ECAT (Pre-Eng) Mathematics Chapter 12 Trigonometric Functions and Identities

Sr	Questions	Answers Choice
1	If x>0 and y<0, then cosθ	A. Positive B. negative C. zero D. infinity
2	The value of 7π/9 in terms of degree is	A. 140^o B. 130^o C. 120^o D. 45^o
3	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
4	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
5	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
6	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
7	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
8	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
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	The value of 289^oin 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

11	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
12	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
13	The value of 7π /9 in terms of degrees is	A. 150^o B. 130^o C. 135^o D. 140^o
14	56^{o}=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
15	3/π=.....	A. 54.71^o B. 21^o C. 51^o D. 29^o
16	21.256^{o}	A. 21^o15'21" B. 21^o20'56" C. 21^o25'1" D. 21^o25'6"
17	If sinθ = 12/13, and sinθ > 0, then tan θ =	A. 2/5 B. 12/13 C. 13/5 D. 12/5
18	56^{o}=.....radians	A. 1.25 B. 2.56 C. 95 D. 0.98
19	The value of 300^{o} in term ofπ is	A. 5π/3 B. 2π/3 C. 5π/2 D. 5π
20	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