

TEST-11

MULTIPLE CHOICE TYPE QUESTIONS

For 2025 Exams - Mathematics (041) - Class 11

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



☑ Select the correct option in the followings. Each question carries 1 mark.

01. Let $P(3, 4, 5)$. Then the foot of perpendicular drawn from point P on XY-plane is at
(a) $(3, 4, 0)$ (b) $(3, 0, 4)$ (c) $(0, 4, 5)$ (d) $(3, 0, 5)$
02. Let $P(3, 4, 5)$. Then the foot of perpendicular drawn from point P on YZ-plane is at
(a) $(3, 4, 0)$ (b) $(3, 0, 4)$ (c) $(0, 4, 5)$ (d) $(3, 0, 5)$
03. Let $P(3, 4, 5)$. Then the image of point P in XY-plane is at
(a) $(3, -4, 5)$ (b) $(3, 4, -5)$ (c) $(-3, 4, 5)$ (d) $(3, -4, -5)$
04. Let $P(3, 4, 5)$. Then the image of point P in ZOX-plane is at
(a) $(3, -4, 5)$ (b) $(3, 4, -5)$ (c) $(-3, 4, 5)$ (d) $(3, -4, -5)$
05. The coordinates of perpendicular drawn from point $A(1, 2, 3)$ on x-axis are
(a) $(1, 2, 0)$ (b) $(0, 2, 0)$ (c) $(-1, 2, 3)$ (d) $(1, 0, 0)$
06. The distance of the point $(2, 3, 1)$ from the point $(-1, 1, 2)$ is
(a) 14 (b) $\sqrt{14}$ (c) $\sqrt{41}$ (d) $\sqrt{21}$
07. The distance of the point (α, β, γ) from x-axis is
(a) $\sqrt{\beta^2 + \gamma^2}$ (b) $\sqrt{\alpha^2 + \beta^2}$ (c) $\sqrt{\gamma^2 + \alpha^2}$ (d) $\sqrt{\alpha^2 + \beta^2 + \gamma^2}$
08. The distance of the point $(a, 0, 1)$, $a > 0$, from the point $(0, 1, 2)$ is $\sqrt{27}$. Then $a =$
(a) ± 5 (b) -5 (c) 5 (d) 0
09. The distance of $(\sqrt{2}, -2, -\sqrt{3})$ from the origin is
(a) 3 (b) $\sqrt{3}$ (c) $\sqrt{5}$ (d) 9
10. The point $(-1, -6, 7)$ lies in
(a) III octant ($OX'Y'Z$) (b) IV octant ($OXY'Z$)
(c) I octant ($OXYZ$) (d) None of these
11. Distance of the point $P(2, 1, 4)$ from YZ-plane is
(a) 1 (b) 2 (c) 3 (d) 4
12. Which of the following point (s) on the x-axis is/are at a distance $3\sqrt{5}$ units from $A(-1, 4, 2)$?
(a) $(4, 0, 0)$, $(-6, 0, 0)$ (b) $(-4, 0, 0)$, $(6, 0, 0)$
(c) $(-4, 0, 0)$, $(-6, 0, 0)$ (d) $(4, 0, 0)$, $(6, 0, 0)$

Question numbers 13 to 15 are Assertion and Reason based questions. Two statements are given, one labelled **Assertion (A)** and the other labelled **Reason (R)**. Select the correct answer from the codes (a), (b), (c) and (d) as given below.

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
 - (b) Both Assertion (A) and Reason (R) are true and Reason (R) is **not** the correct explanation of Assertion (A).
 - (c) Assertion (A) is true but Reason (R) is false.
 - (d) Assertion (A) is false but Reason (R) is true.
13. **Assertion (A)** : If $x^2 + y^2 = 1$, then the point $(x, y, 1 - x^2 - y^2)$ is at a distance of 1 unit from the origin $(0, 0, 0)$.
- Reason (R)** : The distance between the points $P(x_1, y_1, z_1)$ and $Q(x_2, y_2, z_2)$ is given by the expression $PQ = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$.

14. **Assertion (A) :** The x-axis is the intersection of yz and zx planes.
Reason (R) : The locus of a point for which $y = 0$, $z = 0$ is x-axis.
15. **Assertion (A) :** Point $(-1, -1, 1)$ is at a distance of $\sqrt{3}$ units from the origin.
Reason (R) : The three coordinate planes divide the space into eight parts.

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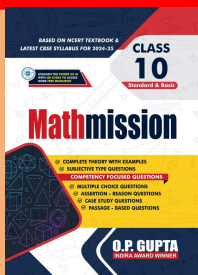
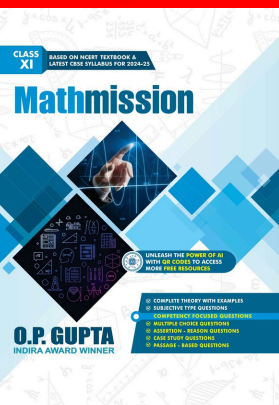
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