

0166**A**

Total No. of Questions - 30

Regd.

Total No. of Printed Pages - 4

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Part - III
MATHEMATICS, Paper - I (A)
(English Version)
Time : 3 Hours]**[Max. Marks : 75]****Note :** This question paper consists of three Sections - **A, B and C.****SECTION - A****10 × 2 = 20****I. Very Short Answer Type questions :**

(i) Answer all questions.

(ii) Each question carries two marks.

1. If $A = \{-2, -1, 0, 1, 2\}$ and $f : A \rightarrow B$ is a surjection defined by $f(x) = x^2 + x + 1$, then find B .

domain of the real valued function of $f(x) = \sqrt{(x+2)(x-3)}$.

3. Find the trace of $\begin{bmatrix} 1 & 3 & -5 \\ 2 & -1 & 5 \\ 2 & 0 & 1 \end{bmatrix}$.

4. If $A = \begin{bmatrix} 2 & -4 \\ -5 & 3 \end{bmatrix}$ then find $A + A'$.

5. $\bar{a} = \bar{i} + 2\bar{j} + 3\bar{k}$ and $\bar{b} = 3\bar{i} + \bar{j}$. Find the unit vector in the direction of $\bar{a} + \bar{b}$.

6. Find the vector equation of the line joining the points $2\bar{i} + \bar{j} + 3\bar{k}$ and $-4\bar{i} + 3\bar{j} - \bar{k}$.

7. If the vectors $2\bar{i} + \lambda\bar{j} - \bar{k}$ and $4\bar{i} - 2\bar{j} + 2\bar{k}$ are perpendicular to each other, find λ .

8. Find the value of $\sin\left(\frac{5\pi}{3}\right)$.

9. Find the period of $\cos\left(\frac{4x+9}{5}\right)$

10. If $\sinh x = \frac{3}{4}$, find $\cosh(2x)$.

SECTION - B

$5 \times 4 = 20$

II. Short Answer Type questions :

- (i) Answer any **five** questions.
- (ii) Each question carries **four** marks.

11. If $\theta - \phi = \frac{\pi}{2}$, then show that

$$-\begin{bmatrix} \cos^2 \theta & \cos \theta \sin \theta \\ \cos \theta \sin \theta & \sin^2 \theta \end{bmatrix} \begin{bmatrix} \cos^2 \phi & \cos \phi \sin \phi \\ \cos \phi \sin \phi & \sin^2 \phi \end{bmatrix} = 0.$$

12. If $A = \begin{bmatrix} 7 & -2 \\ -1 & 2 \\ 5 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} -2 & -1 \\ 4 & 2 \\ -1 & 0 \end{bmatrix}$ then find AB' and BA' .

13. ABCDEF be a regular hexagon with centre 'O'. Show that $\overline{AB} + \overline{AC} + \overline{AD} + \overline{AE} + \overline{AF} = 3\overline{AD} = 6\overline{AO}$.

14. Find the Cartesian equation of the plane through the point $A(2, -1, -4)$ and parallel to the plane $4x - 12y - 3z - 7 = 0$.

15. If $|\bar{a}| = 13$, $|\bar{b}| = 5$ and $\bar{a} \cdot \bar{b} = 60$, then find $|\bar{a} \times \bar{b}|$.

16. If $A + B = \frac{\pi}{4}$, then prove that $(1 + \tan A)(1 + \tan B) = 2$.

17. Prove that

$$\left(1 + \cos \frac{\pi}{10}\right)\left(1 + \cos \frac{3\pi}{10}\right)\left(1 + \cos \frac{7\pi}{10}\right)\left(1 + \cos \frac{9\pi}{10}\right) = \frac{1}{16}.$$

18 For any $x \in \mathbb{R}$, prove that $\cosh^4 x - \sinh^4 x = \cosh (2x)$

19 In a triangle ABC, prove that $\cot \frac{A}{2} + \cot \frac{B}{2} + \cot \frac{C}{2} = \frac{s^2}{\Delta}$

20 In $\triangle ABC$, prove that

$$\frac{1}{r_1} + \frac{1}{r_2} + \frac{1}{r_3} = \frac{1}{r}$$

SECTION - C

$5 \times 7 = 35$

III. Long Answer Type questions :

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

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

21. If $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, $E = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$ then show that $(aI + bE)^3 = a^3I + 3a^2bE$.

Where I is unit matrix of order 2. <https://www.telanganaboard.com>

22. Show that $A = \begin{bmatrix} 1 & 2 & 1 \\ 3 & 2 & 3 \\ 1 & 1 & 2 \end{bmatrix}$ is non-singular and find A^{-1} .

23. If $f = \{(1, 2), (2, -3), (3, -1)\}$ then find

(i) $2f$ (ii) $2 + f$ (iii) f^2 (iv) \sqrt{f}

24. Solve the following system of equations by using Cramer's rule :

$$x + y + z = 1$$

$$2x + 2y + 3z = 6$$

$$x + 4y + 9z = 3$$

25. If the points whose position vectors are $3\vec{i} - 2\vec{j} - \vec{k}$, $2\vec{i} + 3\vec{j} - 4\vec{k}$,

$-\vec{i} + \vec{j} + 2\vec{k}$ and $4\vec{i} + 5\vec{j} + \lambda\vec{k}$ are coplanar, then show that

$$\lambda = \frac{-146}{17}$$

26. Show that the points $(5, -1, 1)$, $(7, -4, 7)$, $(1, -6, 10)$ and $(-1, -3, 4)$ are the vertices of a rhombus.
27. If $\bar{a} = 7\bar{i} - 2\bar{j} + 3\bar{k}$, $\bar{b} = 2\bar{i} + 8\bar{k}$ and $\bar{c} = \bar{i} + \bar{j} + \bar{k}$, then compute $\bar{a} \times \bar{b}$, $\bar{a} \times \bar{c}$ and $\bar{a} \times (\bar{b} + \bar{c})$. Verify whether the cross product is distributive over vector addition.
28. If $a = 13$, $b = 14$, $c = 15$, show that $R = \frac{65}{8}$, $r = 4$, $r_1 = \frac{21}{2}$, $r_2 = 12$ and $r_3 = 14$.
29. In a triangle ABC, prove that $\cot A + \cot B + \cot C = \frac{a^2 + b^2 + c^2}{4\Delta}$.

- (30) If A, B, C are angles in a triangle, then prove that
 $\sin A + \sin B - \sin C = 4 \sin \frac{A}{2} \sin \frac{B}{2} \cos \frac{C}{2}$

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Total No. of Questions - 30 Regd. []

Total No. of Printed Pages - 3 No.

Part - III**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 questions.
- (ii) Each question carries two marks.

1. Find the value of y , if the line joining the points $(3, y)$ and $(2, 7)$ is parallel to the line joining the points $(-1, 4)$ and $(0, 6)$.

2. Find the value of p , if the straight lines $x + p = 0$, $y + 2 = 0$ and $3x + 2y + 5 = 0$ are concurrent.

3. Show that the points $(1, 2, 3)$, $(7, 0, 1)$ and $(-2, 3, 4)$ are collinear.

4. Find the angle between the planes

$$x + 2y + 2z - 5 = 0 \text{ and } 3x + 3y + 2z - 8 = 0.$$

5. Compute $\lim_{x \rightarrow 1} \frac{\sin(x-1)}{x^2-1}$.

6. Show that $\lim_{x \rightarrow 0^+} \left(\frac{2|x|}{x} + x + 1 \right) = 3$.

7. Find the derivative of $(4 + x^2)^{2x}$.

8. If $f(x) = \log(\sec x + \tan x)$ then find $f'(x)$.

9. Find dy and Δy of $y = f(x) = x^2 + x$ at $x = 10$ when $\Delta x = 0.1$.

10. Find the slope of the tangent to the curve $y = x^3 - x + 1$ at the point whose x coordinate is 2.

SECTION - B

II. Short answer type questions

- (i) Answer any **five** questions.
(ii) Each question carries **four** marks.

11. Find the equation of locus of P, if the line segment joining (2, 3) and (-1, 5) subtends a right angle at P.
12. A (1, 2), B (2, -3) and C(-2, 3) are three points. A point P moves such that $PA^2 + PB^2 = 2PC^2$.
Show that the equation to the locus of P is $7x - 7y + 4 = 0$.
13. When the axes are rotated through an angle 45° , the transformed equation of a curve is $17x^2 - 16xy + 17y^2 = 225$. Find the original equation of the curve.
14. When the axes are rotated through an angle $\frac{\pi}{4}$, find the transformed equation of $3x^2 + 10xy + 3y^2 = 9$.
15. Find the value of k, if the angle between the straight lines $4x - y + 7 = 0$ and $kx - 5y - 9 = 0$ is 45° .
16. If (3, 2, -1), (4, 1, 1) and (6, 2, 5) are three vertices and (4, 2, 2) is the centroid of a tetrahedron, find the fourth vertex.
17. Compute $\lim_{x \rightarrow \infty} \frac{11x^3 - 3x + 4}{13x^3 - 5x^2 - 7}$.
18. Find the derivative of $\sin 2x$ from the first principle.
19. Find the equations of tangent and normal to the curve $y = x^3 + 4x^2$ at (-1, 3).
20. Find the lengths of sub-tangent and sub-normal at a point on the curve $y = b \sin \frac{x}{a}$.

SECTION - C

III. Long answer type questions .

- (i) Answer any **five** questions.
(ii) Each question carries **seven** marks.

21. Find the angles of the triangle whose sides are $x + y - 4 = 0$, $2x + y - 6 = 0$ and $5x + 3y - 15 = 0$.
22. Find the circumcenter of the triangle whose vertices are $(-2, 3)$, $(2, -1)$ and $(4, 0)$.
23. Show that the area of the triangle formed by the lines $ax^2 + 2hxy + by^2 = 0$ and $lx + my + n = 0$ is $\left| \frac{n^2 \sqrt{h^2 - ab}}{am^2 - 2hlm + bl^2} \right|$.
24. Find the angle between the lines joining the origin to the points of intersection of the curve $x^2 + 2xy + y^2 + 2x + 2y - 5 = 0$ and the line $3x - y + 1 = 0$. <https://www.telanganaboard.com>
25. Find the angle between the lines whose direction cosines satisfy the equations $l + m + n = 0$, $l^2 + m^2 - n^2 = 0$.
26. If $x = a(\cos t + t \sin t)$, $y = a(\sin t - t \cos t)$ then find $\frac{dy}{dx}$.
27. If $x^{\log y} = \log x$ then $\frac{dy}{dx} = \frac{y}{x} \left[\frac{1 - \log x \cdot \log y}{\log^2 x} \right]$.
28. If the tangent at any point on the curve $x^{2/3} + y^{2/3} = a^{2/3}$ intersects the coordinate axes in A and B, then show that the length AB is a constant.

29. Show that the curves $y^2 = 4(x + 1)$ and $y^2 = 36(9 - x)$ intersect orthogonally.
30. The profit function $P(x)$ of a company selling x items per day is given by $P(x) = (150 - x)x - 1000$. Find the number of items that the company should manufacture to get maximum profit. Also find the maximum profit.
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Total No. of Questions - **26**

Regd.

Total No. of Printed Pages - **3**

No. _____

Part - III
PHYSICS, Paper - I
(English Version)

Time : 3 Hours

Max. Marks : 60

SECTION - A

$10 \times 2 = 20$

- Note:** (i) Answer **all** Questions
 (ii) Each Question carries **two** marks
 (iii) All are very short answer type questions.

1. What is Physics?
2. How can systematic errors be minimised or eliminated ?
3. $A = \vec{i} + \vec{j}$. What is the angle between the vector and x-axis?
4. Can the coefficient of friction be greater than one?
5. Why are drops and bubbles spherical?
6. Is it necessary that a mass should be present at the centre of mass of any system?
7. What is the principle behind the carburetor of an automobile?
8. Why are spokes provided in a bicycle wheel?
9. Define mean free path.
10. State Boyle's Law and Charles' Law.

Section - B

Note: (i) Answer **six** questions.

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

(iii) All are of short answer type questions.

11. Can the velocity of an object be in a direction other than the direction of acceleration of the object ? If so , give an example.
12. 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.
13. Mention the methods used to decrease friction.
14. Distinguish between centre of mass and centre of gravity.
15. What is orbital velocity? Obtain an expression for it.
16. What is a geostationary satellite? State its uses.
17. Describe the behaviour of a wire under gradually increasing load.
18. Pendulum clocks generally go fast in winter and slow in summer. Why?
19. State and explain first law of thermodynamics.
20. Compare isothermal and an adiabatic process.
21. Define unit vector, null vector and position vector.
22. If $|\vec{a} + \vec{b}| = |\vec{a} - \vec{b}|$ prove that the angle between \vec{a} and \vec{b} is 90° .

Note: (i) Answer any **two** questions.

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

(iii) All are long answer type questions.

23. Show that the motion of a simple pendulum is simple harmonic and hence derive an equation for its time period. What is seconds pendulum?
24. State and explain Newton's law of cooling. State the conditions under which Newton's law of cooling is applicable. A body cools down from 60°C to 50°C in 5 minutes and to 40°C in another 8 minutes. Find the temperature of the surroundings.
25. 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 ms^{-1} . If the mass of each bullet is 5 gm, find the power of the machine gun.
26. State and prove law of conservation of energy in case of a freely falling body.
A pump is required to lift 600 kg of water per minute from a well 25 m deep and to eject it with a speed of 50 ms^{-1} . Calculate the power required to perform the above task.

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Total No. of Questions **26**

Total No. of Printed Pages **3**

Regd.

No.

7	8	9	10	11	12	13	14
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Part - III
CHEMISTRY, Paper - I
(English Version)

Time : 3 Hours

Max. Marks : 60

Note: Read the following instructions carefully:

- (i) Answer **all** the questions of Section - **A**, Answer ANY SIX questions in Section - **B** and answer any TWO questions in Section - **C**.
- (ii) In Section - **A**, questions from Sr. Nos. **1** to **10** are of Very Short Answer Type'. Each question carries TWO marks. Every answer may be limited to two or three sentences. Answer all these questions at one place in the same order.
- (iii) In Section - **B**, questions from Sr. Nos. **11** to **22** are of 'Short Answer Type'. Each question carries FOUR marks. Every answer may be limited to **75** words.
- (iv) In Section - **C**, questions from Sr. Nos. **23** to **26** are of 'Long Answer Type'. Each question carries EIGHT marks. Every answer may be limited to **300** words.
- (v) Draw labelled diagrams. Wherever necessary for questions in Section - **B** and **C**.

SECTION - A **$10 \times 2 = 20$** **Note :** Answer **ALL** the questions.

1. State Dalton's law of Partial pressures.
2. How many number of moles of glucose are present in 540 gms of glucose ?
3. What is Octet rule?
4. An element 'X' has atomic number 34. Give its position in the **periodic table**.
5. What is Lewis acid ? Give one example.
6. Lithium salts are mostly hydrated. Why?
7. What are the characteristic colours imparted by the II A elements?
8. What is allotropy? Give the crystalline allotropes of carbon.
9. Graphite is a good conductor – explain.
10. Write the structures of: Trichloroethanoic acid, Neopentane, p-nitro benzaldehyde.

SECTION - B **$6 \times 4 = 24$** **Note :** Answer any **SIX** questions.

11. Explain the difference between emission and absorption spectra.
12. Derive Ideal gas equation.
13. State and explain Graham's law of Diffusion.
14. A carbon compound contains 12.8% carbon, 2.1% hydrogen and 85.1% bromine. The molecular weight of the compound is 187. Calculate the molecular formula.
15. Derive the relation between K_p and K_c for the equilibrium reaction

$$N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g)$$
16. What is a conjugate acid - base pair ? Illustrate with one example.

17. Name the isotopes of hydrogen. What is the ratio of the masses of these isotopes?
18. What are electron deficient compounds? Is BCl_3 an electron deficient species? Explain.
19. Write a short note on fullerene.
20. How does acetylene react with: a. Bromine b. Hydrogen? Write the balanced equations for the above reactions. Name the products.
21. Balance the following redox reaction by ion - electron method:
 $Cr_2O_7^{2-} + SO_2(g) \rightarrow Cr^{3+}(aq) + SO_4^{2-}(aq)$ (in acidic solution)
22. State and explain the Hess's law of constant Heat summation.

2 × 8 = 1

SECTION - C

Note : Answer any **TWO** questions.

23. How are the quantum numbers n , l and m_l arrived at? Explain the significance of these quantum numbers.
24. Write an essay on s , p , d , and f block elements.
25. What do you understand by Hybridisation? Explain different types of hybridization involving s and p orbitals.
26. How do we get benzene from acetylene? Give the corresponding equation. Explain the halogenations, alkylation, acylation, nitration and sulphonation of benzene. <https://www.telanganaboard.com>

0109

A

Total No. of Questions – 16

Regd.

Total No. of Printed Pages – 4

No.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Part - II

SANSKRIT, Paper – I
(Second Language)

Time : 3 Hours]

[Max. Marks : 100

- Note :** (i) All questions should be attempted.
(ii) Question Nos. 1, 2 & 3 should be answered in the medium of instructions of the candidate.
(iii) The remaining questions should be answered in Sanskrit (Devanagari Script) only.
(iv) The bits of a question should be attempted together.

- सूचना :** (i) सर्वे प्रश्नाः समाधेयाः ।
(ii) प्रथम्, द्वितीय, तृतीय प्रश्नान् विहाय अन्ये प्रश्नाः संस्कृतभाषायामेव (देवनागरिलिप्या) समाधेयाः ।
(iii) अंशयुक्तस्य प्रश्नस्य अन्तर्गतांशाः एकत्रैव समाधेयाः ।

I. एक श्लोकं पूर्यित्वा तस्य भावं लिखत । **1 × 6 = 6**

1. अङ्गः ____ रज्यति ॥
2. परिवर्तिनि ____ समुन्नतिम् ॥
3. दुर्जनः ____ भयङ्करः ॥

II. एक निबन्धप्रश्नं समाधत । **1 × 6 = 6**

1. रामस्य वनवासं वर्णयत ।
2. नारदतुम्बुरौ उभयोः तारतम्यं कथं ज्ञातवन्तौ ?
3. रामः कः ? सः किमर्थं चित्रकूटम् अगच्छत् ? तत्र किमभवत् ?

III. एक निबन्धप्रश्नं समाधत । **1 × 6 = 6**

1. शिविचक्रवर्तिनः भूतदयां विवृणुत ।
2. दयालोः नागार्जुनस्य दानशीलताम् उपवर्णयत ।
3. वासवानलौ शिविचक्रवर्तिनं कथं परीक्षितवन्तौ ?

IV. चतुर्णी प्रश्नानां समाधानानि लिखत ।

1. अब्दुल् कलामः छात्राणां मनः विकासयितुं कं कं अशिक्षयत ?
2. पेर्टिका कैः पूरिता आसीत् ?
3. हीरालाले परिवर्तने आगते सः किमकरोत् ?
4. निपुणः चेत् वणिक किं कृत्वा सुखी भवति ?
5. हीरालालस्य माता कति रोटिकाः निर्मितवती ?
6. वणिजः पत्नी का ? तयोः पुत्रस्य नाम किम् ?
7. एकदा नीलाम्बा कां दृष्टवती ?
8. अब्दुल् कलामः कैः पुरस्कारैः सम्मानितः ?

V. द्वयोः सप्तन्दर्भं व्याख्यां लिखत ।

2 × 3 = 6

1. पूर्वं दत्तवरा देवी वरमेनमयाचत ।
2. ततो विहाय मां गत्वा वैकुण्ठं पृच्छतं युवाम् ।
3. रक्षसां निहतान्यासन् सहस्राणि चतुर्दश ।
4. ज्ञातं ते खलु मुख्योऽयं भक्तेषु मम नारदः ।
5. नियुज्यमानो राज्याय नैच्छद्राज्यं महाबलः ।

VI. द्वयोः सप्तन्दर्भं व्याख्यां लिखत ।

2 × 3 = 6

1. “आयुष्मन्, यौवराज्यंप्राप्य किं मृषा हृष्यति” ?
2. राजन् बुभुक्षा मामत्यन्तं पीडयति ।
3. सत्यं दयालुरेवासि ।
4. किं त्वं साम्रतं प्रजापतिं जेतुमुद्यतः ?
5. शरणागतस्य परिपालनमेव राजः प्रथमो धर्मः ।

VII. द्वौ लघुप्रश्नो समाधत्त ।

2 × 3 = 6

1. मौनं केषां कुत्र च विभुषणम् ?
2. भरतः रामं किमित वचोऽब्रवीत् ?
3. नारद-तुम्भुरौ परस्परं निन्दितौ किं अकुरुताम् ?
4. कस्य जिह्वा धन्या ?
5. किं कुर्वन् पुत्रः भवति ?

VIII. द्वौ लघुप्रश्नौ समाधत्तं । **$2 \times 3 = 6$**

1. मन्त्री नागार्जुनः कीदृशः ?
2. टिंडिभदम्पती कुत्र प्रतिवसतः स्मः ?
3. दिव्यरूपधरौ श्येनकपोतौ कौ ?
4. जगदीशः कस्मिन् मनः अधात् ?
5. नागार्जुनं प्रति इन्द्रः कौ प्रेषितवान् ?

IX. एकेन पदेन समाधत्तं । **$5 \times 1 = 5$**

1. कः पशुः भवति ?
2. भरतः कुत्र राज्यमकरोत् ?
3. सुरगायनौ कौ ?
4. प्राणिनां परं सुखदा का ?
5. गुहः कः ?

X. एकेन पदेन समाधत्तं । **$5 \times 1 = 5$**

1. चिरायु भूपतेः मन्त्री कः ?
2. वैनतेयः कः ?
3. श्येनः कम् अन्वधावत् ?
4. जगदीशः किं शाखं प्रति आकृष्टः अभवत् ?
5. चिरायुः कं यौवराज्ये अभिषिक्तवान् ?

XI. संवित्परीक्षा – अधोनिर्दिष्ट कथां पठित्वा प्रश्नान् समाधत्तं । **$5 \times 1 = 5$**

पुरा कस्यचन वणिजः गृहे एकः वृषभः गर्दभः च आस्ताम् । एकदा सः गर्दभस्य पृष्ठे तूलं, वृषभपृष्ठे लवणगोणीं च निधाय विपणिं प्रति अगच्छत् । मार्गे काचित् नदी आसीत् । तां नदीं तरन् वृषभः भाराक्रान्तः सन् जले अपतत् । प्रवाहेण क्लिन्नं लवणम् अद्रवत् । तेन वृषभस्य भारः न्यूनः अभवत् । वृषभं दृष्ट्वा गर्दभः अपि स्वयं जले अपतत् । जले क्लिन्नस्य तूलस्य भारः द्विगुणः अजायत । वणिक् अपि गर्दभम् अताडयत् । <https://www.telanganaboard.com>

नीति : अविचार्य परानुकरणं सन्तापकारणं भवति ।

1. वणिक् एकदा कुत्र अगच्छत् ?
2. वृषभः भाराक्रान्तः सन् किम् अकरोत् ?
3. वृषभं दृष्ट्वा गर्दधः किम् अकरोत् ?
4. कस्य भारः द्विगुणः अजायत ?
5. अस्याः कथायाः का नीतिः ?

XII. चत्वारि सन्धिनामनिर्देशसहितं विघटयत ।

4 × 2 = 8

- | | | | |
|--------------|-------------|---------------|---------------|
| 1. विद्यालयः | 2. परमेशः | 3. तथैव | 4. प्रत्यहम् |
| 5. गायकः | 6. केऽपि | 7. भानोऽत्र | 8. तावत्र |
| 9. स्वागतम् | 10. महौषधिः | 11. गुणोत्तमः | 12. गुरुपदेशः |

XIII. चत्वारि सन्धिनामनिर्देशसहितं सन्धत ।

4 × 2 = 8

- | | | |
|----------------|------------------|--------------------|
| 1. गज + आननः | 2. नर + इन्द्रः | 3. परम + ऐश्वर्यम् |
| 4. देवी + उवाच | 5. हरे + ए | 6. गते + अपि |
| 7. गावौ + एते | 8. गुरो + अव | 9. धातृ + अंशः |
| 10. मम + एव | 11. राज + क्रषि: | 12. कवि + इन्द्रः |

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

2 × 4 = 8

- | | | | |
|--------|--------|--------|------------|
| 1. राम | 2. मति | 3. मधु | 4. तद (पु) |
|--------|--------|--------|------------|

XV. द्वयोः धात्वोः निर्दिष्टानि लकाररूपाणि लिखत ।

2 × 3 = 6

- | | | | |
|---------|------------|----------|---------------|
| 1. भवति | 2. अगच्छत् | 3. पठेत् | 4. वन्दिष्यते |
|---------|------------|----------|---------------|

XVI. संस्कृतभाषया अनुवदत ।

5 × 1 = 5

1. Let your mother be your God.
2. India is the land of work.
3. Education gives humility.
4. Boy studies Sanskrit.
5. I am going to college.

0101



Total No. of Questions **20**

Total No. of Printed Pages **8**

Regd.
No.

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ENGLISH

Paper - I

Time : 3 Hours

Max. Marks : 100

Section - A

1. Annotate ANY TWO of the following in about 100 words each.

$2 \times 4 = 8$

- (a) Such was the Indian concept of hospitality once upon a time.
- (b) The two simplest and commonest words in any language are 'yes' and 'no'.
- (c) Individual liberty would have become social anarchy.
- (d) Saina's meteoric rise to success was not without its share of compromises.

2. Annotate ANY TWO of the following in about 100 words each.

$2 \times 4 = 8$

- (a) The glimmering music of your spears,
The laughter of your royal brides.
- (b) I don't want my children to see the Earth die,
- (c) thy golden chariot appeared in the distance like a gorgeous dream
- (d) He gives his harness bells a shake
To ask if there is some mistake.

3. Answer ANY TWO of the following questions in about 100 words each.

$2 \times 4 = 8$

- (a) Explain with examples what the rule of the road means.

- (b) Narrate two memories of Kalam, related to eating.
- (c) What are the suggestions offered by the writer to foreign students and visitors to England?
- (d) Why was the Philippines Tournament in 2006 a memorable one for Saina Nehwal?
4. Answer ANY TWO of the following questions in about 100 words
 $2 \times 4 = 8$
- (a) Describe the feelings of the poet when she sees the Royal Tombs of Golconda.
- (b) List the factors that result in climate change. Suggest steps to solve this serious problem.
- (c) Why did the beggar weep bitterly that night?
- (d) What do you understand by the lines 'But I have promises to keep, And miles to go before I sleep.'?

5. Answer ANY TWO of the following questions in about 100 words
 $2 \times 4 = 8$
- (a) Write in a paragraph Suren's experiences on his way to and at Vrindavan's house.
- (b) Why was Gopal upset on being told by the director that he had to enact a dying scene?
- (c) Narrate the events that led the little girl and her mother to wait in the rain for a taxi.
- (d) What did Suren find in Sudhir's hands? Describe it in detail.

SECTION - B

6. Read the following passage carefully and answer ANY FOUR questions given after it.
 $4 \times 1 = 4$

The room we were looking into was full of people and cigarette smoke, and our little man was in the middle of it all. He was now without his hat and coat, and he was edging his way through the crowd towards the bar. When he reached it, he placed both hands on the bar itself and spoke to the barman. I saw his lips moving as he gave his order.

The barman turned away from him for a few seconds and came back with a smallish tumbler filled to the brim with light brown liquid. The little man placed a pound note on the counter.

- (i) What kind of room did the old man enter?
 - (ii) Before he entered the room the man had his coat and hat on. Write **true** or **false**.
 - (iii) With whom did the old man speak?
 - (iv) What did the narrator see as old man was giving his order?
-
- (v) What was the tumbler filled with?
 - (vi) What did the man place on the counter?
7. Read the following **passage** carefully and answer **ANY FOUR** questions given after it. <https://www.telanganaboard.com> $4 \times 1 = 4$

Malavath Poorna, a young girl from Nizamabad district, enjoys the distinction of being the youngest woman to climb Mount Everest, the highest peak in the world. She was less than fourteen years old when she accomplished this feat on 25th May 2014. Her feat is all the more remarkable as she is a tribal girl belonging to a humble background. Her parents are farm labourers. Poorna was accompanied on her expedition by S. Anand Kumar, a 16 year old boy from Khammam district. Poorna and Anand are students of the Telangana Social Welfare

Residential Education Society. The youngsters carried with them photographs of B.R. Ambedkar and S.R. Sankaran, a former I.A.S. officer who devoted his life to the upliftment of the marginalized sections of society.

Incidentally, the fourth week of May 2014 marked the 61st anniversary of the conquest of Mount Everest. It was on 29th May 1953 that Edmund Hillary from New Zealand and Tenzing Norgay from Nepal — the first men to climb this highest peak — reached the summit of Everest. Since then more than 4000 people have reached the peak.

Answer the following **questions**.

- (i) How did Poorna make news on 25th May 2014?
- (ii) Who accompanied Poorna on the expedition?
- (iii) Where were the two youngsters studying at that time?
- (iv) What did they carry with them to the top of the world?
- (v) Who climbed Mount Everest for the first time and when?
- (vi) More than 4000 people have reached the peak of mount Everest. Write **true** or **false**.

SECTION - C

[**NOTE:** ANSWERS to the questions in **Section - C** must be written at **one place** in the **same Serial Order.**]

3. Fill in **ANY EIGHT** blanks with **a, an** or **the**. $8 \times \frac{1}{2} = 4$

- (a) I interviewed MP.
- (b) Saina is first Indian won many badminton tournaments.
- (c) I have studied in government school.
- (d) Srilanka is island.

- (e) The committe was established by British Broadcasting Corporation.
- (f) ATM is useful machine.
- (g) Abdul Kalam is extraordinary man.
- (h) I reached home in evening.
- (i) Mary is European.
- (j) King Solomon is wisest king.

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

- (a) My friend lives Delhi.
- (b) Suresh goes to college foot.
- (c) The train started exactly 6 o'clock.
- (d) Aruna is senior me.

- (e) Walking is good health.
- (f) The poem was written John Keats.
- (g) We cut fruits a knife.
- (h) Abraham Lincoln came a poor family.
- (i) The five thieves shared the stolen money themselves.
- (j) Arif poured water the glass.

10. Fill in **ANY FOUR** blanks with suitable **verbs** given in brackets.

$$4 \times 1 = 4$$

- (a) He (practise) yoga daily.
- (b) When I went to the station the train (leave).
- (c) Listen! Somebody (scream).
- (d) I (conduct) a quiz competition tomorrow.
- (e) The custard apple (be) a tasty and healthy fruit.
- (f) We (live) in Hyderabad since 2000.

11. Rewrite **ANY FOUR** sentences as directed.

$$4 \times 1 = 4$$

- (i) Floods cause a lot of damage. (Change into passive voice)
- (ii) The Tajmahal is one of the most beautiful monuments in the world. (Change into comparative degree)
- (iii) The giraffe is taller than the elephant. (Change into positive degree)
- (iv) "I am a pure vegetarian," Gandhi said. (Change into indirect speech.)
- (v) A classmate said to me, "Is your father a businessman?" (Change into indirect speech.)
- (vi) They are not ready. (Add a question tag.)

12. Rewrite **ANY FOUR** of the following sentences **correcting the errors**.

$$4 \times 1 = 4$$

- i) Gandhi is more truthful than any political leader.
- ii) Suma is an popular anchor.

- iii) There are five womans in the team.
- iv) I prefer fruits than sweets.
- v) The collector discussed about the problems of the villagers.
- vi) It is raining since yesterday.

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

- (i) p - - ceful (ii) kit - - en (iii) l - - rels
- (iv) curt - - led (v) a - - ommodation (vi) enc - - rage
- (vii) bi - - erly (viii) lau - - ter (ix) p - - ple
- (x) br - - f

14. Identify the **silent consonant(s)** in **ANY EIGHT** of the following words.
 $8 \times \frac{1}{2} = 4$

- (i) climb (ii) design (iii) honour (iv) knight
- (v) calm (vi) hymn (vii) psychology (viii) isle
- (ix) tsunami (x) write

15. Identify the **parts of speech** of **ANY EIGHT** of the following underlined words.
 $8 \times \frac{1}{2} = 4$

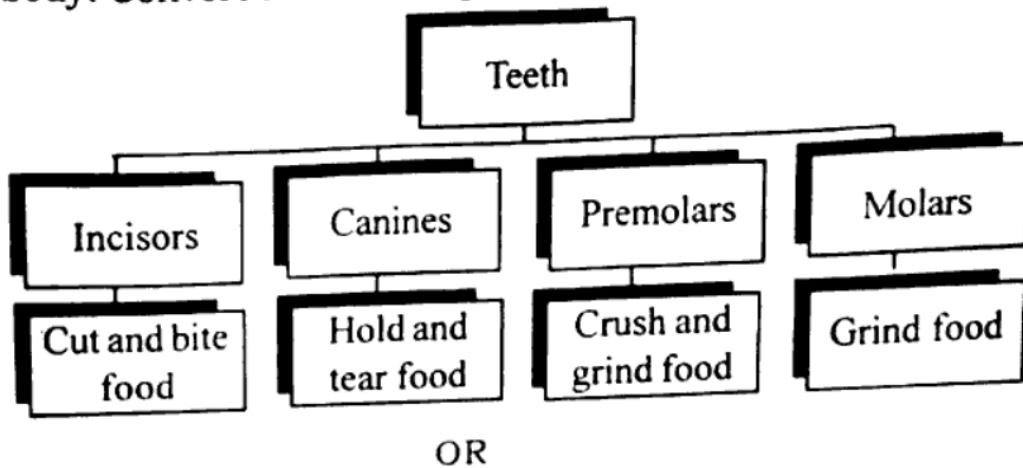
She is the second Indian to achieve such a ranking, after Prakash Padukone in 1980, and the first Indian woman to do so. Though a bright student, Saina was unable to complete Intermediate as the gruelling schedule left her with little time to attend classes. Ah! It is raining heavily.

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

- | | |
|--------------------|----------------------------------|
| (i) poignantly | (a) swift and spectacular. |
| (ii) down-to-earth | (b) clearly. |
| (iii) meteoric | (c) in a deeply touching manner. |
| (iv) distinctly | (d) serious danger. |
| (v) rehearsals | (e) practical, sensible. |

- | | |
|---------------------|--------------------------------------|
| (vi) peril | (f) strange or unusual. |
| (vii) queer | (g) trial performances of a play. |
| (viii) intelligible | (h) the world, the earth. |
| (ix) planet | (i) complete disorder and confusion. |
| (x) chaos | (j) easily understood. |

17. (a) The tree diagram is the representation of types of teeth in human body. Convert the tree diagram into a paragraph. $1 \times 4 = 4$



- (b) Read the following paragraph and convert it into a pie chart.

In this paragraph five subjects have been taken into consideration—Economics, Civics, Commerce, English and 2nd Language. Students who like Economics form the largest group. A quarter of the students of the class i.e 25% expressed preference for this subject. English and Commerce are liked by an equal number of students. 20% of the students like English and the same percentage i.e 20% of the students like Commerce. Next in popularity is Civics, liked by 18% of the class. Finally, trailing closely behind Civics, comes 2nd Language, which is the favourite subject of 17% of the students.

18. Write **ANY FOUR** of the following **transcriptions** in spelling (Normal words). $4 \times 1 = 4$

i) /'mɔ:(r)tufaɪd/ ii) /dʒest/ iii) /ɪn'dɔ:(r)smentz/
 iv) /'redʒimən/ v) /'tɪrəni/ vi) /dɪ'strɪktli/

19. Circle **ANY FOUR** of the words that sound **different** with regard to the **sounds** of the bold letters. $4 \times 1 = 4$

- | | | |
|------------|---------|---------|
| i) baggage | luggage | suggest |
| ii) finger | engine | anger |
| iii) push | pull | pure |
| iv) earn | earth | each |
| v) rose | chose | lose |
| vi) week | meek | deer |

20. Mention the number of **syllables** in **ANY FOUR** of the following words.

$$4 \times 1 = 4$$

- | | | |
|---------------|--------------|----------------|
| i) fate | ii) correct | iii) hundred |
| iv) passenger | v) imitation | vi) reasonable |
-

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