

15. 3D GEOMETRY

1. If the mid points of the sides AB, BC, CA of a triangle are $(1, 5, -1)$, $(0, 4, -2)$, $(2, 3, 4)$ respectively, then the length of the median drawn from C to AB is [AP EAMCET 17-09-20_Shift-1]
 1. $\sqrt{29}$
 2. $\sqrt{27}$
 3. $\sqrt{5}$
 4. 5
2. Let a, b, c be real numbers. A set formed with a, b, c whose order of occurrence is preassigned is called [AP EAMCET 17-09-20_Shift-1]
 1. An ordered triad
 2. An ordered pair
 3. Both ordered triad and ordered pair
 4. None of these options are correct
3. If origin is the centroid of the triangle PQR with vertices $P(2a, 2, 6)$, $Q(-4, 3b, -10)$ and $R(8, 14, 2c)$, then the values of a, b, c respectively are [AP EAMCET 17-09-20_Shift-2]
 1. $2, \frac{16}{3}, -2$
 2. $-2, -\frac{16}{3}, -2$
 3. $-2, -\frac{16}{3}, 2$
 4. $-2, \frac{16}{3}, -2$
4. If the line joining the points $(k, 3, 4)$, $(4, 7, 8)$ is parallel to the line joining the points $(-1, -2, 1)$, $(1, 2, l)$ then $k + l =$ [AP EAMCET 18-09-20_Shift-1]
 1. 2
 2. 5
 - 3

