1. 

 Doctors, Fathers, Gents are shown in the wein diagram. then doctors indicates
(A) Circle
(B) Square
(C) Rectangle
(D) None
2. The Example of a tautology is
(A) $p \rightarrow(p \vee q)$
(B)
(C)
(D)
3. The quantifier implied in the statement "No one child is not lazy"
(A)
(B)
(C)
(D)
4. , then $f(2.1919 . . . . .)=$. $\qquad$
(A)
(B) 0
(C) -1
(D) 1
5.

In the given figure, value ot $x$ is $\qquad$
(A) $45^{0}$
(B) $34^{0}$
(C) $64^{0}$
(D) $109^{\circ}$
6. $\mathrm{A}-(\mathrm{BUB})=$
(A) B
(B) $\phi$
7. Which has only subset
(A) $\}$
(B) $\{0,1\}$
8. The Counter example of

(A)
(B) 2
(C) 3
(D) 5
9. and then
(A) 40
(B) 50
(C) 60
(D) 30
10. then the no. of Relations defined on
(A)
(B)
(C)
(D)
11. If the world population is increasing by one person per every second then the increase of population in 5 days will be
(A) 4 lakhs, 32 thousand
(B) 86 thousand, 400
(C) 3 lakhs, 59 thousand
(D) 1 lakh, 34 thousand
12.

> Zero value of this function
(A) 0
(B) No zero value
(C) Not a function
(D) (2-2)
13. The domain of $y=\sqrt{\log \frac{1}{|\sin x|}}$ is
(A) $R-(-\pi, \pi)$
(B)
(C)
(D)
14. then number of one-one functions from $A$ to $B$ is
(A)
(B)
(C)
(D) None
15. then $f^{-1}(x)=$ $\qquad$
(A) $\frac{7 x-2}{3}$
(B)
(C)
(D)
16. The square root of
(A)
(B)
(C)
(D)
17. The sum of a number and its inverse number is then the numbers are
(A)
(B)
(C)
(D)
18. Expansion of the term of independent of $x$
(A)
(B)
19. Expansion of $(x+3 y)^{10}$ the no.of center ter
(A) 1
(B) 2
(C) $3^{\circ}$
(D) None
20. ' $n$ ' is any odd number then is divisible by $\qquad$
(A) 48
(B) 36
(C) 100
(D)32
21. Expansion of the $12^{\text {th }}$ term is $\qquad$
(A)
(B)
(C)
(D)
22. Importance ot Ramanujan number (1729) is
(A)
(B) $1729=10^{3}+9^{3}$
(C) Both
(D) None
23. is completely divided by . then the value of $p$ is.........
(A) 6
(B) -6
(C) 8
(D) -8
24.
(A) 3.25
(B) 4.35
(C) 6.89
(D) 8.0
25. In the given figure, $\angle B A C=30^{\circ}$, then $\angle O B C=$ $\qquad$
(A)
(B)
(C)
(D)
26. Which are the sides of Right angled triangle
(A) $8,15,17$
(B) $6,8,12$
(C) 5,8,11
(D) $3,4,6$
27. In the given figure, the radius of the outer circle is ' $a$ ' then the radious of the inner circle is
(A) $(\sqrt{2}-1) a$
(B) $\sqrt{2} a$
(C)
(D)
28. The ratio of the areas of and is $4: 9$ then the ratio of the corresponding sides of and is
(A) $2: 3$
(B) $16: 81$
(C) $3: 2$
(D) $9: 4$
29. If lie on a line, then $x=-(D)$
(A) -5
(B) 2
(C) 4
(D) 6
30. The slope ot the straight line $\qquad$
(A)
(B)
(C)
(D)
31. The point $(0,0)$ lies on the line $\qquad$
(A) $y=5$
(B) $x=4$
(C) $y=x$
(D) $y=2 x+3$
32. The image (reflection) of the point with respect to $y$-axis is
(A)
(B)
(C)
(D)
33. If
is parallel to $x$ axis then $k=$ $\qquad$
(A) 1
(B) 2


(A) 1
(B) -2
(C)
(D) 1
35. The angle between the lines $x-7 y-22=0 ; 7 x+y-54=0$ is
(A) $45^{\circ}$
(B) $60^{\circ}$
(C) $90^{\circ}$
(D) $120^{\circ}$
36. The median of the data is
(A)
(B)
(C)
(D)
37. The mean of data is 9 . If each observation is multiplied by 3 and the 1 added to each result, find the mean of the new observations so obtained
(A) 27
(B) 29
(C) 28
(D) 26
38. A.M. $=43$, Median $=43.4$, then Mode $=$
(A) 44.2
(B) 43.4
(C) 44.4
(D) 42.4
39. For what value of ' $a$ ' will 7.5 be the median of $4,6, a, 9,10,19$
(A) 6
(B) 10
(C) 7
(D) 8
40. Mean of the following data $8,-2,9,6,13,17,12$
(A) 10
(B) 8
(C) 7
(D) 9
41. How many right angled triangles are ther is the given figure
(A) 12
(B) 15
(C) 9
(D) 11
42. 2, 10, 30, 68, 130, 222,
(A) 350
(B) 250
(C) 450
(D) 280
43.

(A) 2031
(B) 731
(C) 1625
(D) 1
44. Ram travels a certain distance at $3 \mathrm{~km} / \mathrm{hr}$ and reaches 15 min . late. If he travels at $4 \mathrm{~km} / \mathrm{hr}$, he reached 15 min earlier the distance he has to travel is
(A) 4.5 km
(B) 6 km
(C) 7.2 km
(D) 12 km
45. '+' stands for division, $\div$ stands for multiplication, ' $X$ ' stands for subtraction and '-' stands for addition which one of the following equations is correct!
(A)
(B)
(C)
(D)
46. In a certain code MUNICIPALITY is written as INMUAPCIYTLI. How is JUDICIAL written in that code
(A) UJDILACI
(B) IDUJLACI

(D) IDJULACI
47.
(A) E10
(B) E 12
(C) S 10
(D) S12
48. In a family, a couple has a son and a daughter the age ot the father is three times that of his daughter and the age of son is half of his mother the wife is 9 yrs younger to her husband and the brother is seven years older than his sister. What is the age of the mother
(A) 40 yrs
(B) 45 yrs
(C) 50 yrs
(D) 60 yrs
49. what is the water image of FAMILY
(A) gVNIJX
(B) EVWITX
(C) EVMITX
(D) EVWIГ
50. What is the mirror image of T3S4P5H6
(A) 6H5P4S3T
(B) H6P5S4T3
(C) 9Hえqよ ટદT
(D) дНट૧РฉદТ

