ECAT Mathematics Chapter 12 Trigonometric Functions and Identities

Sr	Questions	Answers Choice
1	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
2	$16^o30'$ =	A. 16.5^o B. 16.2^o C. 16.60^o D. 19.9^o
3	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
4	If cosθ = 9/41 and sinθ< 0, the tanθ =	A. 41/9 B. -40/9 C. 9/10 D. 3/20
5	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
6	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
7	if tanθ = 8/15 and cosθ< 0 , then cscθ =	A. -8/15 B. 15/8 C. 3/15 D. -17/8
8	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
9	If l=1.5 cm and r=2.5 cm, then 0=	A. .3 radians B. .20 radians C. .5 radians D. .6 radians
10	21.256^o	A. 21^o15'21" B. 21^o20'56" C. 21^o25'1" D. 21^o25'6"
11	56^o=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
12	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
13	The value of 7π/9 in terms of degree is	A. 140^o B. 130^o C. 120^o D. 45^o
14	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
		A. 4.05 B. 3.02 C. <!--[if gte msEquation 12]><m:oMathPara><m:oMath><i

15	The value of 289^{o}in radians is	style='mso-bidi-font-style:normal'> <m:r>o</m:r></i></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
16	The value of 2π/3 in degree is	A. 120^o B. 160^o C. 150^o D. 60^o
17	The value of 300^{o} in term ofπ is	A. 5π/3 B. 2π/3 C. 5π/2 D. 5π
18	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
19	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
20	56^{o}=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98