Name

Roll No

1۔ ہر سوال کے سامنے چار دائرے بنے ہوئے ہیں، صرف صحیح جواب کا دائرہ بھر دیں۔

2۔ دائروں کو شیڈ (بھرنے) کے لئے نیلے یا کالے رنگ کا مارکر استعمال کریں۔

3۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہو گا۔

Time Allowed: 20 Minutes SECTION – A Marks : 15

1	$(2p - q)^3 =$	● $8p^3 - q^3 - 6pq(2p - q)$	○ $8p^3 + q^3 + 6pq(2p + q)$	○ $8p^3 - q^3 + 6pq(2p - q)$	○ $8p^3 + q^3 - 6pq(2p + q)$
2	The factorization of $2lx + 2mx + 2nx$ is:	○ $(l + m + n)$	○ $2(l + m + n)$	● $2x(l + m + n)$	○ $m(2l + 2x + 2n)$
3	If M and N are two polynomials and their HCF and LCM are respectively H and L then M =	● $\frac{H \times L}{N}$	○ $\frac{N}{H \times L}$	○ $\frac{N}{H}$	○ $\frac{N}{L}$
4	The solution of linear equation $2t - 3 = t - 1$ is:	○ -2	○ $\frac{4}{3}$	● 2	○ $\frac{3}{4}$
5	If $U = \{4,5\}$ and $V = \{7,6\}$; then which of the given is ordered pair of $U \times V$?	○ $\{(4,7), (6,5)\}$	○ $\{(6,5)\}$	● $\{(4,7), (5,6)\}$	○ $\{(7,4)\}$
6	$P^{\frac{2}{9}}$ can be expressed in radical form as:	○ $\sqrt[2]{P}$	○ $\sqrt[9]{P}$	● $\sqrt[9]{P^2}$	○ $\sqrt[9]{P^9}$
7	If $z = -3i + 13$ then conjugate of z is:	○ $-3i - 13$	○ $3i - 13$	● $3i + 13$	○ $-3i$
8	9.62×10^{-3} can be written in standard form as:	○ 962000.0	○ 0.000962	● 0.00962	○ 0.0000692
9	Which of the given is the base of common logarithm?	○ m	○ e	● 10	○ f
10	Which of the given is a polynomial? 10.645	○ $x^2 + \frac{1}{x^2} + 2$ (where $x \neq 0$)	○ $x^3 + x^{-3} + 3$	● $x^4 + x^3 + x^2 + 1$	○ $x^5 + x^3 + \frac{1}{x^2} + 1$ (where $x \neq 0$)
11	Which of the given elements represent one of the columns of the matrix $\begin{bmatrix} 12 & 6 & 3 \\ 7 & -5 & 6 \\ 11 & 7 & 9 \end{bmatrix}$	● 6,–5,7	○ 7,–5,6	○ 12,–5,9	○ 12,6,3
12	Which of the given two matrices are equal? $Q = \begin{bmatrix} 4 & 8 \\ 11 & 7 \end{bmatrix}$ $R = \begin{bmatrix} 4 & 8 \\ 7+3 & 3+3 \end{bmatrix}$ $S = \begin{bmatrix} 4 & 8 \\ 8+3 & 4+3 \end{bmatrix}$ $T = \begin{bmatrix} 6+5 & 2+3 \\ 1+3 & 1+5 \end{bmatrix}$	○ S and T	○ R and S	● S and Q	○ R and Q
13	If $A = \begin{bmatrix} 2 & 3 \\ 6 & 4 \end{bmatrix}$ then $A^t =$	○ $\begin{bmatrix} -2 & -6 \\ -3 & -4 \end{bmatrix}$	● $\begin{bmatrix} 2 & 6 \\ 3 & 4 \end{bmatrix}$	○ $\begin{bmatrix} 4 & 3 \\ 6 & 2 \end{bmatrix}$	○ $\begin{bmatrix} 2 & 6 \\ 4 & 2 \end{bmatrix}$
14	If $P = \begin{bmatrix} 1 & 3 \\ 4 & 5 \end{bmatrix}$ and $Q = \begin{bmatrix} 2 & -1 \\ 6 & 13 \end{bmatrix}$ then $P - Q$ is equal to:	● $\begin{bmatrix} -1 & 4 \\ -2 & -8 \end{bmatrix}$	○ $\begin{bmatrix} 3 & 2 \\ 10 & -8 \end{bmatrix}$	○ $\begin{bmatrix} 2 & 3 \\ 24 & 65 \end{bmatrix}$	○ $\begin{bmatrix} -1 & 4 \\ -2 & -8 \end{bmatrix}$
15	The rational number $\frac{2}{3}$ can be expressed as:	● 0.66666667	○ 1.6666	○ 0.61661	○ 16.66667