ECAT Mathematics Chapter 12 Trigonometric Functions and Identities

Sr	Questions	Answers Choice
1	The value of 63^{o}in term ofπ is	A. 5π/2<img width="9" height="19" src="file:///C:/Users/Softsol/AppData/Local/Temp/msohtmlclip1/01/clip_image002.png" v:shapes="_x0000_i1025"> <!--[endif]--><o:p></o:p> B. 5π/3 C. 7π/20 D. 7π/3
2	21.256^{o}	A. 21^o15'21" B. 21^o20'56" C. 21^o25'1" D. 21^o25'6"
3	the value of 25π/36 in degrees is	A. 120^o <!--[endif]--><o:p></o:p> B. 125^o C. 60^o D. 115^o
4	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
5	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
6	Express cos 320^{o} between $0^{o}$and 45^{o}	A. cos 45^o B. cos 30^o C. -cos 40^o D. cos 40^o
7	If l=1.5 cm and r=2.5 cm, then 0=	A. .3 radians B. .20 radians C. .5 radians D. .6 radians
8	The value of 150^{o} in term of π is	A. 2π/5 <!--[endif]--><o:p></o:p> B. 5π/2 C. 3π/2 D. 2550/32401π
9	Express cos 320^{o} between $0^{o}$and 45^{o}	A. cos 45^o B. cos 30^o C. -cos 40^o D. cos 40^o
10	The circle with are 60 cm^{2} has an arc 8 cm long. The angle that is subtended at the centre of the circle by the are is	A. 1.83 radians B. 2.1 radians C. 1.05 radians D. 1.25 radians
11	if tanθ = 8/15 and cosθ< 0 , then cscθ =	A. -8/15 B. 15/8 C. 3/15 D. -17/8
12	The circular measure of the angle between the hands of a watch of 4 0'clock is	A. π/2 B. π/4 C. 2π/3 D. π/6
13	56^{o}=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
14	The value of 7π/9 in terms of degree is	A. 140^o B. 130^o C. 120^o D. 45^o
15	The value of 2π/3 in degree is	A. 120^o B. 160^o C. 150^o

		D. 60^o
16	The value of 289^{o}in radians is	A. 4.05 B. 3.02 C. <!--[if gte msEquation 12]><m:oMathPara><m:oMath><m:r>o</m:r></m:oMath></m:oMathPara><![endif]--><!--[if !msEquation]--><!--[if gte vml 1]><v:shapetype id="_x0000_t75" coordsize="21600,21600" o:spt="75" o:preferrelative="t" path="m@4@5l@4@11@9@11@9@5xe" filled="f" stroked="f"> <v:stroke joinstyle="miter"/> <v:formulas> <v:f eqn="if lineDrawn pixelLineWidth 0"/> <v:f eqn="sum @0 1 0"/> <v:f eqn="sum 0 0 @1"/> <v:f eqn="prod @2 1 2"/> <v:f eqn="prod @3 21600 pixelWidth"/> <v:f eqn="prod @3 21600 pixelHeight"/> <v:f eqn="sum @0 0 1"/> <v:f eqn="prod @6 1 2"/> <v:f eqn="prod @7 21600 pixelWidth"/> <v:f eqn="sum @8 21600 0"/> <v:f eqn="prod @7 21600 pixelHeight"/> <v:f eqn="sum @10 21600 0"/> </v:formulas> <v:path o:extrusionok="f" gradientshapeok="t" o:connecttype="rect"/> <o:lock v:ext="edit" aspectratio="t"/> </v:shapetype><v:shape id="_x0000_i1025" type="#_x0000_t75" style='width:6pt; height:14.25pt'> <v:imagedata src="file:///C:/Users/Softsol/AppData/Local/Temp/msohtmlclip1/01/clip_image001.png" o:title="" chromakey="white"/> </v:shape><![endif]--><!--[if !vml]--><img width="8" height="19" src="file:///C:/Users/Softsol/AppData/Local/Temp/msohtmlclip1/01/clip_image002.png" v:shapes="_x0000_i1025" style="font-family: Calibri, sans-serif; font-size: 11pt;"><img width="9" height="19" src="file:///C:/Users/Softsol/AppData/Local/Temp/msohtmlclip1/01/clip_image002.png" v:shapes="_x0000_i1025" style="font-family: Calibri, sans-serif; font-size: 11pt;">π/2<!--[endif]--><!--[endif]--><o:p></o:p> <!--[endif]--><o:p></o:p> D. 5.04
17	16^{o}30' =	A. 16.5^o B. 16.2^o C. 16.60^o D. 19.9^o
18	If x>0 and y<0, then cosθ	A. Positive B. negative C. zero D. infinity
19	The area of a sector of a circular region of radius r is	A. 2π r B. π r² C. 1/2πr² D. π/6
20	56^{o}=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98