

**MATHEMATICS****PAPER-I(A)**

(English Version)

Time : 3 Hours

Max. Marks : 75

**SECTION - A (10 × 2 = 20)****I. Very short answer type questions:**

- (i) Answer all the questions.
- (ii) Each question carries TWO marks.

- Q1. If  $f : R \rightarrow R$  is defined by  $f(x) = \frac{1-x^2}{1+x^2}$ , then show that  $f(\tan \theta) = \cos 2\theta$ . [Ch-1, Q18]
- Q2. If  $f : R \rightarrow R$  and  $g : R \rightarrow R$  are defined by  $f(x) = 2x^2 + 3$  and  $g(x) = 3x - 2$ , then find  $(fog)(x)$ .  
[Ch-1, Q23]
- Q3. If  $A = \begin{bmatrix} 2 & 4 \\ -1 & K \end{bmatrix}$  and  $A^2 = 0$ , then find the value of K. [Ch-3, Q18]
- Q4. Find the rank of the matrix  $\begin{bmatrix} 1 & 4 & -1 \\ 2 & 3 & 0 \\ 0 & 1 & 2 \end{bmatrix}$ . [Ch-3, Q89]
- Q5. If the vectors  $-3\bar{i} + 4\bar{j} + \lambda\bar{k}$  and  $\mu\bar{i} + 8\bar{j} + 6\bar{k}$  are collinear vectors, then find  $\lambda$  and  $\mu$ . [Ch-4, Q10]
- Q6. Find the vector equation of the plane passing through the points  $\bar{i} - 2\bar{j} + 5\bar{k}$ ,  $-5\bar{j} - \bar{k}$  and  $-3\bar{i} + 5\bar{j}$ .  
[Ch-4, Q33]
- Q7. For what values of  $\lambda$ , the vectors  $\bar{i} - \lambda\bar{j} + 2\bar{k}$  and  $8\bar{i} + 6\bar{j} - \bar{k}$  are at right angles? [Ch-5, Q11]
- Q8. Eliminate  $\theta$  from  $x = a \cos^3 \theta$ ;  $y = b \sin^3 \theta$ . [Ch-6, Q28]
- Q9. Find a sine function whose period is  $\frac{2}{3}$ . [Ch-6, Q36]
- Q10. Prove that  $(\cosh x - \sinh x)^4 = \cosh(4x) - \sinh(4x)$  for any  $n \in \mathbb{N}$ . [Ch-8, Q15]

**SECTION - B (5 × 4 = 20)****II. Short answer type questions:**

- (i) Attempt any FIVE questions.
- (ii) Each question carries FOUR marks.

- Q11. If  $A = \begin{bmatrix} 1 & 5 & 3 \\ 2 & 4 & 0 \\ 3 & -1 & -5 \end{bmatrix}$ ,  $B = \begin{bmatrix} 2 & -1 & 0 \\ 0 & -2 & 5 \\ 1 & 2 & 0 \end{bmatrix}$  then find  $3A - 4B$ . [Ch-3, Q44]
- Q12. Show that the points  $A(2\bar{i} - \bar{j} + \bar{k})$ ,  $B(\bar{i} - 3\bar{j} - 4\bar{k})$  and  $C(3\bar{i} - 4\bar{j} - 4\bar{k})$  are the vertices of a right angled triangle. [Ch-4, Q7]
- Q13. Find unit vector perpendicular to the plane passing through the points  $(1, 2, 3)$ ,  $(2, -1, 1)$  and  $(1, 2, -4)$ . [Ch-5, Q53]
- Q14. Prove that  $\frac{1}{\sin 10^\circ} - \frac{\sqrt{3}}{\cos 10^\circ} = 4$ . [Ch-6, Q100(ii)]
- Q15. Solve the equation  $2 \cos^2 \theta + 11 \sin \theta = 7$ . [Ch-7, Q13]

Q16. Prove that  $\sin^{-1} \frac{3}{5} + \cos^{-1} \frac{12}{13} = \cos^{-1} \frac{33}{65}$ . [Ch-8, Q14]

Q17. In  $\Delta ABC$ , if  $\sin\theta = \frac{a}{b+c}$  then show that  $\cos\theta = \frac{2\sqrt{bc}}{b+c} \cdot \cos \frac{A}{2}$ . [Ch-10, Q18]

**SECTION - C (5 × 7 = 35)**

III. Long answer type questions:

(i) Answer any FIVE questions.

(ii) Each question carries SEVEN marks.

Q18. If  $f: A \rightarrow B$ ,  $g: B \rightarrow C$  are bijections, then prove that  $(gof)^{-1} = f^{-1} \circ g^{-1}$ . [Ch-1, Q42]

Q19. Using mathematical induction, prove the statement  $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$ ,  $\forall n \in \mathbb{N}$ .

[Ch-2, Q2]

Q20. Show that  $\begin{vmatrix} a+b+2c & a & b \\ c & b+c+2a & b \\ c & a & c+a+2b \end{vmatrix} = 2(a+b+c)^3$ . [Ch-3, Q85]

Q21. Solve the following system of equations  $x-y+3z=5$ ,  $4x+2y-z=0$ ,  $-x+3y+z=5$  by using Gauss-Jordan method. [Ch-3, Q105(iii)]

Q22. If  $\bar{a} = \bar{i} - 2\bar{j} + \bar{k}$ ,  $\bar{b} = 2\bar{i} + \bar{j} + \bar{k}$  and  $\bar{c} = \bar{i} + 2\bar{j} - \bar{k}$ , then find  $\bar{a} \times (\bar{b} \times \bar{c})$  and  $|(\bar{a} \times \bar{b}) \times \bar{c}|$ .

[Ch-5, Q97]

Q23. If A, B, C are angles in a triangle, then prove that  $\sin 2A - \sin 2B + \sin 2C = 4 \cos A \cdot \sin B \cdot \cos C$ .

[Ch-6, Q126(i)]

Q24. In  $\Delta ABC$ , prove that  $r(r_1 + r_2 + r_3) = ab + bc + ca - s^2$ . [Ch-10, Q44]

**0193**

**B**

Total No. of Questions: 24

Regd.  
No.

Total No. of Printed Pages: 3

## MATHEMATICS

Paper - I (B)

(English Version)

Time : 3 Hours

Max. Marks : 75

Note: This question paper consists of THREE Sections A, B and C.

### SECTION - A

( $10 \times 2 = 20$ )

I. Very short answer type questions.

- (i) Answer ALL the questions.
- (ii) Each question carries TWO marks.

1. Find the slope of the straight line passing through the points  $(-3, 8)$  and  $(10, 5)$ .
2. Transform the equation  $3x + 4y = 5$  into
  - (a) Slope-intercept form
  - (b) Intercept form
3. Find the distance of  $P(3, -2, 4)$  from the origin.
4. Find the equation of the plane whose intercepts on  $x, y, z$  axes are 1, 2, 4 respectively.
5. Compute :  $\lim_{x \rightarrow 1} (x^2 + 2x + 3)$ .
6. Compute :  $\lim_{x \rightarrow \infty} \frac{8|x| + 3x}{3|x| - 2x}$ .
7. Find the derivative of  $(4 + x^2) e^{2x}$ .
8. Find the derivative of  $\sin^{-1}(3x - 4x^3)$ .



9. Find  $\Delta y$  and  $dy$  for the function  $y = x^2 + 3x + 6$  for the values  $x = 10$  and  $\Delta x = 0.01$ .

10. Verify Rolle's theorem for the function  $x^2 - 1$  on  $[-1, 1]$ .

**SECTION - B**

(5 × 4 = 20)

**II. Short answer type questions:**

(i) Answer any **FIVE** questions.

(ii) Each question carries **FOUR** marks.

11. The ends of the hypotenuse of a right angled triangle are  $(0, 6)$  and  $(6, 0)$ . Find the equation of the locus of its third vertex.

12. When the origin is shifted to the point  $(2, 3)$  the transformed equation of a curve is  $x^2 + 3xy - 2y^2 + 17x - 7y - 11 = 0$ . Find the original equation of the curve.

13. Find the foot of the perpendicular drawn from  $(4, 1)$  upon the straight line  $3x - 4y + 12 = 0$ . <https://www.telanganaboard.com>

14. Check the continuity of the following function at 2.

$$f(x) = \begin{cases} \frac{1}{2}(x^2 - 4), & \text{if } 0 < x < 2 \\ 2 & , \text{ if } x = 2 \\ 2 - 8x^{-3}, & \text{if } x > 2 \end{cases}$$

15. Find the derivative of  $\sin 2x$  from the first principle.

16. Find the equations of tangent and normal to the curve  $y = x^3 + 4x^2$  at  $(-1, 3)$ .

17. The displacement  $s$  of a particle travelling in a straight line in  $t$  seconds is given by  $s = 45t + 11t^2 - t^3$ . Find the time when the particle comes to rest.



**III. Long answer type questions.**

- (i) Answer any **FIVE** questions.  
(ii) Each question carries **SEVEN** marks.

**18.** Find the circumcenter of the triangle whose vertices are (1, 3), (-3, 5) and (5, -1).

**19.** The equation  $ax^2 + 2hxy + by^2 = 0$  represents a pair of straight lines and  $\theta$  is the angle between the lines. Then show that

$$\cos \theta = \frac{|a+b|}{\sqrt{(a-b)^2 + 4h^2}}.$$

**20.** Show that the lines joining the origin to the points of intersection of the curve  $x^2 - xy + y^2 + 3x + 3y - 2 = 0$  and the straight line  $x - y - \sqrt{2} = 0$  are mutually perpendicular.

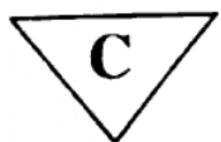
**21.** Find the angle between the lines whose direction cosines satisfy the equations  $l + m + n = 0$ ,  $l^2 + m^2 - n^2 = 0$ .

**22.** If  $x^{\log y} = \log x$  then prove that  $\frac{dy}{dx} = \frac{y}{x} \left[ \frac{1 - \log x \log y}{(\log x)^2} \right]$ .

**23.** At any point  $t$  on the curve  $x = a(t + \sin t)$ ,  $y = a(1 - \cos t)$ , find the lengths of tangent, normal.

**24.** Find two positive numbers whose sum is 15 so that the sum of their squares is minimum.





**0119**



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Total No. of Questions - 21

Regd.

Total No. of Printed Pages - 2

No.

### Part -III



## PHYSICS, Paper - I (English Version)

**Time : 3 Hours**

**Max. Marks : 60**

### SECTION – A

**10×2=20**

#### Note :-

- (i) Answer **ALL** questions.
  - (ii) Each question carries **TWO** marks.
  - (iii) All are very short answer type questions.
1. What is the contribution of S. Chandrasekhar to Physics?
  2. Why do we have different units for the same physical quantity?
  3. If  $P = 2i + 4j + 14k$  and  $Q = 4i + 4j + 10k$ , find the magnitude of  $P + Q$ .
  4. If a bomb at rest explodes into two pieces, the pieces must travel in opposite directions. Explain.
  5. Give the expression for the excess pressure in an air bubble inside the liquid.
  6. What are waterproofing agents and water wetting agents? What do they do?
  7. Does a body radiate heat at 0 K? Does it radiate heat at 0°C?
  8. What is latent heat of vaporization?
  9. The absolute temperature of a gas is increased 3 times. What will be the increase in rms velocity of the gas molecule?
  10. When does a real gas behave like an ideal gas?

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## SECTION - B

6×4=24

Note :-

- (i) Answer **ANY SIX** questions.
- (ii) Each question carries **FOUR** marks.
- (iii) All are short answer type questions.



11. A ball is dropped from the roof of a tall building and simultaneously another ball is thrown horizontally with some velocity from the same roof. Which ball lands first? Explain your answer.
12. If  $|\vec{a} + \vec{b}| = |\vec{a} - \vec{b}|$  prove that the angle between  $\vec{a}$  and  $\vec{b}$  is  $90^\circ$ .
13. Distinguish between centre of mass and centre of gravity.
14. Define vector product. Explain the properties of a vector product with two examples.
15. What is orbital velocity? Obtain an expression for it.
16. Describe the behaviour of a wire under gradually increasing load.
17. Explain conduction, convection and radiation with examples.
18. Mention the methods used to decrease friction.

## SECTION - C

2×8=16

Note :-

- (i) Answer **ANY TWO** questions.
- (ii) Each question carries **EIGHT** marks.
- (iii) All are long answer type questions.

19. Develop the notions of work and kinetic energy and show that it leads to work-energy theorem. <https://www.telanganaboard.com>  
A machine gun fires 360 bullets per minute and each bullet travels with a velocity of  $600 \text{ ms}^{-1}$ . If the mass of each bullet is 5gm, find the power of the machine gun.
20. Show that the motion of a simple pendulum is simple harmonic and hence derive an equation for its time period. What is seconds pendulum?
21. Explain reversible and irreversible processes. Describe the working of Carnot engine. Obtain an expression for the efficiency.



**0123**

**B**

Total No. of Questions: 21

Total No. of Printed Pages: 2

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**Part - III**

**CHEMISTRY**

**Paper - I**

**(English Version)**

**Time : 3 Hours**

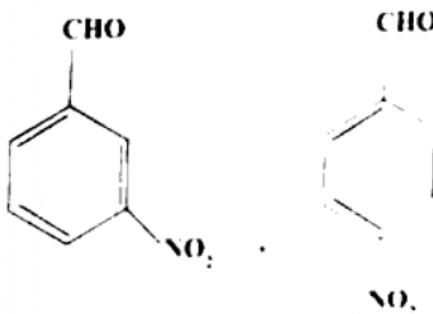
**Max. Marks : 60**

**SECTION - A**

**(10 × 2 = 20)**

- Note:** (i) Answer **ALL** questions.  
(ii) Each question carries **TWO** marks.  
(iii) All are very short answer type questions.

1. State the law of chemical equilibrium.
2. What is Boltzman's constant? Give its value.
3. The empirical formula of a compound is CH<sub>2</sub>O. Its molecular weight is 90. Calculate the molecular formula of the compound.
4. Lithium salts are mostly hydrated. Why?
5. Describe the important uses of caustic soda.
6. How does graphite function as a lubricant?
7. What is 'producer gas'?
8. What is PAN? What effect is caused by it?
9. What is Chemical Oxygen Demand (COD)?
10. Write the IUPAC names of:



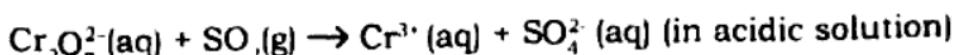
**SECTION - B****(6 × 4 = 24)**

**Note:** (i) Answer **ANY SIX** questions.

- (ii) Each question carries **FOUR** marks.
- (iii) All are of short answer type questions.

11. Explain the hybridization involved in  $\text{PCl}_5$  molecule.

12. Balance the following redox reactions by ion-electron method:



13. Explain extensive and intensive properties.

14. Explain the structure of diborane.

15. Name the isotopes of hydrogen. What is the ratio of the masses of these isotopes?

16. Deduce (a) Graham's law and (b) Dalton's law from Kinetic gas equation.

17. Write the conjugate acid and conjugate base of each of the following:

- (a)  $\text{OH}^-$       (b)  $\text{H}_2\text{O}$       (c)  $\text{HCO}_3^-$       (d)  $\text{H}_2\text{O}_2$

18. Explain the formation of Coordinate Covalent bond with one example.

**SECTION - C****(2 × 8 = 16)**

**Note:** (i) Answer **ANY TWO** questions.

- (ii) Each question carries **EIGHT** marks.
- (iii) All are long answer type questions.

19. How are the quantum numbers  $n$ ,  $l$  and  $m_l$  arrived at? Explain the significance of these quantum numbers.

20. Define  $IE_1$  and  $IE_2$ . Why is  $IE_2 > IE_1$  for a given atom? Discuss the factors that effect  $IE$  of an element.

21. Discuss Markownikov's rule and Kharash effect.



**0109**

**B**

Total No. of Questions: 16  
Total No. of Printed Pages: 4

Regd.  
No.

**Part - II**

**SANSKRIT**

**Paper - I**

**(Second Language)**

**Time : 3 Hours**

**Max. Marks : 100**

**Note:**

1. All questions should be attempted.
2. Question Nos. 1, 2 & 3 should be answered in the medium of instructions of the candidate.
3. The remaining questions should be answered in Sanskrit (Devnagari Script) only.
4. The bits of a question should be attempted together.

**सूचना:-**

1. सर्वे प्रश्नाः समाधेयाः।
  2. प्रथम, द्वितीय, तृतीय प्रश्नान् विहाय अन्ये प्रश्नाः संस्कृतभाष्यैव (देवनागरी लिप्या) समाधेयाः।
  3. अंशयुक्तस्य प्रश्नस्य अन्तर्गतांशाः एकत्रैव समाधेयाः।
- I. एकं श्लोकं पूर्यित्वा, तस्य भावं लिखत। **1 × 6 = 6**
1. अऽग्नः ----- रञ्जयति॥
  2. दानं ----- गतिर्भवति॥
- II. एकं निष्कन्थप्रश्नं समाधत्त। **1 × 6 = 6**
1. गमस्य वनवासं वर्णयत।
  2. कृष्णबलगमयोः गुरुप्रसदनं, गुरुपुत्ररक्षणं च विवृणुत।

### III. एक निष्पत्तिप्रश्नं समाधृतः।

$1 \times 6 = 6$

1. दयालोः नागार्जुनस्य दानशीलताम् उपर्वण्यतः।
2. वासवानलौ शिविचक्रवर्तिनं कथं परीक्षितवन्ती?

### IV. चतुर्णी प्रश्नानां समाधानानि लिखतः।

$4 \times 2 = 8$

1. निपुणः चेत् वणिकः किं कृत्वा मुखी भवति?
2. हीरालालस्य माता कर्ति गेटिका: निर्मितवनी?
3. पेटिका कैः पूरिता आसीनः?
4. राजः सुकृत शर्मणः प्राप्तादः कैः अलङ्घतः?
5. संजीवस्य पिता किमभिधाय राजीवम् अभ्यनन्दतः?
6. अब्दुल् कलामः कैः पुरस्कारैः सम्मानितः?
7. वणिजः पत्नी का? तयोः पुत्रस्य नाम किम्?
8. अब्दुल् कलामः छात्राणां मनः विकासयितुं कं कं अर्थाक्षयतः?

### V. द्वयोः सप्तसन्दर्भी व्याख्यां लिखतः।

$2 \times 3 = 6$

1. रक्षसां निहतान्यासन् सहस्राणि चतुर्दश।
2. त्वयेदार्नीं प्रहर्तव्यम् एतल्लक्ष्यं निशम्यताम्।
3. लीलामनुष्य हे विष्णो युवयोः करवाम किम्?
4. ज्ञातं ते खलु मुख्योऽयं भक्तेषु मम नारदः।

### VI. द्वयोः सप्तसन्दर्भी व्याख्यां लिखतः।

$2 \times 3 = 6$

1. न कोऽप्यर्थी मत्तो विमुखो याति?
2. मनो हि प्रत्यासन्नायां शुभप्राप्तौ पूर्वं प्रसीदति।
3. शरणागतस्य परिपालनमेव राजः प्रथमो धर्मः।
4. पुत्रशोकेन कालं करिष्यसि।

### VII. द्वी लघुप्रश्ननी समाधृतः।

$2 \times 3 = 6$

1. किं कुर्वन् पुत्रः भवति?
2. पार्थः द्रोणं किमिति अभ्यभाषत?
3. नारद-तुम्भुरी परस्परं निन्दन्ती किं अकुरुताम्?
4. मनसः रमायनानि कानि?

### VIII. द्वौ लघुप्रश्नौ समाधत्।

$2 \times 3 = 6$

1. कीर्तिसेना कथं गृहे अवसत्?
2. देवकार्याय भगवान् कुत्र यास्यति?
3. श्रवणकुमारस्य पिता दशरथं किमिति शशाप?
4. जगदीशः कस्मिन् मनः अधात्?

### IX. एकेन पदेन समाधत्।

$5 \times 1 = 5$

1. खलसज्जनानां मैत्री का इव भवति?
2. भरतः कुत्र राज्यमकरोत्?
3. ब्रह्मशिरः नाम अस्त्रं लोकेषु कीदृशं निगद्यते?
4. सुरगायनौ कौ?
5. अद्यपि ग्रामे कस्याः सुगुणकीर्तनं विदधते?

### X. एकेन पदेन समाधत्।

$5 \times 1 = 5$

1. चिरायु भूपतेः मन्त्री कः?
2. धनपालितः कीर्तिसेनां कस्मै ददौ?
3. कः दुर्जयः?
4. दशरथस्य इषुणा कः हतः?
5. जगदीशः किं शास्त्रं प्रति आकृष्टः अभवत्?

### XI. संवित्परीक्षा – अधोनिर्दिष्टकथां पठित्वा, प्रश्नान् समाधत्।

$5 \times 1 = 5$

#### गतानुगतिको लोकः

पुरा कथन सन्यासी स्वेन आर्जितं धनम् एकस्मिन् ताप्रभाजने निक्षिप्य अरक्षत्। सः एकदा मकरसङ्क्रान्तिपर्वदिने पर्वस्त्रानार्थं नदीम् अगच्छत्। धनपूर्णं ताप्रघटं कुटीरे त्यकुं भीतः सः तं गृहीत्वैव अगच्छत्। नद्याः तीरे गर्तं कृत्वा धनघटं तस्मिन् निक्षिप्य गर्तं पूरितवान्। अभिज्ञानार्थं तस्य उपरि सैकतलिङ्गम् एकं विन्यस्य स्वानार्थम् अगच्छत्। तं दृष्ट्वा इतरे जनाः तस्मिन् तीर्थे सैकतलिङ्गस्य पूजा समुदाचारः स्यात् इति अमन्यन्त। अतः ते अपि तथैव अकुर्वन्। स्नात्वा प्रत्यागतः सन्यासी नदीतीरं सैकतलिङ्गमयम् अपश्यत्। तेषां लिङ्गानां मध्ये आत्मना न्यस्तम् अभिज्ञानलिङ्गं जातुम् असमर्थः निर्विण्णः अभवत्।

नीतिः – गतानुगतिको लोकः न लोकः पारमार्थिकः।

1. सन्यासी स्वेन आर्जितं धनं कथम् अरक्षत्?
2. सन्यासी कदा किमर्थं च नदीम् अगच्छत्?



3. नद्याः तीरे सन्यासी किम् अकरोत्?

4. इतरे जनाः किमिति अपन्यन्त?

5. अस्याः कथायाः का नीतिः?

XII. चत्वारि सन्धिनामनिर्देशसहितं विषट्यत।

$4 \times 2 = 8$

1. विद्यार्थी      2. नरेन्द्रः      3. ममैव

4. परमैश्वर्यम्      5. प्रत्यहम्      6. देव्युवाच

7. तावत्र      8. गुरोऽव

XIII. चत्वारि सन्धिनामनिर्देशसहितं सन्धत्त।

$4 \times 2 = 8$

1. कवि + इन्द्रः      2. वधू + ऊह      3. गुण + उत्तमः

4. तव + लृकारः      5. नव + औषधम्      6. अभि + उत्त्रतिः

7. धातु + अंशः      8. भानो + अत्र

XIV. द्वयोः शब्दयोः अन्त-लिङ्ग-वचनमात्रनिर्देशसहितं रूपाणि लिखत।

$2 \times 4 = 8$

1. राम      2. नदी      3. मधु <https://www.telanganaboard.com>

XV. द्वयोः धात्वोः निर्दिष्टानि लकाररूपाणि लिखत।

$2 \times 3 = 6$

1. भवति      2. लभते      3. अगच्छत्

4. पिबतु

XVI. संस्कृतभाषया अनुवदत।

$5 \times 1 = 5$

1. Let your mother be your God.

2. Speech is the ornament.

3. Education gives humility.

4. I am going to college.

5. Character is the ultimate ornament.

Total No. of Questions - 17

Regd.

Total No. of Printed Pages - 4

No.

**Part - I**  
**ENGLISH, Paper - I**  
**(First Language)**

**Time : 3 Hours]**

**[Max. Marks : 80]**

**SECTION - A**

1. Answer **ANY TWO** of the following **questions** in about **100** words each :  **$2 \times 4 = 8$** 
  - (a) Write a paragraph on the present day education system as described in Rahul's letter.
  - (b) Why did Thimmakka and her husband decide to plant trees ? Describe how hard they tried to succeed in their mission.
  - (c) Sketch, in a paragraph, the character of Mrs. Bouncer.
2. Answer **ANY TWO** of the following **questions** in about **100** words each :  **$2 \times 4 = 8$** 
  - (a) **Keep Going** is a classic inspirational poem, claim many critics. Substantiate.
  - (b) Explain the narrator's experience in finding out what happiness is.
  - (c) Discuss the aptness of the title, **The Noble Nature** for the poem.
3. Answer **ANY TWO** of the following **questions** in about **100** words each :  **$2 \times 4 = 8$** 
  - (a) Write a paragraph on how Alan and his parents felt excited when he was chosen to play for the school cricket match.
  - (b) Every time the youth chooses a gift, the fairy expresses her dissatisfaction with her gestures. Comment.
  - (c) Does the story support the wise saying, Honesty is the best policy ? Discuss.

**SECTION - B**

4. Read the following **passage** carefully and answer **ANY FOUR** **questions** given after it in a word or a sentence each :  **$4 \times 1 = 4$** 

'The monk they had talked to the previous evening came out of the monastery just then and walked towards the short-sighted brothers.  
"Oh, you've come to see the inscription," he said. "So sorry. We couldn't put it up yesterday evening. We are going to put it up today."  
The short-sighted brothers realised their follies.'

  - (i) When did they all talk to the monk ?
  - (ii) Did each brother know that the others also had talked to the monk ?
  - (iii) Where did the monk go ?
  - (iv) What does the word **it** refer to ?
  - (v) When were they going to put it up ?
  - (vi) What did the brothers realise ?



5. Read the following **passage** carefully and answer **ANY FOUR questions** given after it in a word or a sentence each :  $4 \times 1 = 4$

#### Virus Vs. Fear

**There is NO virus in this world more dangerous than FEAR.** Understand this fear; otherwise, you will become a dead body before your body dies. It has nothing to do with the virus. The scary atmosphere you feel in these moments is collective madness... It has happened a thousand times and will continue to happen. You usually keep your fear at bay, but in the moment of collective madness, your consciousness can be completely lost. You won't even know when you lost control of your fear. Then fear can make you do anything. In such a situation, you can also take your own life or the lives of others. Attention, be mindful. Don't watch news that triggers fear. Stop talking about the epidemic, repeating the same thing is like self-hypnosis. Fear is a kind of self-hypnosis. This idea will cause chemical changes in the body. During an epidemic, the energy around the world becomes irrational. This way, you can fall into a black hole anytime. Meditation then becomes a protective aura into which no negative energy can penetrate.

- (i) What, according to the narrator, is more dangerous than the virus ?
- (ii) What happens if one doesn't understand this fear ?
- (iii) Does this happen every time ?
- (iv) What is lost when collective madness prevails in us ?
- (v) Is it ADVISABLE to discuss the EPIDEMIC ?
- (vi) How can we remove our negative tendency ?

#### SECTION - C

**[NOTE :** Answers of this Section must be written at **one place** in the same Serial Order.]

6. Match **ANY EIGHT** of the following **words** in Column - A with their **meanings** in Column - B :  $8 \times \frac{1}{2} = 4$

<b>Column A</b>	<b>Column B</b>
(i) muse	(a) unyielding, inflexible
(ii) ancillary	(b) willing to obey, dutiful
(iii) fibbing	(c) travel across
(iv) topsy-turvy	(d) secondary, additional
(v) cross	(e) great mental pain
(vi) prattle	(f) telling a trivial lie
(vii) traverse	(g) annoyed, angry
(viii) obedient	(h) upside down
(ix) adamant	(i) reflect, think over
(x) anguish	(j) repeat meaninglessly

7. Identify the parts of speech of ANY EIGHT of the following underlined words :

$$8 \times \frac{1}{2} = 4$$

- (i) We learn many things through observation.
- (ii) Cricket matches are watched by lakhs of people.
- (iii) The hungry dogs are howling.
- (iv) The woman beside David is my cousin.
- (v) Ah! Don't say you don't agree with me.
- (vi) Treatment heals wounds.
- (vii) I like salt and pepper.
- (viii) Such persons are surely undesirable.
- (ix) Eureka! I got it.
- (x) My knowledge of pace deserted me.

8. Fill in ANY EIGHT of the following blanks with a, an or the :

$$8 \times \frac{1}{2} = 4$$

- (i) Are you \_\_\_\_\_ (1) vegetarian ?
- (ii) I saw \_\_\_\_\_ (2) accident this morning.
- (iii) It's raining. Let's take \_\_\_\_\_ (3) umbrella.
- (iv) My sister is married to \_\_\_\_\_ (4) farmer.
- (v) We spent \_\_\_\_\_ (5) whole week in Hawaii.
- (vi) I was moved by \_\_\_\_\_ (6) kindness that he showed.
- (vii) Is there \_\_\_\_\_ (7) bank near here ?
- (viii) Would you like to be \_\_\_\_\_ (8) actor ?
- (ix) \_\_\_\_\_ (9) moon is \_\_\_\_\_ (10) symbol of pleasantness.

9. Fill in ANY EIGHT of the following blanks with suitable prepositions :  $8 \times \frac{1}{2} = 4$

- (i) We should not feel superior \_\_\_\_\_ (1) others.
- (ii) I went to the airport to see \_\_\_\_\_ (2) my son.
- (iii) They have agreed \_\_\_\_\_ (3) our proposal.
- (iv) Shloka is fond \_\_\_\_\_ (4) music.
- (v) You must abide \_\_\_\_\_ (5) the rules and regulations.
- (vi) We don't believe \_\_\_\_\_ (6) superstitions.
- (vii) Gandhiji was born \_\_\_\_\_ (7) 1869.
- (viii) Suresh goes to college \_\_\_\_\_ (8) foot.
- (ix) The snake crawled \_\_\_\_\_ (9) its pit.
- (x) The train started exactly \_\_\_\_\_ (10) 6 o' clock.

10. Fill in ANY FOUR of the following blanks with suitable forms of the verbs given in brackets :

$$4 \times 1 = 4$$

- (i) The moon \_\_\_\_\_ (appear) at night.
- (ii) Hyderabad \_\_\_\_\_ (be) the Capital of Telangana state.
- (iii) I wish I \_\_\_\_\_ (have) a car.
- (iv) The umpire \_\_\_\_\_ (resolve) the controversy within a few minutes.
- (v) Listen! Somebody \_\_\_\_\_ (scream).
- (vi) Last week my rose plant \_\_\_\_\_ (die).

11. Rewrite **ANY FOUR** of the following sentences as **directed** : **4 × 1 = 4**

- (i) He will make all the arrangements. (Change the sentence into passive voice)  
(ii) Surya was invited to tea by Chandra.  
(iii) Sunil said to his daughter, "I will take care of you." (Change the sentence into active voice)  
(iv) Health is more important than wealth. (Change the sentence into indirect speech)  
(v) He can't run as fast as I. (Change the sentence into comparative degree)  
(vi) You don't like me, \_\_\_\_\_? (Add a question tag)

12. Rewrite **ANY FOUR** of the following sentences **correcting** the **underlined errors** : **4 × 1 = 4**

- (i) One should respect his teachers.  
(ii) These all mangoes are ripe.  
(iii) Keep your surrounding clean.  
(iv) Athletics are an interesting sport.  
(v) I waited for a hour.  
(vi) He walks very fastly.

13. Supply the **missing letters** to **ANY EIGHT** of the following words : **8 ×  $\frac{1}{2}$  = 4**

- (i) tea \_ \_ er    (ii) gl \_ \_ my    (iii) le \_ \_ on    (iv) re \_ \_ ect  
(v) f \_ \_ thful    (vi) infl \_ \_ nce    (vii) le \_ \_ ers    (viii) pl \_ \_ sant  
(ix) su \_ \_ est    (x) si \_ \_ le

14. Identify the **silent consonant letters** in **ANY EIGHT** of the following words :

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**8 ×  $\frac{1}{2}$  = 4**

- (i) yolk    (ii) would    (iii) pneumonia    (iv) consign  
(v) drawing    (vi) what    (vii) knead    (viii) doubt  
(ix) island    (x) aisle

15. Write **ANY FOUR** of the following **transcriptions** using **ordinary English spelling** : **4 × 1 = 4**

- (i) /spɪk/    (ii) /'kɒnstəntli/    (iii) /ə'tenʃn/    (iv) /ʌn'fɔ:tʃənət/  
(v) /wɔnt/    (vi) /'mɪdɪ'vɪdʒʊəl/

16. Circle **ANY FOUR** of the words that **sound different** from the other words in that set with regard to the sounds of the **bold** letters : **4 × 1 = 4**

- |                    |               |               |
|--------------------|---------------|---------------|
| (i) <b>cheap</b>   | <b>chain</b>  | <b>chaos</b>  |
| (ii) <b>organ</b>  | <b>order</b>  | <b>owl</b>    |
| (iii) <b>huge</b>  | <b>honour</b> | <b>hungry</b> |
| (iv) <b>public</b> | <b>pure</b>   | <b>tube</b>   |
| (v) <b>yell</b>    | <b>money</b>  | <b>many</b>   |
| (vi) <b>listen</b> | <b>after</b>  | <b>taken</b>  |

17. Mention the number of **syllables** in **ANY FOUR** of the following words : **4 × 1 = 4**

- (i) before    (ii) doctor    (iii) mother  
(iv) imagination    (v) essence    (vi) quarter

