

**Objective Type Questions**

**Q.1** Each questions has four possible answers. Choose the correct answer and encircle it.

\_\_1. One degree is equal to:

(a)  $\pi$  rad

(b)  $\frac{\pi}{180}$  rad

(c)  $\frac{180}{\pi}$  rad

(d)  $\frac{\pi}{360}$  rad

\_\_2.  $15^\circ$  is equal to:

(a)  $\frac{\pi}{6}$  rad

(b)  $\frac{\pi}{3}$  rad

(c)  $\frac{\pi}{12}$  rad

(d)  $\frac{\pi}{15}$  rad

\_\_3.  $75^\circ$  is equal to

(a)  $\frac{\pi}{12}$  rad

(b)  $\frac{2\pi}{3}$  rad

(c)  $\frac{4\pi}{3}$  rad

(d)  $\frac{5\pi}{12}$  rad

\_\_4. One radian is equal to:

(a)  $90^\circ$

(b)  $\left(\frac{90}{\pi}\right)^\circ$

(c)  $180^\circ$

(d)  $\left(\frac{180}{\pi}\right)^\circ$

\_\_5. The degree measure of one radian is approximately equal to:

(a) 57.3

(b) 57.2

(c) 57.1

(d) 57.0

\_\_6.  $\frac{2\pi}{3}$  radians are equal to:

(a)  $60^\circ$

(b)  $90^\circ$

(c)  $120^\circ$

(d)  $150^\circ$

\_\_7. The terminal side of  $\theta$  lies in 4<sup>th</sup> quadrant, sign of the  $\sin \theta$  will be:

(a) Positive

(b) Negative

(c) Both +ve and -ve

(d) None of these

\_\_8. The terminal side of  $\theta$  lies in 4<sup>th</sup> quadrant, both  $\sin \theta$  and  $\tan \theta$  are:

(a)  $\sin \theta > 0, \tan \theta > 0$

(b)  $\sin \theta > 0, \tan \theta < 0$



