

Q.1: Encircle the correct answer.

- The sum of roots of equation  $2x^2 - 3x - 5 = 0$  is:  
(a)  $-\frac{3}{2}$  (b)  $-\frac{3}{2}$  ✓ (c)  $\frac{3}{2}$  (d)  $-\frac{3}{3}$
- If the discriminant of an equation is zero then the roots will be:  
(a) imaginary (b) real (c) equal ✓ (d) irrational
- The nth term of an A.P is whose 1st term 'a' and common difference 'd' is:  
(a)  $2a + (n+1)d$  (b)  $a + (n+1)d$  ✓ (c)  $a + (n-1)d$  (d)  $2a + (n-1)d$
- The G.M between a and b is:  
(a)  $\frac{a+b}{2}$  (b)  $\sqrt{ab}$  ✓ (c)  $ab$  (d)  $\frac{2ab}{a+b}$
- Arithmetic mean between  $x - \sqrt{3}$  and  $x + \sqrt{3}$  is:  
(a)  $x$  ✓ (b)  $2x$  (c)  $3$  (d)  $-3$
- The general term in the expansion of  $(a+b)^n$  are:  
(a)  $(n_r)a^n b^r$  ✓ (b)  $(n_r)a^r b^n$  (c)  $(n_r)a^n b^{n-r}$  (d)  $(n_r)a^{n-r} b^r$
- The number of terms in the expansion of  $(a+b)^{12}$  are:  
(a) 12 (b) 13 (c) 14 ✓ (d) 15
- The number of Partial fraction of  $\frac{x+2}{(x-1)(x+1)(x^2-1)}$  are:  
(a) 2 (b) 3 (c) 4 ✓ (d) 5
- One degree is equal to:  
(a)  $\pi$  (b)  $\frac{\pi}{180}$  rad ✓ (c)  $\frac{180}{\pi}$  rad (d)  $\frac{\pi}{360}$
- If  $\cos \theta < 0$  and  $\sin \theta < 0$ , then the angle lies in the quadrant:  
(a) 1<sup>st</sup> (b) 2<sup>nd</sup> (c) 3<sup>rd</sup> ✓ (d) 4<sup>th</sup>
- $120^\circ$  is equal to:  
(a)  $\frac{2\pi}{3}$  (b)  $\frac{2\pi}{6}$  ✓ (c)  $\frac{3\pi}{4}$  (d)  $\frac{\pi}{4}$
- $\tan^2 \theta - \sec^2 \theta =$   
(a) 1 (b) 0 (c) -1 ✓ (d) none of these
- $\cos \left( \frac{\pi}{2} + \theta \right)$  is equal to:  
(a)  $-\cos \theta$  (b)  $\sin \theta$  (c)  $-\sin \theta$  ✓ (d)  $\cos \theta$
- $2\sin \alpha \cos \alpha$  is equal to:  
(a)  $\cos 2\alpha$  (b)  $\tan 2\alpha$  (c)  $\sin 2\alpha$  ✓ (d) None of these
- In any  $\triangle ABC$ , by law of  $b^2 + c^2 - 2bc \cos \alpha$  is equal to:  
(a)  $b^2$  (b)  $a^2$  ✓ (c)  $c^2$  (d) None of these

Answers

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
b	c	c	b	a	a	c	c	b	c	b	c	c	c	b

Q.1: Encircle the correct answer.

- Figures of the same shape and form but of different size are called:  
(a) similar ✓ (b) congruent (c) coplanar (d) non-coplanar
- Area of a rhombus with diagonals  $d_1$  and  $d_2$  is:  
(a)  $\frac{d_1 + d_2}{2}$  (b)  $\frac{d_1 \times d_2}{2}$  ✓ (c)  $\frac{d_1}{2} \times \frac{d_2}{2}$  (d)  $\frac{2}{d_1 \times d_2}$
- A regular polygon having infinite number of angles is:  
(a) hexagon (b) octagon (c) circle ✓ (d) decagon
- The circumference of a circle of radius 3.5cm is:  
(a) 20cm (b) 26cm (c) 28cm (d) 22cm ✓
- A rectangular prism whose length, breadth and height are equal is a:  
(a) cube ✓ (b) square (c) cone (d) cylinder
- The volume of a circular base cylinder is:  
(a)  $2\pi rh^2$  (b)  $\pi r^2 h$  ✓ (c)  $2\pi rh$  (d)  $\pi d^2 h$
- If  $l$  is the height and 'r' is the radius of inscribed circle as the base of a pyramid, then its height is:  
(a)  $\sqrt{l^2 + r^2}$  (b)  $\sqrt{r^2 + h^2}$  (c)  $\sqrt{l^2 - r^2}$  ✓ (d)  $\pi rl$
- The curved surface area of a cone of height 'h' and base radius 'r' is:  
(a)  $\pi r^2 l$  (b)  $2\pi rl$  (c)  $\pi r^2$  (d)  $\pi rl$  ✓
- The volume of a sphere of diameter D is:  
(a)  $\frac{4}{3} \pi r^3$  (b)  $\frac{\pi}{4} D^3$  (c)  $4\pi D^3$  (d)  $\frac{\pi}{6} D^3$
- If  $\vec{a} \cdot \vec{b} = 0$ , then  $\vec{a}$  and  $\vec{b}$  will be:  
(a) parallel (b) unparallel (c) perpendicular ✓ (d) collinear
- The magnitude of  $2\vec{i} - 2\vec{j} - \vec{k}$  will be:  
(a) 4 (b) 3 ✓ (c) 2 (d) 1
- If  $\vec{i}$  and  $\vec{j}$  are unit vectors along x-axis and y-axis, then  $|\vec{i} \cdot \vec{j}|$  is equal to:  
(a) 0 ✓ (b) 1 (c) -1 (d) 2
- The value of  $\begin{vmatrix} 6 & 1 \\ -7 & 1 \end{vmatrix}$  is equal to:  
(a) -11 (b) -25 (c) 11 (d) 25 ✓
- The order of matrix  $\begin{bmatrix} -1 \\ 5 \\ 7 \end{bmatrix}$  is:  
(a)  $1 \times 1$  (b)  $3 \times 3$  (c)  $3 \times 1$  ✓ (d)  $1 \times 3$
- The addition of two matrices A and B is commutative means:  
(a)  $a + B < B + A$  (b)  $A + B = B + A$  ✓ (c)  $A - B < B - A$  (d)  $A - B = B - A$

Answers

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
a	b	c	d	b	b	c	d	a	c	b	a	d	c	d

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upper thorax manubrium of sternum the first pair of ribs and the body of the vertebra t1

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