಿದ್ಧನಾದ ಕವಿ ಯಾರು?

25) ಚದುರಂಗ ಎಂಬ ಕಾವ್ಯನಾಮದಿಂದ ಪ್ರಸಿದ್ಧರಾದ ಕಾದಂಬರಿಕಾರ ಯಾರು?

26) ಕನ್ನಡದ ಪ್ರೇಮಕವಿ ಎಂದು ಪ್ರಸಿದ್ಧರಾದ ಕವಿ ಯಾರು?

27) ರಾವ್ ಬಹದ್ದೂರ್ ಅವರ ಪೂರ್ಣಹೆಸರೇನು?

28) ಬಾಹ್ಯಾಕಾಶದ ಮೊದಲ ಮೆಟ್ಟಿಲು ಯಾವುದು?

29) ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯನ್ನು ಬರೆದವರು ಯಾರು?

30) ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯಲ್ಲಿ ನಿರೂಪಕಿಗೆ ಕಾದಂಬರಿ ಬರೆಯಲು ಪ್ರೇರಣೆ ಯಾರು?

31) ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯ ನಿರೂಪಕಿಯ ಹೆಸರೇನು?

32) 'ಕಾದಂಬರಿ ಆಧುನಿಕ ಮಧ್ಯಮ ವರ್ಗದ ಮಹಾಕಾವ್ಯ' ಎಂದು ಹೇಳಿದ ವಿದ್ವಾಂಸ ಯಾರು?

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G 538.3

(2016 batch onwards)

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester III – Degree Examination
February - 2022
SANSKRIT

Time: 3 hrs. Max Marks: 100

1 श्लोकत्रयं कर्णाटकभाषया आङ्ग्लभाषया वा अनुवादं कृत्वा विवृणुत । **3 X 8 = 24**

1.1 भुक्तानि यौवनसुखानि यशोऽवकीर्णं
राज्ये स्थितं स्थिरधिया चरितं तपोऽपि ।
श्लाघ्यः सुतः सुसदृशान्वयजा स्नुषेयं
चिन्त्यो मया ननु कृतार्थतयाऽद्य मृत्युः ॥

1.2 युद्धप्रियाश्च शरणागतवत्सलाश्च दीनेषु पक्षपतिताः कृतसाहसाश्च ।
एवंविधप्रतिभयाकृतिकुचेष्टितानां दण्डं यथार्थमिह धारयितुं समर्थाः ॥

1.3 शपामि सत्येन भयं न जाने ज्ञातुं तदिच्छामि भवत्समीपे ।
किंरूपमेतद् वद भद्र तस्य गुणागुणज्ञः सदृशं प्रपत्स्ये ॥

1.4 भ्रातृणां मम सर्वेषां कोऽयं भो गुणतस्करः ।
दृष्ट्वैतद् बालशौण्डीर्यं सौभद्रस्य स्मराम्यहम् ॥

1.5 शिरामुखैः स्यन्दत एव रक्तम् अद्यापि देहे मम मांसमस्ति ।
तृप्तिं न पश्यामि तवापि तावत् किं भक्षणात् त्वं विरतो गरुत्मन्?॥

2 द्वयोः संस्कृतभाषया टिप्पणीं लिखत । **2 X 6 = 12**

2.1 महाभारतम् ।

2.2 जीमूतकेतुः ।

2.3 श्रीहर्षदेवः ।

3 द्वयोः कर्णाटकभाषया आङ्लभाषया वा टिप्पणीं लिखत । **2 X 6 = 12**

3.1 सूत्रदारः ।

3.2 मध्यमव्यायोगस्य नामौचित्यम् ।

3.3 घटोत्कचः ।

4 पञ्चानां सन्दर्भसहितविवरणं कर्णाटकभाषया आङ्लभाषया वा लिखत । **5 X 4 = 20**

4.1 नायं नागः, परित्यज एनम्, माम् भक्षय ।

4.2 मर्षयतु भवान् मर्षयतु । अयं मे प्रकृतिदोषः ।

4.3 मम संरक्षिताः प्राणाः दत्त्वात्मानं गरुत्मते ।

4.4 बलाबलं परिज्ञाय पुत्रमेकं विसर्जय ।

4.5 शरीरनाम्नि काशोभासदा बीभत्सदर्शने ?

4.6 प्रजासु वीतकारुण्यं मनश्चैवास्य कीदृशम् ?

4.7 मृत्युः पुरुषविग्रहः ।

Contd...2

5	**द्वयोः** कर्णाटकभाषया आङ्लभाषया **वा** प्रबन्धात्मकमुत्तरं **लिखत** ।	**2 X 10 = 20**
5.1	संस्कृतनाटकानाम् उगम – विकास विचारे प्रबन्धं लिखत ।	
5.2	मध्यमव्यायोगः रूपके वृद्धब्राह्मणकुटुम्बस्य सदस्यानां पात्रचित्रणं कुरुत ।	
5.3	नागानुकम्पा–रूपकभागं सविमर्शं निरूपयत ।	
5.4	गरुडस्य मनः परिवर्तनं व्याख्यात ।	
6	अलङ्कारमेकं **सलक्षणं सोदाहरणं संस्कृतेन विवृणुत** ।	**1 X 6 = 6**
6.1	रूपकः ।	
6.2	उपमा ।	
6.3	अनुप्रासः ।	
7	**एकं छन्दः सलक्षणं सोदाहरणं विवृणुत** ।	**1 X 6 = 6**
7.1	अनुष्टुप् ।	
7.2	इन्द्रवज्रा ।	
7.3	मन्दाक्रान्ता ।	

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(2018 Batch onwards)

G 139.3

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St Aloysius College (Autonomous)
Mangaluru
B.A. /B.Sc./B.Com Semester III - Degree Examination
February -2022
KONKANI

Time: 3 Hours Max. Marks: 100

1 ದೊನಾಂಚೊ ಸಂದರ್ಭ್ ಆನಿ ಗದ್ಯಾನುವಾದ್ ದೀವ್ನ್ ಸ್ವಾರಸ್ಯ್ ಬರಯಾ. (5×2=10)

ಅ) ರಂಗ್ ಮ್ಹಜೊ ಅಸಲೊ
ಜಾಕಾ ಜಾಯ್ ತಸಲೊ
ಜಾಂತುಂತ್ ಹಾಂವ್ ಭರ್ಸಾಲೊ
ತಾಚೊಚ್ ರಂಗ್ ಮ್ಹಜೊ ಜಾಲೊ ।

ಆ) ಝಾಡಾಂ – ಪೆಡಾಂ ಹುಮ್ಟುನ್ ಪಡ್ಟ್ಯಾತ್
ಕುಸುನ್ ತಾಂಚೆಂ ಸಾರೆಂ ಜಾತಾ
ತಾಂತುಂತ್ಲ್ಯಾನ್ ಕೋಂಬ್ ಘುಟ್ತಾತ್
ನವೆಂ ರೂಪ್ ಝುಲಯ್ತ್ ಆಂಗಾರ್
ಪರ್ವತ್ ಮಾತ್ರ್ ಥಿರ್ ಆಸ್ತಾ
ಪರ್ವತ್ ಮ್ಹಾಕಾ ಜಾಂವ್ಟೆಂ ಆಸಾ.

ಇ) ಜೆದ್ನಾಂ ಸಂಧ್ಯಾಮಾರುತ್ ಹಳೂ ವಾಳ್ಳೊ
ಕೊನ್ಯಾಕ್ ಸುಕೊ ಚಿವೊ ಧಲ್ಲೊ
ಥಂಯ್ ಕಾವ್ಯ ಚೋಶ್ ಮಾತ್ಯೆಕ್ ಭುಲ್ಲೊ
ಹಾಂ! ಹಾಂಗಾ ಘುರ್ಲಾ ಕವಿಕ್ !

2) ಸವಾಲಾಂಕ್ ಜಾಪಿ ಬರಯಾ. (5×2=10)

ಅ) ಮಾತಿಯೆಚ್ಯಾ ಕೃತಿಯಾಂಕ್ ಅನಿ ಮನ್ಯಾಸಂಬಂಧಾಕ್ ಆಸ್ಟೊ ತಾಳ್ ವಿವರ್ಸಿಯಾ.

ಆ) 'ಭಾಟಾ ಮಧ್ಲ್ಯಾ ಸಾದ್ಯಾ ಘರಿ' ಕವಿ ಕಶೆಂ ಜಿಯೆಂವ್ಕ ಅತ್ರೆಗ್ತಾ ?

3) ಖಿಂಚಾಯ್ ಎಕಾ ಕವಿಚಿ ಪರಿಚಯ್ ದಿಯಾ. (5×1=5)

ಅ) ಒಲಿವಿನೊ ಗೊಮಿಶ್

ಆ) ವಲ್ಲಿ ವಗ್ಗ

4) ಸವಾಲಾಂಕ್ ಜಾಪಿಂ ಬರಯಾ. (1×5=5)

1) ಪಾವ್ಸಾಚೊ ರಂಗ್ ಕಸಲೊ?
2) 'ಭಾಗ್ಯವಾನ್ ರಾಯ್' ಲಿಖ್ಣೆ ನಾಂವಾನ್ ಬರಂವ್ಟೆ ಕವಿ ಕೋಣ್?
3) 'ಮ್ಹೊಂವ್–ಮಿರಿಂ' ಕವಿತಾ ಪುಸ್ತಕಾಚೊ ಪರ್ಗಟ್ನಾರ್ ಕೋಣ್?
4) ಭೊಂವ್ತಿ ಆಮಿ ಕಿತೆಂ ವೊಪುಂಕ್ ಜಾಯ್?
5) ಕಷ್ಟಾಂಚೊ ಫಳ್ ಕಿತೆಂ ಜಾವ್ನಾಸಾ?

UNIT - II

1 ಸವಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ: (1×6=6)

ಅ) ಅಮಾಸ್ ಕೋಣ್?

ಆ) ಬಾಬುಲೊ ಅಬ್ರೇಕ್ ಖಿಂಯ್ ವೆತಾ?

ಇ) ಹಿಪ್ಪಿ ಚಲಿಯೆಚೆಂ ನಾಂವ್ ಕಿತೆಂ?

ಈ) 'ಮ್ಹಜಿ ಬಾ ಖಿಂಯ್ ಗೆಲಿ' ಕಾಣಿಯೆಚೊ ಬರಯ್ನಾರ್ ಕೋಣ್?

ಉ) ಕುರಿಯಯ್ಯಾ ಆನಿ ಅಮಾಸಚೊ ಸಂಬಂಧ್ ಕಿತೆಂ?

ಊ) ಪಾಟಿ ಘರಾ ಕೋಣ್ ಕೊಣಾಕ್ ಪಾಯ್ತಾ?

Contd...2

G 139.3 (5×2=10)

2) ಖಂಚಾಯ್ ದೋನ್ ವಾಕ್ಯಾಚೆ ಸಂದರ್ಭ್ ಕಳವ್ನ್ ಸ್ವಾರಸ್ಯ್ ಕಳಯಾ.

ಅ) "ಮನ್ಯಾಂ ಕಡೆನ್ ದೇವ್ ಉಲಯ್ನಾ ರೇ ಮ್ಹಜ್ಯಾ ರಾಯಾ"

ಆ) "ಅರ್ಧ್ಯಾ ಘಂಟ್ಯಾನ್ ತುಂ ಅಶೋಕ್‌ಪುರಾಂತ್ ತುಜ್ಯಾ ಘರಾ ಅಸ್ತೆಲೆಂಯ್."

ಇ) "ಚಿಯರ್ಸ್ ಟು ಸಿಂಡ್ರೆಲಾ ಅಂಡ್ ಹರ್ ಬೇಬಿ ಇನ್ ದ ಊಂಬ್"

(5×2=10)

3) ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ:

ಅ) ಹಿಪ್ಪಿ ಚಲಿ, ಸಿಂಡ್ರೆಲಾ ಆನಿ ಲೇಖಿಕಾಂ ಮಧ್ಲೊ ಸಂಬಂಧ್ ವಿವರ್ಸಿಯಾ.

ಆ) 'ಪಾಟಿಂ ಘರಾ ಕಾಣಿಯೆಂತ್ ಬಾಬಚೆಂ ವ್ಯಕ್ತಿತ್ವ್ ಅನಾವರಣ್ ಕರಾ.

(4×1=4)

4) ಖಂಚಾಯ್ ಎಕಾಚೆ ಪಾತ್ರ್ ಚಿತ್ರಣ್ ಕರಾ.

ಅ) ದೇವನೂರ ಮಹಾದೇವ

ಆ) ಬಾಬುಲ್ಯಾಚಿ ಆಜಿ

UNIT - III

(5×2=10)

1 ಅ) ಎಕಾ ವಾಕ್ಯಾನ್ ಜಾಪ್ ಬರಯಾ.

ಅ) "ತುಮಿ ಶಹರಾಂತ್ ನ್ಹಂಯ್ ಲುಸಿಫೆರಾಚಾ ಘರಾಂತ್ ಆಸಾತ್".

ಆ) "ತುಮಿ ತೆಗಾಂ ತ್ರಿರಂಗಾ ಲಡಾಯ್ ಕರ್ತಾತ್".

ಇ) "ಬರಿ ಖಬಾರ್ ಸಾಂಗೊಂಕ್ ಆಯಿಲ್ಲೊ"

(1×5=5)

2. ಆ) ಎಕಾ ವಾಕ್ಯನ್ ಜಾಪ್ ಬರಯಾ:

ಅ) ದೊನ್ಪರಾಂಚೊ ಸಯ್ರೊ ನಾಟಕಾಚೊ ಬರಯ್ನಾರ್ ಕೋಣ್?

ಆ) ಲ್ಯಾನ್ಸಿ ಪಿಂಟೊ ನಾಯಕಾಚೊ ಖಂಚೊಯ್ ಏಕ್ ನಾಟಕ್ ಉಲ್ಲೇಖ್ ಕರಾ.

ಇ) ದೊನ್ಪಾರಾಚೊ ಸಯ್ರೊ ಕೋಣ್?

ಈ) ಶಹರಾಂತ್ ದೊನ್ಪರಾಚ್ಯಾ ಸೈರ್ಯಾಂಕ್ ಮೆಳ್ಟೊ ಸ್ವಾಗತ್ ಕಸಲೊ?

ಉ) ಸ್ಟೆಲ್ಲಾಚೊ ಬೆಕಾರಿ ಭಾವ್ ಕೋಣ್?

ಇ) ಖಂಚಾಯ್ ಎಕಾ ಸವಲಾಕ್ ಜಾಪ್ ಬರಯಾ. (5×1=5)

ಅ) ದೊನ್ಪಾರಾಚ್ಯಾ ಸಯ್ತ್ರಾಕ್ ಧಾಂವ್ಡಾಂವ್ಕ ಕೆಲ್ಲೆಂ ಸಾಧನ್ ವಿವರ್ಸಿಯಾ.

ಆ) ಆಧುನಿಕತೆಚ್ಯಾ ಪರಿಸರಾಂತ್ 'ದೊನ್ಪರಾಚೊ ಸೈರೊ' ನಾಟಕ್ ಸಮಕಾಲೀನ್ ಮ್ಹಣ್ ಭಗ್ತಾಗೀ? ವಿವರ್ಸಿಯಾ.

UNIT - IV

I. ಅ) ಎಕಾ ವಾಕ್ಯನ್ ಜಾಪ್ ಬರಯಾ. (5×1=5)

ಅ) ಸಂಪಾದಕಾಂಕ್ ಪತ್ರ್ ಬರೈತಾನಾ ಹಸ್ತಾಕ್ಷರ್ ಗರ್ಜೆಚೆಂಗಿ?

ಆ) ಪರಿಪತ್ರ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

ಇ) ವೈವಟಾಚೆಂ ಪತ್ರ್ ಮ್ಹಳ್ಯಾರ್ ಕಿತೆಂ?

ಈ) ಖಂಚಾಯ್ ಎಕಾ ಖಾಸ್ಗಿ ಪತ್ರಾಚೊ ಉಲ್ಲೇಖ್ ಕರಾ.

ಅ) ಪತ್ರಾಚೆಂ ಮುಖ್ಯ ಲಕ್ಷಣ್ ಕಿತೆಂ?

2) ಖಂಚಾಯ್ ತೀನ್ ಸವಾಲಾಂಕ್ ಜಾಪ್ ಬರಯಾ. (5×3=15)

ಅ) ಕೊಂಕ್ಣಿ ಸಂಘಾಚ್ಯಾ ಉಗ್ತಾವಣಾಚೆ ವರ್ದಿ ಖಂಚಾಯ್ ಎಕಾ ಪತ್ರಾಕ್ ಧಾಡ್ನ್ ದಿಯಾ.

ಆ) ಸಾಂ ಲುವಿಸ್ ಸಂಸ್ಥ್ಯಾಂತ್ ಕೊಂಕ್ಣಿ ಉಪನ್ಯಾಸಕಾಚೆ ಗರ್ಜ್ ಮ್ಹಳ್ಯಾ ಶಿರೋನಾಮಾಖಾಲ್ ಜಾಹೀರಾತ್ ತಯಾರ್ ಕರಾ.

ಇ) 'ದುಜೆ ಕಲಾಸ್' ನಾಟಕಾಚ್ಯೊ ಪ್ರತಿಯೊಂ ಹಾಡೊಂವ್ಕ ಅನಿ ತಾಚೆ ಮೋಲ್ ವಿಚಾರ್ನ್, ಉಮೇದ್ ಪ್ರಕಾಶನಚ್ಯಾ ಪ್ರಕಾಶಕಾಕ್ ಪತ್ರ್ ಬರಯಾ.

ಈ) 'ಆಂಜೆಲ್' ಕಾದಂಬರಿಚ್ಯೊ ಪ್ರತಿಯೊ ಜಾಯ್ ಮ್ಹಣ್ ವಿಚಾರ್ನ್ ಕೊಂಕಣಿ ಸಂಸ್ಥ್ಯಾಚ್ಯಾ ನಿರ್ದೇಶಕಾಕ್ ಪತ್ರ್ ಬರಯಾ.

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(2019 & 2020 batch)

G 140.3

Reg. No. | | | | | | |

St Aloysius College (Autonomous)

Mangaluru

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

February - 2022

ADDITIONAL ENGLISH

Time: 3 hrs. **Max Marks: 100**

UNIT – I

(Prose)

I. Answer any ONE of the following in about 150 words: (5x01=05)

1. What was the conflict between his personal and professional life that Kalam is talking about in the excerpt taken from his autobiography? How did he solve it?
2. What is garbling? How does Sayers illustrate this form of distortion?

II. Answer any <u>TWO</u> of the following questions in 250 words each: (2x10=20)

1. What were the hurdles that were faced by Kalam during his SLV-3 journey?
2. What are the various ways by which both fact and opinion can be distorted?
3. Describe Tagore's idea of Freedom?

UNIT – II
(Poetry)

I. Answer the following in about 150 words each: (4x5=20)

1. In the poem 'If', what are the qualities one should possess to become a perfect man?
2. "Success is counted sweetest by those who ne'er succeed" Elaborate.
3. According to the poet, when should we keep calm?
4. In the poem 'If', how should a person develop humility in life?

UNIT – III
(Novel)

I. Answer the following question in a sentence or two each: (1x5=05)

1. Who is Hukum Chand in "Train to Pakistan"?
2. Who was Lala Ram Lal? How did he die?
3. Who is Iqbal in "Train to Pakistan"?
4. Who is given in-charge of the Muslim properties?
5. Why does the village decide to stand by their Muslim neighbours?

II. Answer any TWO of the following in about 300 words each: (2 X 10=20)

1. Analyse the role of women in the novel "Train to Pakistan"?
2. In particular, comment on the very differing characterizations of the men whose lives in the novel become intertwined: Iqbal and Jugga. How does the ending of the novel change, if at all, our view of each?
3. How relevant is the title "Train to Pakistan"?

Contd...2

UNIT – IV
(GRAMMAR AND VOCABULARY)

I.) Read the passage given below. **(10)**

Cardamom, the queen of all spices, has a history as old as the human race. It is the dried fruit of a herbaceous perennial plant. Warm humid climate, loamy soil rich in organic matter, distributed rainful and special cultivation and processing methods all combine to make Indian cardamom truly unique in aroma, flavour, size and it has a parrot green colour. Two types of cardamom are produced in India. The first type is the large one, which has not much significance as it is not traded in the future market. It is cultivated in north-eastern area of the country. The second type is produced in the southern states and these are traded in the future market. These are mainly cultivated in Kerala, Tamilnadu and Karnataka. As per the future market rules, only 7 mm quality was previously traded in exchanges. But later, it relaxed its norms and now 6 mm quality is also traded in the exchanges. Cardamom is an expensive spice, secondly to safforn. Indian cardamom is known in two main varieties : Malabar cardamon and Mysore cardamom. The Mysore variety contains leaves of cineol, limonene and hence is more aromatic. India is the world's largest producer and exporter emerged as the leading producer and exporter of cardamom.The main harvest season of cardamom in India is between August-February. Cardamom reaches at yielding stage two years after the plantation. The primary physical markets of cardamom are Kumily Vandenmodu, Jhekkady, Puliyarmala in Kerala and Bodynaikkaur and Cumbum in Tamilnadu. Kerala is the main producer of cardamom and contributes upto 60% in total production. Karnataka produces around 25% of the total productioncardamom. Ooty is the main producer of cardamom in Tamilnadu and contributes around 10-15% of the total production. Besides India, Guatemala also produces around 1,000-2,000 ton cardamom per year. Due to low quality of cardamom from Guatemala, it remains available at cheaper rates.

1. **Mysore variety contains leaves of :**
   (a) Limonene
   (b) Cineol
   (c) Both (a) and (b)
   (d) None of these
2. **Indian Cardamom is:**
   (a) Poor in quality
   (b) Average in quality
   (c) Better in quality
   (d) None of these
3. **Guatemala produces cardamom :**
   (a) More but poor in quality
   (b) Less but good in quality
   (c) More and good in quality
   (d) Less and poor in quality
4. **Main harvest season of cardamom in India is :**
   (a) August-February
   (b) August-March
   (c) November
   (d) February-April
5. **Cardamom reaches at its yielding stage in :**
   (a) Immediately after plantation
   (b) Depends upon the plantation
   (c) One year after plantation
   (d) Two years after plantation

Contd...2

6. **India produces cardamom of :**
   (a) One type
   (b) Two types
   (c) Three types
   (d) None of the above
7. **Which of the following is the variety of Indian cardamom?**
   (a) Malabar cardamom
   (b) Mysore cardamom
   (c) Both (a) and (b)
   (d) None of the above
8. **Which of the following production of cardamom produces by Karnataka?**
   (a) 25%
   (b) 10%
   (c) 15%
   (d) 60%
9. **Find the synonym of the word 'distributor' given in the passage 3.**
   (a) Expensive
   (b) Known
   (c) Producer
   (d) Exporter
10. **The synonym of the word 'fragrance' given in the passage 3.**
   (a) Aroma
   (b) Variety
   (c) Contain
   (d) Hence

II. Write a dialogue where you are being interviewed for the post of a lecturer. **(1x5=05)**

III. You have to speak in the morning assembly and tell the students about the benefits of Yoga. Write a speech in 150-200 words. **(1x5=05)**

IV. Give one word substitution for the following **(1x5=05)**

(patricide, glutton, bonfire, posthumous, gourmet, bonsai, regicide, cartographer)

1. The one who loves good food and knows a lot about it
2. A person who draws maps
3. Published after someone's death
4. A person who eats too much
5. The act of killing a king

V.) Fill in the blanks with appropriate CLICHES given in the brackets:

(1x5=05)

(the beginning of the end, a bed of roses, as easy as ABC, in the same boat, as a matter of fact, at death's door, the alpha and the omega)

1.) _____, I was talking to him this afternoon.
2.) Jane was so ill that she was _____ for three days.
3.) She's always complaining that she doesn't have enough money, but we're all _____.
4.) Who said life would be _____?
5.) Joe's failing two of his courses was _____ ; he dropped out soon afterward.

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(2019 Batch Onwards)

G 150.3 Reg. No. : | | | | | | |

St. Aloysius College (Autonomous)
Mangaluru

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

February - 2022

FRENCH

Time: 3 hrs. **Max Marks: 100**

I. Répondez aux 10 Question **(10×2= 20)**

1. Que signifie la phrase ' Il voit la vie en rose.'
2. Que signifie la phrase ' Il a donné son feu vert.'
3. Donnez deux qualité qu'on doit avoir si on est avocat.
4. Donnez deux qualité qu'on doit avoir si on est le chef d'entreprise.
5. Nomez les sports plus pratiquez en France.
6. Si vous aimez le couleur vert donnez de caractére.
7. Si vous detester le couleur noir donnez de caractére.
8. Quelle sont les sujets de conversation qu'on peut avoir avec un francais si on s'entend bien.
9. Quels sont les sujets de conversation qu'on peut faire si on s'entend bien en France ?
10. Quel repas des Français peut durer pour au moins 3 heures ?
11. Dans les restaurants, qu'est-ce qu'on vous apporte gratuitement ?

II. Remplissez avec le bon verbe **(5×1= 5)**

(avancer – reculer - partir - arriver - revenir - reprtir– redescendre - monter - traverser – accompagner)

1. Elle ____ a la montagne. Elle _____ à pied.
2. Il ____ le pont.
3. Les courageux ___ et les peureux _____
4. Je vais au médecin, si tu peux, tu peux m'_____
5. Le 8 mai, à 9 heures, il ___ à Marseille de Paris. À midi, il ___ à Marseille. Le 10 mai, il ___ à Marseille. Le soir, il ___ chez lui, à Paris.

III. Transformez les phrases en passive. **(5×1= 5)**

1. 20 septembre, vote de la loi des finances.
2. 2004, inauguration du pont de Millau.
3. 3 juillet, vol de quatre tableaux au musuée.
4. Construction d'un nouveau stade l'année prochaine.
5. Les enfants ramassent les fruits.

IV. Transformez les phrases en passive. **(5×1= 5)**

1. Un homme est renversé pas la voiture.
2. L'ambulance a été applelée par les passants.
3. Les témoignages seront ontorrogés par la police.
4. Les éléves font les exercise.
5. La petition a été signee par nos amies.

Contd...2

V. Conjugez les verb au Subjectif (5×1= 5)

1. Il faut que tu (faire)…….. des efforts.
2. Il ne faut pas que vous (parler)…… pendant le cours.
3. Il est important qu'il (aller)……. ā son rendez-vous.
4. Il faut que tu (étre) …….. ā l'heure chez le médicin.
5. Je serrai ravi qu'il (réussir) …..son concours.

VI. Rapporter des paroles en direct (5×1= 5)

1. Le prof a dit qu'il pleuvait. Le prof dit "……"
2. Jean dit qu'il a mangé de fruit. Jean dit "……"
3. Il dit qu'il ne sortira pas. Marie dit "……"
4. Il dit q'il va rester chez lui. Mac dit "……"
5. Alexandre dit qu'il va faire le tour du monde. Il dit qu'il "……"

VII. Rapporter des paroles en indirect (5×1= 5)

1. « Je l'attendrai demain. » Il a dit qu'il ……..
2. « Elle est venue ici hier. Il a dit qu'elle ……..
3. « Je pense à elle depuis hier. »Il raconte qu'il……
4. « Un jour, je serai animateur de télé. »Il a affirmé qu'un……
5. J'ai vu une animatrice de télé. Il a dit…….

VIII. Mettez au temps convenable (10×1= 10)

1. S'il pense à vous, il vous …….. (écrire)
2. Si le train ne ne marchait pas, il …..(prendre) l'avion pour New York.
3. Si tu as soif, …… (boire) de l'eau.
4. Si nous…… (avoir) le temps, nous nous promènerions dans le bois.
5. Si je vais à Touba, je ……. (voir) la 2osque à Touba.
6. Si j'étais à ta place, je …….(changer)tous.
7. Si vous étiez parfait, vous ……. (faire) du ski de fond.
8. S'il …….(finir) le travail ils préféraient partir plus tôt.
9. Si tu pratiquais, tu ……. (réussir) ton examen.
10. Si tu as l'appareil photo, ……. (prendre)une photo.

IX. a. Complétez avec le conditionnel (5×1= 5)

1. J'…….rencontrer l'actice francais. (aimer)
2. Il…….. à l'école demain. (arrive)
3. Ils …….. nous voir. (venir)
4. Nous …….plus de dix milles. (vendre)
5. Les enfants …….des excursions à l'étranger. (faire)

b. Utilisez le présent conditionnel et écrivez un texte Si vous gagniez une lotto de 10,000 euros, Qu'est-ce que vous feriez? (5×1= 5)

X. DIALOGUE (10×1= 10)

1. Vous devez faire une activité originale(prominade à cheval,tour sur les montagnes russes d'une foire etc) Mais deux d'entre vous ne sont pas d'accord.

ou

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

Contd…3

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XI. Écrivez une Lettre **(10×1= 10)**

Si vous avez visité des pays étrangers ou à un ami (e) parlez des habitudes qui vous ont frappé(e)

XII. Comprehension **10**

Le français est la deuxième langue étrangère en Inde, après l'anglais. Parce que c'est une langue facile à apprendre et une culture intéressante à connaître, le français est très populaire parmi les autres langues étrangères comme le russe et l'allemand. Dans le milieu international, le français est une des langues officielles des Nations Unies (l'ONU).

L'Inde a une population non négligeable de francophones. Dans les régions comme Pondichéry, Yanam, Karaikal, Chandannagore et Mahé, le français était toujours la première langue. Ces régions sont des anciens territoires français en Inde. Dans leurs territoires, les Français ont encouragé le français comme langue de travail. Même aujourd'hui, à l'école d'Auroville à Pondichéry, le français est la langue d'instruction.

La propagation et l'enseignement du français en Inde sont la responsabilité de l'Alliance française et du Centre Culturel de l'Ambassade de France. Il y a aussi plusieurs instituts et universités, où le français est sujet principal. Ils offrent des cours à temps partiel et à plein temps.

L'Université de Delhi à Delhi, l'Université Jawarharlal Nehru, situé à Delhi,l'Université de Poona à Poona et Central Institute of English and Foreign Languages (CIEFL) à Hyderabad sont quelques instituts qui offrent des programmes de licence (BA) en français en plein temps. Pour obtenir une admission à ces instituts, il faut terminer les 12 ans d'études à l'école (10+2). Ces programmes donnent à un étudiant la possibilité de suivre une carrière de "professionnel de langue ". Pour des étudiants moins sérieux, ils ont l'option d'un cours à l'Alliance française.

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En Inde, il y a toutes sortes de personnes qui apprennent le français—les étudiants, les cadres, les officiers du gouvernement, les couturiers, etc. Enfin, le français, c'est « à la mode ! »

Q.1 Répondez : **(1x2=2)**

(i) Pourquoi le français, est-il très populaire ?

(ii) Qui la responsabilité pour la propagation du français en Inde ?

Q.2 Cochez la bonne réponse : **(1x2=2)**

I. Ce texte :

(i) raconte la vie des Français en Inde.

(ii) parle d'une soirée à l'ambassade de France en Inde.

(iii) donne des conseils aux étudiants qui veulent apprendre le français en Inde.

II. Un institut qui enseigne le français en Inde est :

(i) Max Mueller Bhavan.

(ii) Kamani Auditorium.

(iii) Alliance Française.

Contd...4

Q.3 **Complétez avec les phrases du texte:** **(1X4 = 4)**

(i) Le français est populaire parmi les langues comme la russe et l'Allemand. (officielles / étrangères /anciens)

(ii) Le français est une des de l'ONU. (francophones / langues officelles / territoires)

(iii) L'Alliance Française a la ..... pour la propagation du français en Inde. (population / résponsibilité / école)

(iv) Pour obtenir une admission à instituts..... terminer les 12 ans, d'études.
(il faut / ils offrent | apprendre)

Q.4 **Dites vrai ou faux :** **(1x2=2)**

(i) L'Inde a une population non négligable de francophones.....
(ii) Pondichéry et Yanam n'ont pas le français comme langue.....

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(2019 Batch onwards)

G 151.3

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Reg. No:

St Aloysius College (Autonomous)
Mangaluru
B.A./B.Sc./B.Com./B.B.A/B.C.A Semester III – Degree Examination
February - 2022
MALAYALAM

Time: 3 Hours **Max. Marks: 100**

I. **മൂന്നെണ്ണം വ്യാഖ്യാനിക്കുക** **(3x5 =15)**

1. ഗാനം പോൾ ഗുണകാവ്യം പോൽ, മമ
മാനസമോർത്തു, സഖീ നിന്നെ..
2. കാത്ത കല്പന വന്നു "പിടിയാനയെക്കൊണ്ടു
കാട്ടിൽ വിട്ടേക്കൂ,ജീവിച്ചീടുകിൽ ജീവിക്കട്ടെ"..
3. "ആരു നീയനുജത്തി? നിർന്നിമേഷമായെന്തെൻ
തേരുപോകവേ നേരെനോക്കി നിൽക്കുന്നു ദൂരെ?
4. ഭാഗ്യ, മപ്പണിപറ്റീ,യുണങ്ങീ, വ്രണ,മഞ്ചു
നാൾക്കകം മുന്നേപ്പോൾ നീ കുസൃതിക്കൂടായ് മാറി.

II. **മൂന്നെന്നണ്ണത്തിനു കുറിപ്പു തയ്യാറാക്കുക** **(3x5=15)**

5. ഫിൻലൻഡിന്റെ ഗ്രാമീണഭംഗി എസ്.കെ വർണ്ണിക്കുന്നതെങ്ങിനെ?
6. ഫിൻലൻഡിന്റെ പുതിയ ചരിത്രം വിവരിക്കുക
7. പുതിയ രൂപത്തിലും ഭാവത്തിലും ഹെൽസിങ്കി നഗരം രൂപംകൊണ്ടതെങ്ങിനെ?
8. ഹെൽസിങ്കിയിലെ സെനറ്റ്അങ്കണത്തെക്കുറിച്ച് വർണ്ണിക്കുക

III. **ഒരെണ്ണത്തിന് രണ്ടു പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക** **(1x10=10)**

9. സൂര്യനെ കണ്ടപ്പോൾ സൂര്യകാന്തിപ്പൂവിന്റെ മനസ്സിലൂടെ കടന്നുപോയ ചിന്തകൾ എന്തൊക്കെ?
10. അപകടത്തിൽ പെട്ട പിടിയാനയെ വനപാലകൻ രക്ഷപ്പെടുത്തിയതെങ്ങിനെ?

IV. **ഒരെണ്ണത്തിന് രണ്ടുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക** **(1x10=10)**

11. ഫിൻലൻഡിന്റെ പാർല്യമെൻറ് മന്ദിരത്തെക്കുറിച്ച് വിവരിക്കുക
12. ഹെൽസിങ്കിയിലെ പ്രധാന തെരുവുകളെക്കുറിച്ച് വിവരിക്കുക

V. **ഒരെണ്ണത്തിന് മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക** **(1x15=15)**

13. തിരുക്കുകളൂടെ നിഷ്കളങ്കമായ സ്നേഹം വ്യക്തമാക്കുന്ന ഒരു കവിതയാണ് വളർത്തുമകൾ–സമർഥിക്കുക
14. സൂര്യനും സൂര്യകാന്തിപ്പൂവും തമ്മിലുള്ള ആത്മബന്ധം കവിതയിൽ കവി അവതരിപ്പിച്ചിരിക്കുന്നതെങ്ങിനെ ?

VI. **ഒരെണ്ണത്തിന് മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക** **(1x15=15)**

15. ഫിൻലൻഡിലെ ജനങ്ങളെക്കുറിച്ചും അവരുടെ ഭാഷയെക്കുറിച്ചും ചുരുക്കി വിവരിക്കുക
16. ഫിൻലൻഡിന്റെ മുഖ്യ സബത്ത് വനങ്ങളാണെന്ന് പറയുന്നതെന്തുകൊണ്ട്?

VII. **ഒരെണ്ണത്തിന് മൂന്നുപുറത്തിൽ കുറയാതെ ഉത്തരമെഴുതുക** **(1x15=15)**

17. ഉത്തരം കിട്ടാത്ത ഒരു പ്രഹേളികയാണ് മനുഷ്യമനസ്സ്–വാനപ്രസ്ഥത്തിലെ മാസ്റ്റർ ,വിനോദിനി ഇവരുടെ മാനസികാവസ്ഥയെ വിലയിരുത്തിക്കൊണ്ട് സമർഥിക്കുക
18. വാനപ്രസ്ഥം –ഒരാസ്വാദനം തയ്യാറാക്കുക

VIII. **നിവേദനം തയ്യാറാക്കുക** **(1x5=5)**

19. നാട്ടിലെ ജനങ്ങളുടെ പ്രധാന കുടിവെള്ളസ്രോതസ്സായ കുളം സംരക്ഷിക്കണമെന്ന് ആവിശ്യപ്പെട്ടുകൊണ്ട് ബന്ധപ്പെട്ട അധികാരികൾക്ക് ഒരു നിവേദനം തയ്യാറാക്കുക

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(2019 Batch onwards)

G 702.3

Reg. No.

St Aloysius College (Autonomous)

Mangaluru

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

February - 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)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳನ್ನು ಉತ್ತರಿಸಿ.

1. What is Patriarchy?
   ಪಿತೃ ಪ್ರಧಾನತೆ ಎಂದರೇನು?
2. What is gender bias?
   ಸಾಮಾಜಿಕ ಲಿಂಗ ಪೂರ್ವಾಗ್ರಹ ಎಂದರೇನು?
3. Expand UNICEF
   UNICEF ನ್ನು ವಿಸ್ತರಿಸಿ.
4. What is reproductive health?
   ಪ್ರಜನನ ಆರೋಗ್ಯ ಎಂದರೇನು?
5. Give the meaning of female foeticide
   ಹೆಣ್ಣು ಶಿಶು ಹತ್ಯೆ ಎಂದರೇನು?
6. What is immoral trafficking?
   ಅನೈತಿಕ ಕಳ್ಳಸಾಗಣೆ ಎಂದರೇನು?
7. What is Bigamy?
   ದ್ವಿ ಪತ್ನಿತ್ವ ಎಂದರೇನು?

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

8. Differentiate between sex and gender.
   ಜೈವಿಕ ಲಿಂಗ ಮತ್ತು ಸಾಮಾಜಿಕ ಲಿಂಗದ ನಡುವಿನ ವ್ಯತ್ಯಾಸವನ್ನು ತಿಳಿಸಿ.
9. What is 'Sarve Santu Niramayah'?
   'ಸರ್ವೆ ಸಂತು ನಿರಾಮಯ' ಎಂದರೇನು?
10. What is Child sexual abuse?
    ಮಕ್ಕಳ ಲೈಂಗಿಕ ದುರ್ಬಳಕೆ ಎಂದರೇನು?
11. What is wife battering?
    ಪತ್ನಿ ಪೀಡನೆ ಎಂದರೇನು?

Contd...2

12. What is PNDT act?
ಪಿ.ಎನ್.ಡಿ.ಟಿ. ಕಾಯ್ದೆ ಎಂದರೇನು?

13. Define Divorce.
ವಿವಾಹ ವಿಚ್ಛೇದನವನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.

14. What is gender division of labour?
ಲಿಂಗಾಧಾರಿತ ಶ್ರಮ ವಿಭಜನೆ ಎಂದರೇನು?

III. Answer any <u>TWO</u> of the following questions in 20 lines each. (2x10=20)
ಕೆಳಗಿನ ಯಾವುದಾದರೂ <u>ಎರಡು</u> ಪ್ರಶ್ನೆಗಳನ್ನು ಉತ್ತರಿಸಿ.

15. Explain the characteristics of matriarchal system.
ಮಾತೃ ಪ್ರಧಾನ ವ್ಯವಸ್ಥೆಯ ಲಕ್ಷಣಗಳನ್ನು ತಿಳಿಸಿರಿ.

16. Discuss the status of women in India.
ಭಾರತದಲ್ಲಿ ಮಹಿಳೆಯರ ಸ್ಥಾನಮಾನವನ್ನು ಚರ್ಚಿಸಿ.

17. What are the factors affecting maternal mortality?
ಮಾತೃ ಮೃತ್ಯುದರವುವಿಕೆಗೆ ಕಾರಣವಾಗುವ ಅಂಶಗಳು ಯಾವುವು?

18. Describe the initiatives taken by the government to promote the rights of girl child.
ಹೆಣ್ಣು ಮಕ್ಕಳ ಹಕ್ಕುಗಳನ್ನು ಪ್ರೋತ್ಸಾಹಿಸಲು ಸರಕಾರ ತೆಗೆದುಕೊಂಡ ಉಪಕ್ರಮಗಳನ್ನು ವಿವರಿಸಿ.

PART – B
VALUE EDUCATION

IV. Answer any <u>ONE</u> of the following in not less than a page. (5x1=5)

19. Define Marriage. Explain the significance of marriage.
ವಿವಾಹವನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿರಿ. ವಿವಾಹದ ಮಹತ್ವವನ್ನು ವಿವರಿಸಿರಿ.

20. Define family. Explain the characteristics of dysfunctional families.
ಕುಟುಂಬವನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿರಿ. ನಿಷ್ಕ್ರೀಯ ಕುಟುಂಬದ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿರಿ.

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

21. Discuss the methods of family planning.
ಕುಟುಂಬ ಯೋಜನೆಯ ವಿಧಾನಗಳನ್ನು ಚರ್ಚಿಸಿ ಬರೆಯಿರಿ.

22. What are the signs and symptoms of miscarriage? Explain the risk factor that lead to miscarriage.
ಗರ್ಭಪಾತದ ಚಿಹ್ನೆಗಳು ಮತ್ತು ಲಕ್ಷಣಗಳೇನು? ಗರ್ಭಪಾತಕ್ಕೆ ಕಾರಣವಾಗುವ ಅಪಾಯಕಾರಿ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿರಿ.

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