CLASSIC STUDY ONE OF THE BEST ONLINE STUDY PLAT FORM

Name of Student	Class	Subject	Board	Chapter
	10th	Mathematics	FB	7
Date :	! !	Objec	Teacher Remarks	

Section - A

Q. No.1:- Circle the correct option. Each part carries one mark.

l i	One revolution =?								
a	180°	b	b 360°		720°	d	1530°		
ii	Area of circle =?								
а	$2\pi r$	b	πr^2	С	$4\pi r^2$	d	$\pi r^2 \theta$		
iii	A part of circumference of circle is called:								
а	Chord	b	Radius	С	Segment	d	Arc		
iv	The angles having same initial and terminal sides called:								
а	Quadrantal angles	b	Cotermimnal angles	С	Right angles	d	None of these		
V	3.5 revolutions =?								
а	3π	b	3.5π	С	7π	d	10π		
vi	Which one is quadrantal angle:								
а	30°	b	60°	С	90°	d	45°		
vii	225° lies in the quadrant:								
а	1 st	b	2 nd	С	3 rd	d	4 th		
viii	$\cos \cos \theta = ?$								
a	$\frac{y}{x}$	b	$\frac{x}{y}$	С	$\frac{x}{r}$	d	$\frac{y}{r}$		
ix	$\tan \tan \theta$ 180° =?								
а	0	b	1	С	-1	d	∞		
Х	Value of $\sin \sin \theta$ and $\cos \cos \theta$ is same at an angle of:								
а	0°	b	90°	С	45°	d	360°		
хi	$\frac{1}{2}cosec\theta \ 45^{\circ} = ?$								
а	$\frac{1}{2\sqrt{2}}$	b	$\frac{1}{\sqrt{2}}$	С	$\sqrt{2}$	d	$\frac{\sqrt{3}}{2}$		
xii	If $tan\theta = \sqrt{3}$ then $\theta = ?$								
а	90°	b	45°	С	60°	d	30°		
xiii	20° =?								
а	360'	b	630'	С	1200'	d	3600'		
xiv	<i>tan</i> θ =?								
а	<u>sinθ</u> cosθ	b	$\frac{1}{\cot \theta}$	С	Both a&b	d	None of these		
XV	$\sin^2\theta + \cos^2\theta = ?$								
а	1	b	0	С	sinθ	d	cosθ		



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Section - B

Q. No.2:- Solve any twelve. All questions carry equal marks.

- 1. Locate the angles 135° and 150°.
- 2. Express into decimal 60° 30′ 30′′.
- 3. Show that $I = r\theta$.
- 4. Find the distance travelled by a cyclist moving on a circle of radius 15m if he makes 3.5 revolutions.
- 5. What is the length of arc APB?
- 6. Find area of sector having radius 6cm and central angle of 60°.
- 7. Find trigonometric ratios of 45°.
- 8. Show that $\sin^2\theta + \cos^2\theta = 1$.
- 9. If P (-3, -4) is a point in plane. Find all the trigonometric ratios.
- 10. Prove that $sec\theta cos\theta = tan\theta sin\theta$.
- 11. Prove that $tan\theta + cot\theta = sec\theta cosec\theta$.
- 12. Write in single trigonometric function *tanx sinx secx*.
- 13. Define quadrental angles.
- 14. Define one radian?
- 15. Find r when I = 52 and $\theta = 45^{\circ}$.

Section - C

Note: Attempt only three questions. All question carry equal marks.

- Q. No.3:- If $cos\theta = \frac{-2}{3}$ and terminal arm of the angle θ in quadrant II. Find the values of remaining trigonometric ratios.
- Q. No.4:- A television antenna of 8 feet height is located on the top of the house. From a point on the ground the angle of elevation to the top of house is 17° and to the top of antenna is 21.8°. Find height of house.
- Q. No.5:- Prove the identity $\frac{1}{1-cos\theta} + \frac{1}{1+cos\theta} = 2 cosec^2\theta$.

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