ECAT Mathematics Chapter 12 Trigonometric Functions and Identities

Sr	Questions	Answers Choice
1	The value of 300^o in term ofπ is	A. 5π/3 B. 2π/3 C. 5π/2 D. 5π
2	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
3	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
4	$16^o30'$ =	A. 16.5^o B. 16.2^o C. 16.60^o D. 19.9^o
5	3/π=.....	A. 54.71^o B. 21^o C. 51^o D. 29^o
6	56^o=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
7	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
8	56^o=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
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	The value of 7π/9 in terms of degree is	A. 140^o B. 130^o C. 120^o D. 45^o
11	if tanθ = 8/15 and cosθ< 0 , then cscθ =	A. -8/15 B. 15/8 C. 3/15 D. -17/8
12	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
13	The value of 63^oin 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
		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

14	The value of 289^{o}in radians is	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
15	The value of 2π/3 in degree is	A. 120^o B. 160^o C. 150^o D. 60^o
16	radian is the measure of the angle subtended oat the centre of the circle by an are, whose length is equal to the	A. radius of the circle B. circumference C. are length D. tangent of the circle E. none of these
17	154^{o} 20' =	A. 2550/34401π<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. 27721/22400 π C. 2521/32400π D. 4125/32400π
18	If l=1.5 cm and r=2.5 cm, then 0=	A. .3 radians B. .20 radians C. .5 radians D. .6 radians
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	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