(a.) Terminate after 1 decimal place (b.) Terminate after 2 decimal place
(c.) Terminate after 3 decimal place (d.) not terminate
2. The length of longest pole that can be kept in a room ($12m \times 9m \times 8m$) is
(a.) 17m (b.) 19m (c.) 21m (d.) 29m
3. The LCM of smallest two digit composite number and smallest composite number is (a.) 12 (b.) 4 (c.) 20 (d.) 44
4. For which value(s) of k, will the lines represented by the following pair of linear equations be parallel $3x - y - 5 = 0$, $6x - 2y - k = 0$
(a.) All real values except 10 (b.) 10 (c.) $\frac{5}{2}$ (d.) $\frac{1}{2}$
5. If triangle ABC is right angled at C, then the value of sec (A+B) is (a.) 0 (b.) 1 (c.) $\frac{2}{\sqrt{3}}$ (d.) not defined
6. If $\sin \theta + \cos \theta = \sqrt{2} \cos \theta$, $(\theta \neq 90^0)$ then the value of $\tan \theta$ is
(a.) $\sqrt{2} - 1$ (b.) $\sqrt{2} + 1$ (c.) $\sqrt{2}$ (d.) $-\sqrt{2}$
7. Given that $\sin \alpha = \frac{\sqrt{3}}{2}$ and $\cos \beta = 0$, then the value of $\beta - \alpha$ is
(a) 0° (b) 90° (c) 60° (d) 30°
8. The point which divides the line segment joining the points (8,-9) and (2,3) in ratio 1:2 internally lies in the
(a.) I quadrant (b.) II quadrant (c.) III quadrant (d.) IV quadrant
9. The distance of the point P $(-3, -4)$ from the x-axis (in units) is (a) 3 (b)-3 (c) 4 (d) 5
(a) 3 (b)-3 (c) 4 (d) 5 10.If $A(\frac{m}{3}, 5)$ is the mid-point of the line segment joining the points $Q(-6, 7)$ and
10.11 $A(\frac{1}{2}, 5)$ is the mid-point of the line segment joining the points $Q(-6, 7)$ and
R(-2,3), then the value of k is