DAE / IA – 2011/3
Math 113 Applied Mathematics – I (1st Year)
Paper – A (Part – A)

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) $-\frac{3}{2}$

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) $\pm\sqrt{ab}$ ✓ (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) $(n_r)a^{n-r}b^r$ ✓ (b) $(n_r)a^rb^n$ (c) $(n_r)a^nb^{n-r}$ (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 Cosθ < 0 and sinθ < 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) –Cosθ (b) Sinθ (c) –Sinθ ✓ (d) Cosθ

14- **2sin ∝ Cos ∝ is equal to:**
(a) Cos 2 ∝ (b) Tan 2 ∝ (c) Sin 2 ∝ ✓ (d) None of these

15- **In any ΔABC, by law of $b^2 + c^2 - 2bc$ Cos ∝ 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	c	c	b	c	c	b	c	c	c	b

DAE / IA – 2011/4
Math 113 Applied Mathematics – I
Paper – B (Part – A)

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) $\frac{d_1-d_2}{2}$ (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- Th volume of a circular base cylinder is:
(a) $2\pi rh^2$ (b) πr^2h ✓ (c) $2\pi rh$ (d) πd^2h

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) $\sqrt{\ell^2 + r^2}$ (b) $\sqrt{r^2 + h^2}$ (c) $\sqrt{\ell^2 - r^2}$ ✓ (d) $\pi r\ell$

8- The curved surface area of a cone of height 'h' and base radius 'r' is:
(a) $\pi r^2\ell$ (b) $2\pi r\ell$ (c) $\pi r\ell^2$ (d) $\pi r\ell$ ✓

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 $\vec{a}.\vec{b} = 0$, 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 $\vec{i}.\vec{j}$ is equal to:
(a) 0 ✓ (b) 1 (c) –1 (d) 2

13- The value of $\begin{vmatrix} 6 & 1 \\ -7 & -3 \end{vmatrix}$ is equal to:
(a) –11 (b) –25 (c) 11 (d) 25 ✓

14- The order of matrix $\begin{vmatrix} -1 \\ 5 \\ 7 \end{vmatrix}$ is:
(a) 1 × 1 (b) 3 × 3 (c) 3 × 1 ✓ (d) 1 × 3

15- The addition of two m atrices 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

Suvanjan Bhattacharyya,Ali Cemal Benim

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