ECAT Mathematics Chapter 12 Trigonometric Functions and Identities

Sr	Questions	Answers Choice
1	21.256^{o}	A. 21^o15'21" B. 21^o20'56" C. 21^o25'1" D. 21^o25'6"
2	3/π=.....	A. 54.71^o B. 21^o C. 51^o D. 29^o
3	The value of 300^{o} in term ofπ is	A. 5π/3 B. 2π/3 C. 5π/2 D. 5π
4	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
5	The value of 2π/3 in degree is	A. 120^o B. 160^o C. 150^o D. 60^o
6	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
7	56^{o}=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
8	The are of sector of a circular region of radius r is	A. 2π r B. π r² C. 1/2π r² D. 1/2 r²0
9	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
10	If x>0 and y<0, then cosθ	A. Positive B. negative C. zero D. infinity
11	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
12	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
13	If l=1.5 cm and r=2.5 cm, then 0=	A. .3 radians B. .20 radians C. .5 radians D. .6 radians
14	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
15	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
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	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
18	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
19	The value of 7π /9 in terms of degrees is	A. 150^o B. 130^o C. 135^o D. 140^o
20	The value of 7π/9 in terms of degree is	A. 140^o B. 130^o C. 120^o D. 45^o