

No of Printed Pages : 2

21BSC5C5CHL



Sl. No. 236354

B.Sc. V Semester Degree Examination, January/February - 2025

CHEMISTRY

Inorganic Chemistry and Spectroscopy

Paper : DSC-5

(NEP)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates: Answer all Sections.

SECTION - A

Answer the following sub-questions. Each Sub question carries One mark .
(10×1=10)

1. a) What are molecular sieves?
- b) Define Vitreous silicates.
- c) What is binding energy?
- d) Mention elementary particles of atomic nucleus.
- e) Define Bathochromic shift.
- f) What is the significance of finger print region?
- g) State Born-oppenheimer approximation.
- h) What are stokes and anti stokes lines in Raman spectroscopy?
- i) Define Chemical Shift.
- j) Give one application of Mass spectroscopy.

SECTION - B

Answer any FOUR of the following questions. Each question carries Five marks.
(4×5=20)

2. Explain structure and bonding in Carboranes.
3. Describe HSAB concept with examples.
4. Elaborate classification of nuclides based on Z and N Values.



[P.T.O.]

5. Explain Woodward rules for calculation of λ_{max} for conjugated dienes.
6. Describe determination of bond lengths of diatomic molecules.
7. Explain principle of NMR spectroscopy.

SECTION - C

Answer any THREE of the following questions. Each question carries Ten marks.
(3×10=30)

8. a) Describe classification and structure of silicates. (6)
b) Explain reactions in non-aqueous solvent BrF_3 . (4)
 9. a) Describe nuclear shell model. (6)
b) Write a note on secular and transient equilibria. (4)
 10. a) Explain effect of H-bonding, conjugation and resonance on IR absorptions. (6)
b) Describe types of electronic transition. (4)
 11. a) Explain effect of isotopic substitution in rotational spectroscopy. (6)
b) Describe vibrational Raman spectra. (4)
 12. a) Explain phenomenon of spin-spin coupling and high resolution spectra. (6)
b) Write a note on fragmentation process in mass spectroscopy. (4)
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No of Printed Pages : 2

21BSC5C6CHL



Sl. No. | 380675

B.Sc. V Semester (NEP) Degree Examination, January/February-2025

CHEMISTRY - VI

Organic and Physical Chemistry

Paper - (5.2) DSC-6

Time : 2 Hours

Maximum Marks : 60

Note: Answer all the sections.

SECTION - A

Answer the following sub-question. Each sub-question carries "OneMark".
(10×1=10)

1.
 - a) What are alternant hydrocarbons?
 - b) Define Tauto merism with example.
 - c) Write stable conformational structure of cyclohexane.
 - d) Write the chemical structure of aldonic acid and uronic acid.
 - e) Write the structure of Indole.
 - f) Write the structure of vitamin 'A' (Retinol).
 - g) What is Laplacian operators?
 - h) Define Eigenvalues of schrodinger wave equation.
 - i) Define first law of photochemistry.
 - j) Write Michaelis - Menton equation.

SECTION- B

Answer any Four of the following questions. Each question carries Five marks.
(4×5=20)

2. Explain the energy levels in benzyl free radicals and benzyl carbanion. (5)
3. Describe the conformational analysis of dialkyl, dihalo, diols substituted cyclohexane. (5)



[P.T.O.]

4. Explain the synthesis and electrophilic substitution reaction of isoxazole and isotiazole heterocycles. (5)
5. Describe the synthesis of vitamin B-5. (Pantothenic acid). (5)
6. Derive and solve the schrodinger wave equation for a particle moving in 3D - box. (5)
7. Explain the mechanism of thermal & photochemical reaction b/w hydrogen -bromine. (5)

SECTION - C

Answer any Three of the following questions. Each question carries "Ten" marks.
(3×10=30)

8. a) Describe the impact of resonance effect, inductive effect and steric effect on reactivity. (6)
b) Explain the methods of determining mechanism based on structure of product. (4)
 9. a) Explain the conformational analysis of Cyclobutane and Cyclopentane. (6)
b) Write the mechanism of chain shorting in aldose (Ruff degradation) (4)
 10. a) Explain the synthesis and electrophilic substitution reaction of pyrozole and imidazole hetero cycle. (6)
b) Write a short note on water soluble vitamins. (4)
 11. a) Describe the application of schrodinger equation to harmonic oscillator. (6)
b) Write a short note on operators. (4)
 12. a) Define chain reaction. Explain the pyrolysis of acetaldehyde. (6)
b) How do you treat Michalies - menton equation to get Linear weaver - Burk plot? (4)
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21BSC5C4PHL



Sl. No. 212143

B.Sc. V Semester Degree Examination, January/February - 2025

PHYSICS

Classical Mechanics and Quantum Mechanics

Paper - 5.1

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

- 1) *Answer all questions in Section I in first two pages only.*
- 2) *Non - Programmed scientific Calculators are allowed.*

SECTION - I

I. Answer All the questions.

(10×1=10)

1.
 - a) Define angular momentum.
 - b) Define non Inertial frame of reference.
 - c) State D - Alemberts principle.
 - d) Define photoelectric effect.
 - e) State Heisenberg uncertainty principle.
 - f) Define Coriolis force.
 - g) What is the mathematical expression for the Lagrangian 'L' in classical mechanics.
 - h) Define super position principle.
 - i) Define wave function.
 - j) What is Zero- point energy.

SECTION- II

II. Answer any Four of the following.

(4×5=20)

2. Explain constraints and its types.
3. Derive an expression for length contraction.
4. Write a note on normalisation and orthogonality of wave function.



P.T.O.

5. With neat diagram explain G.P Thomson's experiment'.
6. Derive an expression for apparent frequency in case of Longitudinal Doppler Effect.
7. State and explain law of conservation of energy.

SECTION - III

Answer any Three of the following. Each question carry Ten marks. (3×10=30)

8. a) With neat diagram derive an expression for displacement of At woods machine.
b) Derive an expression for time period of linear harmonic oscillator. (6+4)
 9. a) What is compton effect and derive, an expression for compton shift..
b) Find the change, in wavelength of x-Ray Scattered with an angle of 45° . (8+2)
 10. With neat diagram explain Michelsons - Morley experiment and write its negative results. (10)
 11. a) Explain scanning tunneling microscope.
b) Derive an expression for time dependent schrodinger wave equation. (5+5)
 12. Derive an expression for energy eigen value of a particle in a one - dimensional infinite potential well. (10)
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No of Printed Pages : 2

21BSC5C6PHL



Sl. No. 336284

B.Sc. V Semester Degree Examination, January/February - 2025

PHYSICS

Elements of Atomic, Molecular and Laser Physics

Paper : 5.2 (DSC-6)

(NEP)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

1. *Attempt All questions.*
2. *Non-Programmed Scientific Calculators are allowed.*

I. Answer All the following questions.

(10×1=10)

1.
 - a) Define impact Parameter.
 - b) Give the expression for the closest approach.
 - c) Define rigid rotator.
 - d) What is stark effect.
 - e) Mention any one failure of Rutherford model of atom.
 - f) What is anomalous Zeeman effect.
 - g) Define fine structure of spectral lines.
 - h) What is Raman effect.
 - i) Define population inversion.
 - j) Mention are characteristic of Laser.

II. Answer any Four of the following questions.

(4×5=20)

2. Explain quantum theory of Raman effect.
3. Derive an expression for the energy of the electron in the n^{th} Bohr orbit.



[P.T.O.]

4. Describe Frank - Hertz experiment to determine the critical potential.
5. Discuss L-S coupling Schemes.
6. Briefly explain the requisites of Laser.
7. Explain in brief Spontaneous and stimulated emission with Einstein's co-efficient equations.

III. Answer any Three of the following questions.**(3×10=30)**

8. Describe alpha scattering experiment. **(10)**
9. a) Describe stern - Gerlach experiment.
b) Discuss classical theory of Zeeman effect. **(5+5)**
10. Obtain an expression for rotational energy of a diatomic molecule as a rigid rotator. **(10)**
11. Explain the construction and working of NDYAG Laser and its applications. **(10)**
12. a) State quantum numbers associated with vector atomic model.
b) Explain fluorescence and phosphorescence based on their mechanism and time scale. **(5+5)**



No of Printed Pages : 3

21BSC5C6MTL



Sl. No. 475599

B.Sc. V Semester Degree Examination, January/February - 2025

MATHEMATICS

Vector Calculus and Analytical Geometry

Paper : DSC-6

(NEP)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

Answer all Sections.

SECTION - A

Answer the following sub-questions. Each sub-question carries One mark.
(10×1=10)

1. a) Find the volume of a parallelopiped whose sides are given by $-3\hat{i} + 7\hat{j} + 5\hat{k} - 5\hat{i} + 7\hat{j} - 3\hat{k}$ and $7\hat{i} - 5\hat{j} - 3\hat{k}$.
- b) Find the volume of λ so that the following vectors are coplanar $\vec{a} = 2\hat{i} - 7\hat{j} + \lambda\hat{k}$ $\vec{b} = \hat{i} + 2\hat{j} - \hat{k}$ and $\vec{c} = 3\hat{i} - 5\hat{j} + 2\hat{k}$.
- c) If $\vec{F} = x\hat{i} + y\hat{j} + z\hat{k}$ then prove that $\text{div } \vec{F} = 3$.
- d) Prove that $\text{Curl}(\text{grad } \phi) = \vec{0}$.
- e) State Gauss Divergence theorem.
- f) Find the area of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ using Green's Theorem.
- g) If (2, 3, 4) are the direction ratio's of the straight line then find direction co sines of the straight line.
- h) Find the angle between the planes $3x - 6y + 2z - 5 = 0$ and $4x - 12y + 3z - 3 = 0$.
- i) Define a sphere and write the equation of the sphere.
- j) Define right circular cylinder.



[P.T.O.]

SECTION - B

Answer any Four of the following questions. Each question carries Five marks.
(4×5=20)

2. Find the directional derivative of the function $\phi(x, y, z) = xy^2 + yz^3$ at $(2, -1, 1)$ in the direction of $2\mathbf{i} + \mathbf{j} + 2\mathbf{k}$.
3. Show that the vector $\vec{F} = (\sin y + z)\mathbf{i} + (x \cos y - z)\mathbf{j} + (x - y)\mathbf{k}$ is irrotational.
4. Prove that $\text{curl}(\text{curl } \vec{F}) = \text{grad}(\text{div } \vec{F}) - \nabla^2 \vec{F}$.
5. Using Stokes theorem prove that $\text{div curl } \vec{F} = 0$.
6. Find the equation of the plane passing through the points $(1, 2, 3), (-1, 3, 4), (5, 4, 6)$.
7. Find the equation of the sphere which passes through the points $(1, 0, 0), (0, 1, 0), (0, 0, 1)$ and $(2, -1, 1)$ Find center and radius.

SECTION - C

Answer any Three of the following questions. Each question carries Ten mark.
(3×10=30)

8. a) Show that $\nabla r^n = n \cdot r^{n-1} \cdot \hat{r}$ where $\vec{r} = x\mathbf{i} + y\mathbf{j} + z\mathbf{k}$.
b) Find the angle between the normal to the surface $xy = z^2$ at the point $(1, 9, -3)$ and $(-2, -2, 2)$.
9. a) If $u = x + y + z, v = x^2 + y^2 + z^2, w = xy + yz + zx$, show that $[\nabla u, \nabla v, \nabla w] = 0$.
b) If the vector $\vec{F} = (ax + 3y + 4z)\mathbf{i} + (x - 2y + 3z)\mathbf{j} + (3x + 2y - z)\mathbf{k}$ is solenoidal then find the constant 'a'.
10. a) Evaluate $\iint_S \vec{F} \cdot \hat{n} ds$ when $\vec{F} = 4xzi - y^2j + yzk$ and S is the surface of the cube bounded by $x = 0, x = 1, y = 0, y = 1, z = 0, z = 1$ by divergence theorem.
b) Evaluate using Green's theorem $\oint_C (x^2y \cos x + 2xysinx - y^2e^x) dx + (x^2sinx - 2ye^x) dy$ around the hyper cycloid $x^{2/3} + y^{2/3} = a^{2/3} (a > 0)$.



11. a) Find the Equation of the planes bisecting the angle between the planes $x + 2y + 2z = 19$ and $4x - 3y + 12z + 3 = 0$.
- b) Find the equation of the line passing through the point, $(2, 5, 8)$ and $(-1, 6, 3)$.
12. a) Find the length of Perpendicular from $(-6, 2, -6)$ on the line $\frac{x-1}{2} = \frac{y}{3} = \frac{z}{5}$.
- b) Find the equation of the tangent planes to the cone $9x^2 - 4y^2 + 16z^2 = 0$ which contain the line $\frac{x}{32} = \frac{y}{72} = \frac{z}{72}$.
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21BSC5C5MTL



Sl. No. 276282

B.Sc. V Semester Degree Examination, January/February - 2025

MATHEMATICS

Real Analysis - II and Complex Analysis

Paper : DSC-5

(NEP)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

Answer All Sections.

SECTION - A

Answer the following sub-questions. Each sub-question carries One mark.

(10×1=10)

1.
 - a. Define upper and lower Riemann Sums.
 - b. Define norm of the partition 'P'.
 - c. State Second Mean Value theorem.
 - d. If $f(x) = \cos x$ find the primitive of $f(x)$.
 - e. Write complex number in Eulers form.
 - f. Write Cauchy-Riemann equations in Polar form.
 - g. Define Conformal Mappings.
 - h. Define Mobious Transformation?
 - i. Define Simple Curve.
 - j. Define Contour.



[P.T.O.]

SECTION - B

Answer any Four of the following questions. Each question carries Five marks.
(4×5=20)

2. A bounded function $f(x)$ is R-integrable defined on $[a, b]$ iff for each $\hat{1} > 0$, partition p on $[a, b]$ such that $0 < U(p, f) - l(p, f) < \hat{1}$.

3. By applying Mean Value theorem to the integral $\int_0^{\pi/4} \sec x \, dx$ show that

$$\frac{\pi}{4} \leq \int_0^{\pi/4} \sec x \, dx \leq \frac{\pi}{2\sqrt{2}}.$$

4. State and prove necessary conditions for C-R equations in Cartesian form.
5. Find the Bilinear transformation which maps $z_1 = -1, z_2 = 0, z_3 = 1$ into $w_1 = 0, w_2 = i, w_3 = 3i$.

6. Evaluate $\int_0^{3+i} z^2 \, dz$ along the line $3y = x$.

7. Find the analytic function whose real part is $\left(r + \frac{1}{r}\right) \cos \theta$.

SECTION - C

Answer any Three of the following questions. Each question carries Ten marks.
(3×10=30)

8. a) If x^2 is defined on $[0, 1]$ and $p = \{0, 1/6, 2/6, 3/6, 4/6, 5/6, 1\}$ then find $U(p, f)$ and $L(p, f)$.

- b) Show that the function $f(x) = 3x + 1$ is integrable on $[1, 2]$ and $\int_1^2 (3x + 1) \, dx = 1\frac{1}{2}$.



9. a) Show that $\int_0^{\pi/2} x \cos x \, dx = \frac{\pi}{2} - 1$ by using integration by parts.
- b) State and prove fundamental theorem of integral calculus.
10. a) Show that $f(z) = \cosh z$ is analytic and hence find $f'(z) = \sinh z$.
- b) Show that $u = x^3 - 3xy^2$ is harmonic and find its harmonic conjugate.
11. a) Prove that Bilinear transformation preserves the cross-ratio of four points.
- b) Find the image of the circle $|z|=1$ and $|z|=2$ [equivalently $x^2 + y^2 = 1$, $x^2 + y^2 = 4$] under the mappings $w = z + \left(\frac{1}{z}\right)$.
12. a) State and prove Cauchy's integral formula.
- b) Evaluate $\int_C \frac{1}{z(z-1)} dz$ where C is the circle $|z|=3$.
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No of Printed Pages : 2

21BSC5C5ZOL



Sl. No. 277086

B.Sc. V Semester Degree Examination, January/February - 2025

ZOOLOGY

Non - Chordates and Economic Zoology

Paper : Z-5.1

(NEP)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

1. Answer ALL the Sections.
2. Draw diagrams wherever necessary.

SECTION - A

Answer the following sub-questions.

(10×1=10)

1. a. Mention Locomotory Organs in the Phylum-Protozoa.
b. Name the types of Spicules in Sponges.
c. Define Cephalization.
d. Which is the first largest phylum in the Animal Kingdom?
e. What is Mantle?
f. In which phylum do you find water vascular system?
g. Define Vermiculture.
h. What is the scientific name of Indian Honey Bee?
i. What is Pseudocoelom?
j. Write Primary and Secondary host of Tape Worm.

SECTION - B

Answer any FOUR of the following questions.

(4×5=20)

2. Explain the life cycle and control measures of Gundhi Bug?
3. List out the general characteristics of Mollusca.



[P.T.O.]

4. Draw a neat labelled diagram, of water vascular system.
5. Describe the classification of Phylum Annelida upto classes with example.
6. Enumerate the General Characteristics of Phylum Protozoa.
7. With a neat labelled diagram, Explain Syconoid type of Canal System.

SECTION - C

Answer any THREE of the following questions.

(3×10=30)

8. Describe the life cycle of Obelia with labelled diagram.
 9. Explain external features of Prawn with the help of labelled diagram.
 10. Write the salient features of the Phylum - Mollusca and add a note on its classification upto classes with example.
 11. Describe the steps involved in Vermiculture and add a note on its significance.
 12. With neat labelled diagram describe the morphology of Hirudinaria. (Leech).
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No. of Printed Pages : 2

21BSC5C6ZOL



Sl. No. 479026

B.Sc. V Semester Degree Examination, January/February - 2025
ZOOLOGY
Chordates and Comparative Anatomy
Paper : Z- 5.2
(NEP)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

1. *Answer All the Sections.*
2. *Draw diagrams wherever necessary.*

SECTION - A

Answer the following Sub-questions.

(10×1=10)

1. a) What is the scientific name of Amphioxus?
- b) What do you mean by poikilotherms?
- c) Define Agnatha. Give an example.
- d) Give an example for egg laying mammal.
- e) What is pneumatic bone?
- f) Mention any two types of scales in fishes.
- g) What is Atlas?
- h) Name the series of heart chambers in fishes.
- i) What is corpus callosum?
- j) What is Bicuspid valve? Where it is found?

SECTION - B

Answer any Four of the following questions.

(4×5=20)

2. Sketch and label the V.S of mammalian heart.
3. Write the comparative account of the brain of shark and Lizard.
4. Explain the types of parental care in Amphibians with suitable examples.



[P.T.O.]

5. Enumerate the salient features of the class Mammalia.
6. Compare the differences between Invertebrates and vertebrates.
7. List out the general characters of urochordata.

SECTION - C

Answer any Three of the following questions.

(3×10=30)

8. Explain the Retrogressive metamorphosis in Ascidian Tadpole larva with labelled diagram.
 9. Write the differences between Chondrichthyes and Osteichthyes.
 10. Describe in detail about the migration in birds.
 11. Write the comparative account of the heart of Frog and Lizard.
 12. Compare the brain of Frog and pigeon in detail.
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No of Printed Pages : 2

21BSC5C6BOL



Sl. No. **338983**

B.Sc. V Semester Degree Examination, January/February - 2025

BOTANY

Genetics and Plant Breeding

(NEP)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates: Answer All Sections

Note: Draw Diagrams wherever necessary

SECTION - A

I. Answer all the Sub-questions.

(10×1=10)

1.
 - a. Define genotype.
 - b. What is penetrance?
 - c. What are allosomes?
 - d. What is monogenic inheritance?
 - e. What is Linkage?
 - f. What is Interference?
 - g. What are mutagens?
 - h. Define Genetic drift.
 - i. Define emasculation.
 - j. What is inbreeding depression ?

SECTION - B

II. Answer any Four questions.

(4×5=20)

2. What is monohybrid cross? Explain with suitable example.
3. Write the difference between monogenic and polygenic inheritance.



[P.T.O.]

4. Write a note on numerical based gene mapping.
5. What is Mutation? Write a note on types of Mutation.
6. What is hybridization? Describe the steps involved in hybridization.
7. Write a note on objectives of plant breeding.

SECTION - C

III. Answer any Three of the following questions.

(3×10=30)

8. What is incomplete dominance? Describe with suitable example.
 9. Write a note on:
 - a) Chromosome theory of inheritance
 - b) Chloroplast mutation.
 10. Write a note on:
 - a) Cytological basis of crossing over
 - b) Sex linkage
 11. Describe the detection of mutations by using CIB method.
 12. Write a note on:
 - a) Undesirable consequences of plant breeding.
 - b) Role of Biotechnology in crop improvement.
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No of Printed Pages : 2

21BSC5C5BOL



Sl. No. **212844**

B.Sc. V Semester Degree Examination, January/February - 2025

BOTANY

**Plant Morphology and Taxonomy
(NEP)**

Time : 2 Hours

Maximum Marks : 60

Note: Diagrams Wherever necessary

SECTION - A

I. Answer all the following questions.

(10×1=10)

1. a. What is fusiform root?
- b. Expand ICBN.
- c. What is phyllotaxy?
- d. What are Botanical gardens?
- e. What is E-flora?
- f. What is Taxa?
- g. Write the Botanical name of wheat.
- h. What is Spadix?
- i. Define phenograms.
- j. What are Clades?

SECTION - B

II. Answer any Four of the following questions

(4×5=20)

2. What are fleshy fruits? Explain any two types of fleshy fruits.
3. Write merits and demerits of Bentham and Hooker's classification.



[P.T.O.]

4. Write a note on Species concepts.
5. Write the salient features of Malvaceae.
6. What is placentation? Explain the different types of placentation.
7. Explain the evolution of Angiosperms.

SECTION - C

III. Answer any Three of the following questions. (3×10=30)

8. What is Aestivation? Explain the types of Aestivation with suitable diagram.
 9. Explain in detail about molecular taxonomy in respect to DNA sequence of chloroplast genes.
 10. What is Herbarium? Explain the preparation of Herbarium.
 11. Write the salient features of family Brassicaceae and mention any two plants with their Botanical name and economic importance.
 12. Explain in detail about principle and rules of ICBN.
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No of Printed Pages : 3

21S4CS



Sl. No.

B.A./B.Com./B.Sc. V Semester Degree Examination,
January/February - 2025
COMPUTER SCIENCE
Cyber Security
Paper : SEC-5
(NEP)

Time : 2 Hours

Maximum Marks : 50

SECTION-A

ವಿಭಾಗ-ಎ

Answer any Ten of the following Sub-questions. Each question carries Two marks. (10×2=20)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಹತ್ತು ಉಪ-ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ. ಪ್ರತಿ ಉಪ-ಪ್ರಶ್ನೆಗೆ ಎರಡು ಅಂಕಗಳು.

1. a) What is Cyber space?
ಸೈಬರ್ ಸ್ಪೇಸ್ ಎಂದರೇನು?
- b) Name any two input devices.
ಯಾವುದಾದರೂ ಎರಡು ಇನ್‌ಪುಟ್ ಸಾಧನಗಳನ್ನು ಹೆಸರಿಸಿ.
- c) What is Internet?
ಇಂಟರ್ನೆಟ್ ಎಂದರೇನು?
- d) What is Cyber crime?
ಸೈಬರ್ ಅಪರಾಧ ಎಂದರೇನು?
- e) What is virus?
ವೈರಸ್ ಎಂದರೇನು?
- f) What is malware?
ಮಾಲ್ವೇರ್ ಎಂದರೇನು?
- g) What is social media?
ಸಾಮಾಜಿಕ ಮಾಧ್ಯಮ ಎಂದರೇನು?



[P.T.O.]

- h) Define Hashtag.
ಹ್ಯಾಶ್‌ಟ್ಯಾಗ್‌ನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.
- i) What is E-Commerce?
ಇ-ಕಾಮರ್ಸ್ ಎಂದರೇನು?
- j) Name any two popular E-Commerce sites.
ಯಾವುದಾದರೂ ಎರಡು ಜನಪ್ರಿಯ ಇ-ಕಾಮರ್ಸ್ ಸೈಟ್‌ಗಳನ್ನು ಹೆಸರಿಸಿ.
- k) Expand UPI
UPI ಅನ್ನು ವಿಸ್ತರಿಸಿ.
- l) What is data backup?
ಡೇಟಾ ಬ್ಯಾಕಪ್ ಎಂದರೇನು?

SECTION - B

ವಿಭಾಗ - ಬಿ

Answer any Two of the following questions. Each question carries Five marks.
(2×5=10)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಐದು ಅಂಕಗಳು.

- What is cyber attack? Write types of cyber attacks.
ಸೈಬರ್ ಅಟ್ಯಾಕ್ ಎಂದರೇನು? ಸೈಬರ್‌ದಾಳಿಯ ವಿಧಗಳನ್ನು ಬರೆಯಿರಿ.
- Write a note on financial fraud.
ಹಣಕಾಸಿನ ವಂಚನೆ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
- What are various types of Social media platforms?
ವಿವಿಧ ರೀತಿಯ ಸಾಮಾಜಿಕ ಮಾಧ್ಯಮ ಪ್ಲಾಟ್‌ಫಾರ್ಮ್‌ಗಳು ಯಾವುವು?
- Write any five applications of E-commerce.
ಇ-ಕಾಮರ್ಸ್‌ನ ಯಾವುದೇ ಐದು ಬಳಕೆಗಳು/ಪ್ರಯೋಜನಗಳನ್ನು ಬರೆಯಿರಿ.
- What are the key aspects of mobile phone security?
ಮೊಬೈಲ್ ಫೋನ್ ಭದ್ರತೆಯ ಪ್ರಮುಖ ಅಂಶಗಳು ಯಾವುವು?





B.A./B.Com./B.B.A./B.C.A./B.Sc./B.S.W.
V Semester Degree Examination, January/February - 2025
MANAGEMENT
Employability Skills (SEC)
(NEP)

Time : 2 Hours

Maximum Marks : 50

Note: Answer All Questions.

ಸೂಚನೆ: ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

Instructions to the Candidates

ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಸೂಚನೆಗಳು

1. The question paper will be given in the form of a question booklet
ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯನ್ನು ಪುಸ್ತಿಕೆಯ ರೂಪದಲ್ಲಿ ಕೊಡಲಾಗುವುದು.
2. Immediately after the commencement of the examination, the candidate should check the question booklet supplied to him/her contains all the 50 questions in serial order.
ಪರೀಕ್ಷೆ ಪ್ರಾರಂಭವಾದ ನಂತರ, ಅಭ್ಯರ್ಥಿಯು ತನಗೆ ಸರಬರಾಜು ಮಾಡಿದ ಪ್ರಶ್ನೆಪುಸ್ತಕವನ್ನು ಪರಿಶೀಲಿಸಬೇಕು, ಪ್ರಶ್ನೆಪುಸ್ತಕವು 50 ಪ್ರಶ್ನೆಗಳು ಸರಣಿ ರೂಪದಲ್ಲಿರುವುದನ್ನು ಖಾತರಿಪಡಿಸಿಕೊಳ್ಳತಕ್ಕದ್ದು.
3. The question booklet doesn't have unprinted or torn or missing pages (except space for rough work pages at the end) and if so, he/she should bring it to the notice of the invigilator and get it replaced by a complete booklet. This is most important.
ಪ್ರಶ್ನೆಪುಸ್ತಿಕೆಯು ಮುದ್ರಿತ ಆಗದಿರುವ / ಹರಿದಿರುವ / ಇಲ್ಲದೇ ಇರುವ ಪುಟಗಳನ್ನು ಹೊಂದಿರುವುದಿಲ್ಲ (ಕಚ್ಚಾ ಉಪಯೋಗಕ್ಕಿರುವ ಪುಟಗಳನ್ನು ಹೊರತು) ಹಾಗಿದ್ದಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳು ಕೊಠಡಿ ಮೇಲ್ವಿಚಾರಕರ ಗಮನಕ್ಕೆ ತರುವುದು ಹಾಗೂ ಪ್ರಶ್ನೆಪುಸ್ತಿಕೆಯನ್ನು ಬದಲಿಸಿಕೊಳ್ಳುವುದು (ಹೊಸದನ್ನು ಕೇಳಿ ಪಡೆಯುವುದು), ಇದು ಅತಿ ಮುಖ್ಯ.
4. Blank pages of the booklet/question booklet may be used for rough work/space for rough work provided at the end of booklet.
ಪ್ರಶ್ನೆಪುಸ್ತಿಕೆಯ ಖಾಲಿ ಪುಟಗಳನ್ನು ಕಚ್ಚಾ ಉಪಯೋಗಕ್ಕೆ / rough work ಗೆ ಉಪಯೋಗಿಸಬಹುದು/ಕಚ್ಚಾ ಉಪಯೋಗಕ್ಕೆ ಖಾಲಿ ಪುಟಗಳನ್ನು ಈ ಪ್ರಶ್ನೆಪುಸ್ತಿಕೆಯ ಕೊನೆಯಲ್ಲಿ ನೀಡಲಾಗಿದೆ.



1. Which of the following is the appointing authority of Civil Services in India?

- A) SSC B) UPSC
C) IBPS D) RRB

ಭಾರತದಲ್ಲಿ ನಾಗರಿಕ ಸೇವೆಗಳ ನೇಮಕಾತಿಗೆ ನೇಮಕಾತಿ ಪ್ರಾಧಿಕಾರ ಯಾವುದು?

- A) SSC B) UPSC
C) IBPS D) RRB

2. What is the full form of SSC, which conducts exams for Group-B and Group-C posts.

- A) Staff Selection Commission B) State Selection Committee
C) Student Selection Commission D) Special Selection Committee

B ಮತ್ತು C ಗುಂಪಿಗೆ ಹುದ್ದೆಗಳ ಪರೀಕ್ಷೆಗಳನ್ನು ನಡೆಸುವ SSC ಯ ಪೂರ್ಣರೂಪ ಏನು?

- A) ಸಿಬ್ಬಂದಿ ಆಯ್ಕೆ ಆಯೋಗ B) ರಾಜ್ಯ ಆಯ್ಕೆ ಸಮಿತಿ
C) ವಿದ್ಯಾರ್ಥಿ ಆಯ್ಕೆ ಆಯೋಗ D) ವಿಶೇಷ ಆಯ್ಕೆ ಸಮಿತಿ

3. Which Exam is conducted by IBPS for requirement in Public Sector Banks?

- A) Civil Services Exam B) IBPS PO/Clerks
C) Banking Recruitment exam D) SSC-CGL

ಸಾರ್ವಜನಿಕ ಕ್ಷೇತ್ರದ ಬ್ಯಾಂಕುಗಳಲ್ಲಿ ನೇಮಕಾತಿಗೆ IBPS ಯಾವ ಪರೀಕ್ಷೆ ನಡೆಸುತ್ತದೆ?

- A) ನಾಗರಿಕ ಸೇವಾ ಪರೀಕ್ಷೆ B) IBPS PO/Clerks
C) ಬ್ಯಾಂಕಿಂಗ್ ನೇಮಕಾತಿ ಪರೀಕ್ಷೆ D) SSC-CGL

4. What is the eligibility criterion for appearing in the UPSC Civil Services examination.

- A) Must have completed class 10
B) Must Hold a Graduate Degree
C) Post Graduate degree is mandatory
D) Diploma in any field.

UPSC ನಾಗರಿಕ ಸೇವಾ ಪರೀಕ್ಷೆಗೆ ಹಾಜರಾಗಲು ಅರ್ಹತಾ ಮಾನದಂಡ ಯಾವುದು?

- A) 10ನೆ ತರಗತಿ ಪೂರ್ಣಗೊಳಿಸಿರಬೇಕು
B) ಪದವೀಧರರಾಗಿರಬೇಕು
C) ಸ್ನಾತಕೋತ್ತರ ಪದವಿ ಅಗತ್ಯತೆ
D) ಯಾವುದೇ ಡಿಪ್ಲೋಮಾ



5 What is the pattern of IBPS-PO examination?

- A) Prelims and Mains only B) Written exam only
C) Prelims, Mains and Interview D) Interview only

IBPS-PO ಪರೀಕ್ಷೆಯ ಮಾದರಿ ಯಾವುದು?

- A) ಪ್ರಿಲಿಮ್ಸ್ ಮತ್ತು ಮೇನ್ಸ್ ಮಾತ್ರ B) ಬರಹ ಪರೀಕ್ಷೆ ಮಾತ್ರ
C) ಪ್ರಿಲಿಮ್ಸ್ ಮೇನ್ಸ್ ಮತ್ತು ಸಂದರ್ಶನ D) ಸಂದರ್ಶನ ಮಾತ್ರ

6. Which of the following exams is conducted by UPSC for recruitment into the armed forces?

- A) CDS B) SBI-PO
C) SSC-JE D) IBPS-RRB

ಸೈನಿಕ ಸೇವೆಗಳ ನೇಮಕಾತಿಗಾಗಿ UPSC ನಡೆಸುವ ಪರೀಕ್ಷೆ ಯಾವುದು?

- A) CDS B) SBI-PO
C) SSC-JE D) IBPS-RRB

7. The IBPS-RRB exam is conducted for recruitment in which type of banks?

- A) Cooperative Banks B) Regional Rural Banks
C) Public Sector Banks D) Private Banks

IBPS-RRB ಪರೀಕ್ಷೆ ಯಾವ ರೀತಿಯ ಬ್ಯಾಂಕುಗಳಲ್ಲಿ ನೇಮಕಾತಿಗಾಗಿ ನಡೆಯುತ್ತದೆ.

- A) ಸಹಕಾರಿ ಬ್ಯಾಂಕುಗಳು B) ಪ್ರಾದೇಶಿಕ ಗ್ರಾಮೀಣ ಬ್ಯಾಂಕುಗಳು
C) ಸಾರ್ವಜನಿಕ ಕ್ಷೇತ್ರದ ಬ್ಯಾಂಕುಗಳು D) ಖಾಸಗಿ ಬ್ಯಾಂಕುಗಳು

8. Which of the following exams is NOT conducted by the Central Government?

- A) SSC-CGL B) RRB-NTPC
C) UPSC D) TET

ಕೆಳಗಿನ ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಯಾವುದು ಕೇಂದ್ರಸರ್ಕಾರದಿಂದ ನಡೆಸಲ್ಪಡುವುದಿಲ್ಲ.

- A) SSC-CGL B) RRB-NTPC
C) UPSC D) TET



9. Example for Employment is :

- A) Tehsildar B) Assistant Professor
C) SDA D) All of the above

ಈ ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಉದ್ಯೋಗದ ಉದಾಹರಣೆ ಯಾವುದು?

- A) ತಹಸೀಲ್ದಾರ್ B) ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕ
C) ಎಸ್.ಡಿ.ಎ D) ಮೇಲಿನ ಎಲ್ಲವೂ

10 Which Section is Common on almost all government exams?

- A) Professional Knowledge B) General awareness
C) Logical Reasoning D) None of the above

ಯಾವ-ವೀಭಾಗವು ಬಹುತೇಕ ಎಲ್ಲಾ ಸರ್ಕಾರದ ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಸಾಮಾನ್ಯವಾಗಿದೆ?

- A) ವೃತ್ತಿಪರ ಜ್ಞಾನ B) ಸಾಮಾನ್ಯ ಜ್ಞಾನ
C) ತಾರ್ಕಿಕ ಕಾರಣನುಸಾರ D) ಮೇಲಿನ ಯಾವುದು ಅಲ್ಲ

11. IBPS-SO exams are conducted for _____

- A) Clerical Jobs B) Specialist Roles
C) Railway Recruitment D) None of the above

IBPS-SO ಪರೀಕ್ಷೆಗಳನ್ನು ಈ ಕೆಳಗಿನ _____ ನಡೆಸಲಾಗುತ್ತದೆ.

- A) ಕ್ಲೆರಿಕಲ್ ಕೆಲಸಗಳು B) ತಜ್ಞರ ಹುದ್ದೆಗಳು
C) ರೈಲ್ವೆ ನೇಮಕಾತಿ D) ಮೇಲಿನ ಯಾವುದು ಅಲ್ಲ

12. How many stages are there in UPSC Civil Services Examination?

- A) One B) Two
C) Three D) Four

UPSC ನಾಗರಿ ಸೇವಾ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಎಷ್ಟು ಹಂತಗಳಿವೆ?

- A) ಒಂದು B) ಎರಡು
C) ಮೂರು D) ನಾಲ್ಕು



13. Which section in the IBPS exams test banking knowledge?
- A) General Awareness B) Professional knowledge
C) Quantitative aptitude D) English Language

IBPS ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಯಾವ ವಿಭಾಗ ಬ್ಯಾಂಕಿಂಗ್ ಜ್ಞಾನವನ್ನು ಪರೀಕ್ಷಿಸುತ್ತದೆ.

- A) ಸಾಮಾನ್ಯ ಜ್ಞಾನ B) ವೃತ್ತಿಪರ ಜ್ಞಾನ
C) ಅಂಕಗಣಿತ ಸಾಮರ್ಥ್ಯ D) ಇಂಗ್ಲೀಷ್ ಭಾಷೆ

Choose an appropriate word from the options to suitably fill the blanks in the sentence below so that the sentence makes sense both gramatically and contextually.

(Q. No.'s 14, 15)

14. They _____ learning a new language next semester

- A) Will B) Will have
C) Will be D) Will have been

15. We _____ read at least half of Shakespeare's Comedies by the end of this year

- A) Will be B) Will have
C) Will D) Will have been

16. Fill in the blanks with the suitable preposition

Don't depend _____ others; you must stand on your own feet.

- A) Upon B) on
C) To D) For

17. The following sentence has been divided into parts, One of them May contain an error. Select the part that has error from the given options. If you don't find any error, Mark 'No error' as your answer .

"The Child was /gazing longingly/at the toy

- A) Gazing longingly B) At the toy
C) No error D) The Child was



18. Select the most appropriate meaning of the given Idiom.

"To be above board"

- A) To have a good height B) To be honest in any business deal
C) They have no debts D) They try to be beautiful.

19. Select the option that can be used as a one word substitute for the given group of words:

"Plants of a Particular region"

- A) Flora B) Flinch
C) Fauna D) Flotsam

20. Find the Correctly spelt word:

- A) Occasion B) Occassion
C) Ocasion D) Ocassion

21. In the question below a Sentence broken into five parts, Join these parts to make a meaningful sentence. The correct order of parts is the answer.

1. Not 2. Hotel 3. Comfortable 4. Was 5. The

- A) 34521 B) 52413
C) 53412 D) 34152

22. Choose the word which best expresses the meaning of the given word -
Synonym

"ALERT"

- A) Energetic B) Observant
C) Intelligent D) Watchful

23. Choose the word which is the Antonym of the given word:

"OBEYING"

- A) Ordering B) Following
C) Refusing D) Contradicting



24. Fill in the blanks:

"The politicians speech was full of promise, lent many of them seemed_____and unlikely to be _____"

- A) Genuine, fulfilled B) Hollow, implemented
C) Convincing, ignored D) realistic, broken

25. Comprehension passage:

Passage: "The rise of artificial intelligence has raised ethical questions about its use in society. While it has improved efficiency, concerns about privacy and job displacement continus to grow.

Question: What is the Primary concern about artificial intelligence mention in the passage?

- A) It is too costly to implement B) It cannot improve efficiency
C) It raises ethical concerns D) It has no practical applications

26. Rearrange the jumbled words into a logical sentence:

'Interested/are/you/in/attending/the/Seminar/tomorrow?'

- A) You are interested in attending seminar tomorrow
B) Are you in attending the interested seminar tomorrow?
C) Are you interested in attending the seminar tomorrow
D) Tomorrow the seminar attending, are you interested?

27. Find the Odd man Out in/ಗುಂಪಿಗೆ ಸೇರದವನ್ನು ಗುರುತಿಸಿ.

10, 25, 45, 54, 60, 75, 80

- A) 10 B) 45
C) 54 D) 75

28. (?) +3699+1985-2047 = 3111

- A) 34748 B) 27474
C) 30154 D) 27574



29. $8597 - (?) = 7429 - 4358$

A) 5426

B) 5706

C) 5526

D) 5476

30. Complete the Series / ಸರಣಿಯನ್ನು ಪೂರ್ಣಗೊಳಿಸಿ.

6, 13, 25, 51, 101, ?

A) 201

B) 202

C) 203

D) 205

31. The Sum of the present ages of Vishal, Mahesh and Srinivas is 93 years. Ten years ago, the ratio of their ages was 2:3:4, What is the present age of Srinivas?

A) 31

B) 38

C) 21

D) 28

ವಿಶಾಲ್, ಮಹೇಶ್ ಮತ್ತು ಶ್ರೀನಿವಾಸ್ ಅವರ ಪ್ರಸ್ತುತ ವಯಸ್ಸಿನ ಮೊತ್ತವು 93 ವರ್ಷಗಳು ಹತ್ತು ವರ್ಷಗಳ ಹಿಂದೆ ವಂದರೆ ವಯಸ್ಸಿನ ಅನುಪಾತವು 2:3:4 ಆಗಿತ್ತು. ಶ್ರೀನಿವಾಸ್‌ನ ಪ್ರಸ್ತುತ ವಯಸ್ಸು ಎಷ್ಟು

A) 31

B) 38

C) 21

D) 28

32. A Vendor bought toffees at 6 for a rupee. How many for a rupee must be sell to gain 20%?

A) 3

B) 4

C) 5

D) 6

ಒಬ್ಬ ಮಾರಾಟಗಾರನು ಒಂದು ರೂಪಾಯಿಗೆ 6 ಮಿಠಾಯಿಗಳನ್ನು ಖರೀದಿಸಿದನು. 20% ಲಾಭ ಪಡೆಡೆಯಲು ಅವನು ಒಂದು ರೂಪಾಯಿಗೆ ಎಷ್ಟು ಮಾರಾಟ ಮಾಡಬೇಕು?

A) 3

B) 4

C) 5

D) 6



33. A Grocer has a sale of Rs.6435, Rs.6927, Rs.6855, Rs.7230 and Rs.6562 for consecutive months, How much sale must be have in the sixth month so that he gets an average sale of Rs.6500?

A) Rs. 4991 B) Rs. 5991
C) Rs. 6001 D) Rs. 6991

ಒಬ್ಬ ದಿನಸಿ ಅಂಗಡಿಯವನು ರೂ. 6435, ರೂ. 6927, ರೂ. 6855, ರೂ. 7230 ಮತ್ತು ರೂ. 6562ರ ಮಾರಾಟವನ್ನು ಸತತ 5 ತಿಂಗಳುಗಳವರೆಗೆ ಹೊಂದಿದ್ದಾನೆ. ಆತನು ಸರಾಸರಿ ರೂ. 6500 ಮಾರಾಟವನ್ನು ಪಡೆಯಲು ಆರನೇ ತಿಂಗಳಲ್ಲಿ ಎಷ್ಟು ಮಾರಾಟವನ್ನು ಹೊಂದಿರಬೇಕು?

A) Rs. 4991 B) Rs. 5991
C) Rs. 6001 D) Rs. 6991

34. A fruit seller had some apples, he sells 40% apples and still has 420 apples. Originally he had:

A) 588 Apples B) 600 Apples
C) 672 Apples D) 700 Apples

ಒಬ್ಬ ಹಣ್ಣಿನ ಮಾರಾಟಗಾರನ ಬಳಿ ಕೆಲವು ಸೇಬುಗಳಿದ್ದವು ಅವನು 40% ಸೇಬುಗಳನ್ನು ಮಾರಾಟ ಮಾಡುತ್ತಾನೆ ಮತ್ತು ಇನ್ನೂ 420 ಸೇಬುಗಳನ್ನು ಹೊಂದಿದ್ದಾನೆ. ಮೂಲತಃ ಅವನು ಹೊಂದಿದ್ದ ಸೇಬುಗಳು ಎಷ್ಟು?

A) 588 ಸೇಬುಗಳು B) 600 ಸೇಬುಗಳು
C) 672 ಸೇಬುಗಳು D) 700 ಸೇಬುಗಳು

35. 'A' can do a piece of work in 4 hours; B and C together can do it in 3 hours, While A and C together can do it in 2 hours, How long will B along take to do it?

A) 8 Hours B) 10 Hours
C) 12 Hours D) 24 Hours

'ಎ' ಒಂದು ಕೆಲಸವನ್ನು 4 ಗಂಟೆಗಳಲ್ಲಿ ಮಾಡಬಲ್ಲನು; ಬಿ ಮತ್ತು ಸಿ ಒಟ್ಟಾಗಿ ಇದನ್ನು 3 ಗಂಟೆಗಳಲ್ಲಿ ಮಾಡಬಲ್ಲರು, ಆದರೆ ಎ ಮತ್ತು ಸಿ ಒಟ್ಟಾಗಿ ಇದನ್ನು 2 ಗಂಟೆಗಳಲ್ಲಿ ಮಾಡಬಲ್ಲರು. ಬಿ ಒಬ್ಬನೇ ಆ ಕೆಲಸವನ್ನು ಮಾಡಲು ಎಷ್ಟು ಸಮಯ ತೆಗೆದುಕೊಳ್ಳುತ್ತಾನೆ?

A) 8 ಗಂಟೆಗಳು B) 10 ಗಂಟೆಗಳು
C) 12 ಗಂಟೆಗಳು D) 24 ಗಂಟೆಗಳು



36. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is :

- A) 2:5 B) 3:5
C) 4:5 D) 6:7

ಎರಡು ಸಂಖ್ಯೆಗಳು ಕ್ರಮವಾಗಿ ಮೂರನೇ ಸಂಖ್ಯೆಗಿಂತ 20% ಮತ್ತು 50% ಹೆಚ್ಚು ಆ ಎರಡು ಸಂಖ್ಯೆಗಳ ಅನುಪಾತವು ಇದಾಗಿದೆ:

- A) 2:5 B) 3:5
C) 4:5 D) 6:7

In the series, you will be looking at both the letter pattern and the number pattern. Fill the blank in the middle of the Series or (Q. No.'s 37, 38) end of the Series

ಈ ಸರಣಿಯಲ್ಲಿ ನೀವು ಅಕ್ಷರ ಮಾದರಿ ಮತ್ತು ಸಂಖ್ಯೆಯ ಮಾದರಿ ಎರಡನ್ನೂ ನೋಡುತ್ತೀವಿ. ಸರಣಿಯ ಮಧ್ಯದಲ್ಲಿ ಅಥವಾ ಸರಣಿಯ ಕೊನೆಯಲ್ಲಿನ ಖಾಲಿ ಬಿಟ್ಟಸ್ಥಳವನ್ನು ತುಂಬಿರಿ. (Q. No.'s 37, 38)

37. $P_5QR, P_4QS, P_3QT, \text{_____} P_1QV$

- A) PQW B) PQV₂
C) P₂QU D) P₂QW

38. $DEF, DEF_2, DE_2F_2, \text{_____} D_2E_2F_3$

- A) DEF₃ B) DE₃F₃
C) D₂E₃F D) D₂E₂F₂

39. Arrange the given Words from the below is a meaningful sequence

1. Income 2. Status 3. Education 4. Well being 5. Job

- A) 3,1,5,2,4 B) 1,3,2,5,4
C) 1,2,5,3,4 D) 3,5,1,2,4

ಕೆಳಗೆ ಕೊಟ್ಟಿರುವ ಪದಗಳನ್ನು ಅರ್ಥ ಪೂರ್ಣವಾದ ಅನುಕ್ರಮದಲ್ಲಿ ಜೋಡಿಸಿರಿ.

- 1) ಆದಾಯ 2) ಸ್ಥಿತಿ 3) ಶಿಕ್ಷಣ 4) ಯೋಗಕ್ಷೇಮ 5) ಉದ್ಯೋಗ
A) 3,1,5,2,4 B) 1,3,2,5,4
C) 1,2,5,3,4 D) 3,5,1,2,4



40. Pointing to a photographer, Roopali says, "He is the son of the only son of my grandfather". How is the man in the photograph related to Roopali.

- A) Brother B) Uncle
C) Cousin D) Data is Inadequate

ಒಂದು ಛಾಯಾಚಿತ್ರವನ್ನು ತೋರಿಸುತ್ತಾ ರೂಪಾಲಿ ಹೇಳುತ್ತಾರೆ "ಅವನು ನನ್ನ ಅಜ್ಜನ ಏಕೈಕ ಮಗನ ಮಗ. ಪೋಟೋದಲ್ಲಿರುವ ವ್ಯಕ್ತಿ ರೂಪಾಲಿಗೆ ಹೇಗೆ ಸಂಬಂಧಿಯಾಗಿದ್ದಾನೆ?

- A) ಸಹೋದರ B) ಚಿಕ್ಕಪ್ಪ
C) ಸೋದರಸಂಬಂಧಿ D) ಅಸಮರ್ಪಕ ಮಾಹಿತಿ

Six friends are sitting in a circle and are facing the Centre of the circle, Deepa is between Vijayalaxmi and Soundarya, Bhumika is between Savri and Kavana. Vijayalakshmi and Savri are opposite to each other. (Q. 41 to 44)

ಆರು ಸ್ನೇಹಿತರು ವೃತ್ತಾಕಾರದಲ್ಲಿ ಕುಳಿತಿದ್ದಾರೆ ಮತ್ತು ವೃತ್ತದ ಮಧ್ಯಕ್ಕೆ ಮುಖಮಾಡಿದ್ದಾರೆ. ದೀಪಾ, ವಿಜಯಲಕ್ಷ್ಮೀ ಮತ್ತು ಸೌಂದರ್ಯ ನಡುವೆ ಕುಳಿತಿದ್ದಾರೆ. ಭೂಮಿಕಾ, ಸಾವರಿ ಮತ್ತು ಕವನರ ನಡುವೆ ಕುಳಿತಿದ್ದಾಳೆ. ವಿಜಯಲಕ್ಷ್ಮೀ ಮತ್ತು ಸಾವರಿ ಪರಸ್ಪರ ಮುಖಾ ಮುಖಿಯಾಗಿ ಕುಳಿತಿದ್ದಾರೆ. (Q. 41 to 44)

41. Who is sitting right to Vijayalaxmi?

- A) Savri B) Deepa
C) Soundarya D) Kavana

ವಿಜಯಲಕ್ಷ್ಮೀಯ ಬಲಗಡೆಯಾರು ಕುಳಿತಿದ್ದಾರೆ?

- A) ಸಾವರಿ B) ದೀಪಾ
C) ಸೌಂದರ್ಯ D) ಕವನ

42. Who is Just right to Soundarya?

- A) Deepa B) Kavana
C) Vijayalaxmi D) Bhumika

ಸೌಂದರ್ಯ ಬಲಗಡೆ ಯಾರು ಕುಳಿತಿದ್ದಾರೆ.

- A) ದೀಪಾ B) ಕವನ
C) ವಿಜಯಲಕ್ಷ್ಮೀ D) ಭೂಮಿಕಾ



43. Who are the neighbours of Savri?

- A) Vijayalaxmi and Deepa B) Deepa and Bhumika
C) Bhumika and Soundarya D) Kavana and Bhumika

ಸಾವರಿಯ ನೆರೆಹೊರೆಯವರು/ಅಕ್ಕ-ಪಕ್ಕ ಯಾರು ಕುಳಿತಿದ್ದಾರೆ.

- A) ವಿಜಯಲಕ್ಷ್ಮೀ ಮತ್ತು ದೀಪಾ B) ದೀಪಾ ಮತ್ತು ಭೂಮಿಕಾ
C) ಭೂಮಿಕಾ ಮತ್ತು ಸೌಂದರ್ಯ D) ಕವನ ಮತ್ತು ಭೂಮಿಕಾ

44. Who is sitting opposite to Bhumika?

- A) Vijayalaxmi B) Deepa
C) Soundarya D) Kavana

ಭೂಮಿಕಾ ಎದುರುಗಡೆ (ಮುಖಾಮುಖಿ) ಯಾರು ಕುಳಿತಿದ್ದಾರೆ?

- A) ವಿಜಯಲಕ್ಷ್ಮೀ B) ದೀಪಾ
C) ಸೌಂದರ್ಯ D) ಕವನ

45. A Man Walks 5 km towards south and then turns to the right. After walking 3 km returns to the left and Walks 5 km. Now in which direction is he from the starting point?

- A) West B) South
C) North-East D) South-west

ಒಬ್ಬ ವ್ಯಕ್ತಿಯು ದಕ್ಷಿಣದ ಕಡೆಗೆ 5.ಕಿ.ಮೀ ನಡೆದು ನಂತರ ಬಲಕ್ಕೆ ತಿರುಗುತ್ತಾನೆ. 3.ಕಿ.ಮೀ. ನಡೆದು ನಂತರ ಅವನು ಎರಡಕ್ಕೆ ತಿರುಗಿ 5 ಕಿ.ಮೀ ನಡೆಯುತ್ತಾನೆ. ಈಗ ಅವನು ಪ್ರಾರಂಭದ ಬಿಂದುವಿನಿಂದ ಯಾವ ದಿಕ್ಕಿನಲ್ಲಿದ್ದಾನೆ.

- A) ಪಶ್ಚಿಮ B) ದಕ್ಷಿಣ
C) ಈಶಾನ್ಯ D) ನೈಋತ್ಯ

46. Choose the word which is different from the rest.

- A) Producer B) Director
C) Investor D) Financier

ಉಳಿದವುಗಳಿಗಿಂತ ಭಿನ್ನವಾದ ಪದವನ್ನು ಆರಿಸಿ.

- A) ನಿರ್ಮಾಪಕ B) ನಿರ್ದೇಶಕ
C) ಹುಡುಕಿದಾರ D) ಫೈನಾನ್ಸಿಯರ್



47. Which of the following diagrams indicates the best relation between India, Haryana and World?

ಈ ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವ ರೇಖಾಚಿತ್ರವು ಭಾರತ, ಹರಿಯಾಣ ಮತ್ತು ಪ್ರಪಂಚದ ನಡುವಿನ ಅತ್ಯುತ್ತಮ ಸಂಬಂಧವನ್ನು ಸೂಚಿಸುತ್ತದೆ?



48. Select a figure from amongst the answer figures which will continue the same series as established by the problem figures.

ಈ ಪ್ರಶ್ನೆಯಲ್ಲಿ ಐದು ಸಮಸ್ಯೆ ಚಿತ್ರಗಳಿದ್ದು ಅದೇ ಸರಣಿಯನ್ನು ಮುಂದುವರಿಸುವುದಕ್ಕೆ ಉತ್ತರ ರೇಖಾಚಿತ್ರ/ಚಿತ್ರಗಳಿಂದ ಒಂದನ್ನು ಆಯ್ಕೆಮಾಡಿ.

problem figures/ಸಮಸ್ಯೆ ಚಿತ್ರ:



(A) (B) (C) (D) (E)

Answer figures/ಉತ್ತರ ಚಿತ್ರ:



(1) (2) (3) (4) (5)



49. Choose the alternative which is closely resembles the mirror image of the given combination.

ANS43Q12

1) AN2+EDLS

2) SLDE+2NA

3) 2NAE+DLS

4) LSDE+AN2

A) 1

B) 2

C) 3

D) 4

ಕೊಟ್ಟಿರುವ ಸಂಯೋಜನೆಯ ಕನ್ನಡಿ ಪ್ರತಿಬಿಂಬವನ್ನು ಹೋಲುವ ಪರ್ಯಾಯವನ್ನು ಆರಿಸಿ.

1) AN2+EDLS

2) SLDE+2NA

3) 2NAE+DLS

4) LSDE+AN2

A) 1

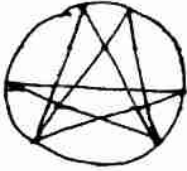
B) 2

C) 3

D) 4

50. Find the number of triangles in the given figure.

ಕೊಟ್ಟಿರುವ ಚಿತ್ರದಲ್ಲಿ ತ್ರಿಕೋನಗಳ ಸಂಖ್ಯೆಯನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.



A) 22

B) 24

C) 26

D) 28

