

Q.1: Encircle the correct answer.

- 1- 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) $-\frac{3}{3}$
- 2- If the discriminant of an equation is zero then the roots will be:
 (a) imaginary (b) real (c) equal ✓ (d) irrational
- 3- 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) $2a + (n - 1)d$
- 4- The G.M between a and b is:
 (a) $\frac{a+b}{2}$ (b) \sqrt{ab} ✓ (c) ab (d) $\frac{2ab}{a+b}$
- 5- Arithmetic mean between $x - \sqrt{3}$ and $x + \sqrt{3}$ is:
 (a) x ✓ (b) $2x$ (c) 3 (d) -3
- 6- 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) $(n_r)a^{n-r} b^r$
- 7- The number of terms in the expansion of $(a + b)^{12}$ are:
 (a) 12 (b) 13 (c) 14 ✓ (d) 15
- 8- 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
- 9- One degree is equal to:
 (a) π (b) $\frac{\pi}{180}$ rad ✓ (c) $\frac{180}{\pi}$ rad (d) $\frac{\pi}{360}$
- 10- If $\cos \theta < 0$ and $\sin \theta < 0$, then the angle lies in the quadrant:
 (a) 1st (b) 2nd (c) 3rd ✓ (d) 4th
- 11- 120° is equal to:
 (a) $\frac{2\pi}{3}$ (b) $\frac{2\pi}{6}$ ✓ (c) $\frac{3\pi}{4}$ (d) $\frac{\pi}{4}$

- 12- $\tan^2 \theta - \sec^2 \theta =$
 (a) 1 (b) 0 (c) -1 ✓ (d) none of these
- 13- $\cos \left(\frac{\pi}{2} + \theta \right)$ is equal to:
 (a) $-\cos \theta$ (b) $\sin \theta$ (c) $-\sin \theta$ ✓ (d) $\cos \theta$
- 14- $2\sin \alpha \cos \alpha$ is equal to:
 (a) $\cos 2\alpha$ (b) $\tan 2\alpha$ (c) $\sin 2\alpha$ ✓ (d) None of these
- 15- 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.

- 1- Figures of the same shape and form but of different size are called:
 (a) similar ✓ (b) congruent (c) coplanar (d) non-coplanar
- 2- 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) $\frac{2}{d_1 \times d_2}$
- 3- A regular polygon having infinite number of angles is:
 (a) hexagon (b) octagon (c) circle ✓ (d) decagon
- 4- The circumference of a circle of radius 3.5cm is:
 (a) 20cm (b) 26cm (c) 28cm (d) 22cm ✓
- 5- A rectangular prism whose length, breadth and height are equal is a:
 (a) cube ✓ (b) square (c) cone (d) cylinder
- 6- The volume of a circular base cylinder is:
 (a) $2\pi r h^2$ (b) $\pi r^2 h$ ✓ (c) $2\pi r h$ (d) $\pi d^2 h$
- 7- 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) $\sqrt{l^2 - r^2}$ ✓ (c) $\sqrt{r^2 - l^2}$ (d) $\pi r l$
- 8- The curved surface area of a cone of height 'h' and base radius 'r' is:
 (a) $\pi r l$ (b) $2\pi r l$ (c) πr^2 (d) $\pi r l$ ✓
- 9- 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) $\frac{\pi}{6} D^3$ ✓
- 10- If $\vec{a} \cdot \vec{b} = 0$, then \vec{a} and \vec{b} will be:
 (a) parallel (b) unparallel (c) perpendicular ✓ (d) collinear
- 11- The magnitude of $2\vec{i} - 2\vec{j} - \vec{k}$ will be:
 (a) 4 (b) 3 ✓ (c) 2 (d) 1
- 12- 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
- 13- The value of $\begin{vmatrix} 6 & 1 \\ -7 & 1 \end{vmatrix}$ is equal to:
 (a) -11 (b) -25 (c) 11 (d) 25 ✓
- 14- The order of matrix $\begin{bmatrix} -1 \\ 5 \\ 7 \end{bmatrix}$ is:
 (a) 1×1 (b) 3×3 (c) 3×1 ✓ (d) 1×3
- 15- 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

Mechanical Math 113 1st Year Past Papers

Ying-Ying Zheng



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