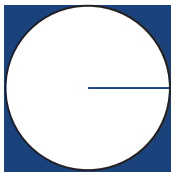
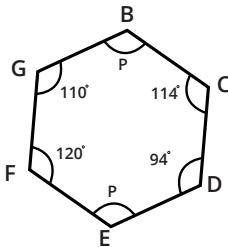
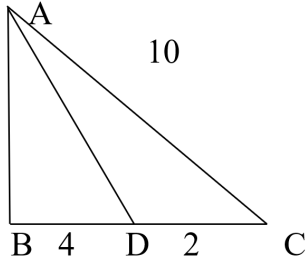
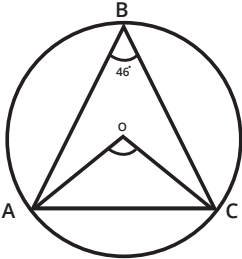
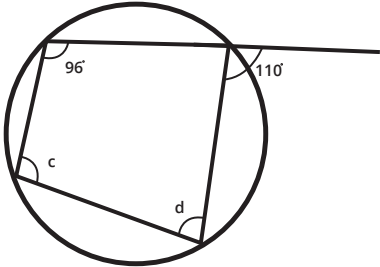


PART - I
SECTION 1 – MATH ABILITY

1)	Simplify $(3y)^2 + x^2 - (2y)^2$	
	A) $2y^2$	C) $y^2 + x^2$
	B) $5y^2 + x^2$	D) $6y^2 + x^2$
2)	Solve $\frac{3}{5} + \frac{x}{10} = -\frac{1}{5} + \frac{x}{5}$	
	A) $x = 2$	C) $x = 1/5$
	B) $x = -4$	D) $x = 2/5$
3)	The result of trebling a number is the same as adding 12 to it. The number is ____.	
	A) 9	C) 6
	B) 0	D) -6
4)	A circle of radius 5 cm is inscribed in a square find the area of the shaded portion. ($\pi=3.1$)	
		
	A) 25 cm^2	C) 77.5 cm^2
	B) 177.5 cm^2	D) 22.5 cm^2
5)	Calculate the height of a cylinder with volume 500 cm^3 and the base radius 8 cm?	
	A) 2.48 cm	C) 8.42 cm
	B) 4.28 cm	D) 1.26 cm
6)	Find the Angle marked with letter P.	
		
	A) Angle B = 41° , angle E = 56°	C) Angle B = 141° , angle E = 141°
	B) Angle B = 121° , angle E = 116°	D) Angle B = 121° , angle E = 121°
7)	The length of a diagonal of rectangle of length 8cm and width 6 cm is	
	A) 10 cm	C) 5 cm
	B) 14 cm	D) 100 cm
8)	Find AD.	
		
	A) 6	C) 80
	B) $\sqrt{80}$	D) $\sqrt{22}$

9)	In a parallelogram if $\angle A = (5x+7)^\circ$, $\angle B = (3x-3)^\circ$, what is the value of $\angle A$?	
	A) 117	C) 119
	B) 63	D) 61
10)	If the mean of five observations: $x, x+2, x+4, x+6, x+8$ is 13, then the value of x is ____.	
	A) 9	C) 3
	B) 6	D) 12
11)	The median of the following observations is ____. Observations: 41,39,48,52,41,48,36,41,37,35.	
	A) 39	C) 41
	B) 52	D) 37
12)	The equation relating the cooking time 't', and mass 'm' kg, for a cake is $t = (3m+1)/4$. The mass of a cake requires a cooking time of 2.8 hours is ____.	
	A) 11.2 Kg	C) 4.08 Kg
	B) 3.4 Kg	D) 2.4 Kg
13)	In the given figure, find $\angle AOC$ if $\angle ABC = 46^\circ$	
		
	A) 102°	C) 92°
	B) 54°	D) 134°
14)	The value of c and d in the given figure is ____.	
		
	A) $C = 81^\circ, D = 84^\circ$	C) $C = 84^\circ, D = 79^\circ$
	B) $C = 79^\circ, D = 81^\circ$	D) $C = 101^\circ, D = 84^\circ$
15)	Write any two points lying on the negative direction of X axis.	
	A) (1,0) (2,0)	C) (-1,0)(-2,0)
	B) (-1,0)(2,0)	D) (0,-1)(0,-2)
16)	Which one of these is not a polynomial?	
	A) $2x^2 + 3$	C) $\sqrt{3x} - 3$
	B) $x + \frac{1}{x}$	D) $\frac{7}{5}y - 10$

17)	If $f(x) = 3x+5$, then $f(7)-f(5)$ is equal to ____ ?	
	A) 6	C) -6
	B) 3	D) -3
18)	The value of $16^{\frac{3}{4}}$ divided by $16^{\frac{-1}{4}}$ is _____	
	A) $\frac{3}{4}$	C) $\frac{1}{2}$
	B) 4	D) 16
19)	The value of $(1^3 + 2^3 + 3^3)^{-3/2}$	
	A) 1/216	C) 1/64
	B) 1/6	D) 216
20)	The value of 2.99999... in the form of p/q, where p and q are integers and $q \neq 0$ is ____.	
	A) $x=2/1$	C) $x=2.99/2$
	B) $x=3/2$	D) $x=3/1$

SECTION 02 – LOGICAL REASONING

21)	Which of these words would appear first in reverse dictionary order?	
	A) Paleontologist	C) Paleopathology
	B) Paleographical	D) Paleoecology
22)	Arrange the following words in the order in which they would appear in a dictionary : 1.Palliative, 2.Pallet, 3.Palatial, 4.Palatableness	
	A) 1,2,3,4	C) 3,2,1,4
	B) 2,1,3,4	D) 4,3,2,1
23)	Arrange the following words in the reverse of the order in which they would appear in a dictionary : 1.Orthogonality , 2.Orthopsychiatry , 3. Orthogenetic, 4.Orthodontist	
	A) 1,2,3,4	C) 3,2,1,4
	B) 2,1,3,4	D) 4,3,2,1
24)	Arrange the following in a meaningful order: 1.Carbon Emission , 2.Sea Level Rising , 3. Glacier Melting, 4. Global Warming	
	A) 1,4,3,2	C) 3,2,1,4
	B) 2,1,3,4	D) 4,3,2,1
25)	Which of these following words cannot be formed with the letters in the word “FACTIONALIZING” ?	
	A) FICTION	C) CAPTION
	B) NATION	D) FACTION
26)	Which of these following words cannot be formed with the letters in the word “ZEPHYRANTHESES” ?	
	A) ZEPHYR	C) RANT
	B) PARENTHESSES	D) PARENTHESIS
27)	Which of these following words cannot be formed with the letters in the word “BACTERICIDALLY”	
	A) YEAST	C) CIDER
	B) DAILY	D) DALLY

28)	Which of these following words can be formed with the letters in the word "ECCLESIASTICAL"		
	A) STICK	C) CALLIPER	
	B) SCIATIC	D) CLICK	
29)	What is the number of meaningful words that can be made from the letters C,A,T,T,I using all the letters (each letter can be used only once per word)?		
	A) 4	C) 3	
	B) 2	D) 1	

Questions 30 - 40 : Read the following paragraph to answer the questions below:

Paragraph: 8 friends A,B,C,D,E,F,G & H are sitting in a circle. A sits between C & D, B sits facing A positioned between E & F. E sits on the immediate left of G while D sits on the immediate left of H. G & H sit facing each other.

30)	Who is second from the left of B?		
	A) A	C) H	
	B) F	D) G	
31)	Who sits on the immediate right of H?		
	A) E	C) F	
	B) C	D) B	
32)	Who sits on the immediate left of E ?		
	A) A	C) B	
	B) G	D) H	
33)	Who sits second from the left of E?		
	A) B	C) F	
	B) G	D) D	
34)	Who sits to the immediate right of G ?		
	A) C	C) A	
	B) D	D) E	
35)	Who sits to the immediate left of F ?		
	A) H	C) B	
	B) G	D) D	
36)	'H' sits between which of these two pairs ?		
	A) D&C	C) E&C	
	B) F&E	D) F&D	
37)	C sits between which of the following two people ?		
	A) G&A	C) A&D	
	B) H&A	D) E&G	
38)	Who sits 3rd from the left of G ?		
	A) E	C) B	
	B) F	D) D	
39)	Who sits to the immediate right of D?		
	A) H	C) G	
	B) C	D) E	
40)	Who sits to the immediate left of C?		
	A) H	C) G	
	B) F	D) E	

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