1) for some integer $n$, which one is even
(a) $\mathrm{n}+2$
(b) $2 \mathrm{n}+1$
(c) 2 n
(d) $n^{2}+2$
2) Which fraction is the biggest?
(a) $3 / 5$
(b) $5 / 8$
(c) $1 / 2$
(d) $4 / 7$
3) The value of $p$ for which the polynomial $x^{3}+4 x^{2}-p x+8$ is exactly divisible by $(x-2)$ is
(a) 0
(b) 3
(c) 5
(d) 16
4) The slope of the line $a x+b y+c=0$ is
(a) $a / b$
(b) $-a / b$
(c) $-\mathrm{c} / \mathrm{b}$
(d) c/b
5) The number in form of $4 p+3$, where $p$ is whole number, will always be
(a) even
(b) odd
(c) multiple of three
(d) prime
6) The length of the tangent from an external point $A$ on a circle with center $O$ is
(a) always greater than OA
(b) equal to OA
(c) always less than OA
(d) cannot be estimated
7) In given circle with center $O$ and tangent $A T$, value of angle BAT is

(a) $65^{\circ}$
(b) $60^{\circ}$
(c) $50^{\circ}$
(d) $40^{\circ}$
8) If $\mathrm{x}<0$ then $|x|$ is equal to
a. (a) $-x$
(b) $x$
(c) 0
(d) 1
9) A matrix obtained by changing the rows into columns or vice versa is called
(a) additive inverse of $A$
(b) transpose of $A$
(c) determinant of A
(d) order of A
10) Radha invested some money in a bank at rate of $6 \%$ per annum. At simple interest, after 9 years, she got Rs. 8470. How much did she invest?
(a) Rs. 5250
(b) Rs. 6550
(c) Rs. 6400
(d) Rs. 5500
11) In given figure of rectangle, the value of CE is

(a) 1 cm
(b) 2 cm
(c) 3 cm
(d) 4 cm
12) The $21^{\text {th }}$ term of the AP whose first two terms are -3 and 4 is
(a) 17
(b) 137
(c) 143
(d) -143
13) In the sequence: $2,1,1 / 2,1 / 4, \ldots$ What the number should come next?
(a) $1 / 3$
(b) $1 / 8$
(c) $2 / 8$
(d) $1 / 16$
14) If $\cos x=2 / 3$ then $\tan x$ is equal to
(a) $5 / 2$
(b) $\sqrt{ }(5 / 2)$
(c) $\sqrt{5} / 2$
(d) $2 / \sqrt{ } 5$
15) If $\cos \left(40^{\circ}+A\right)=\sin 30^{\circ}$, then value of $A$ is
(a) $30^{\circ}$
(b) $40^{\circ}$
(c) $60^{\circ}$
(d) $20^{\circ}$
16) A TV is purchased at Rs. 5000 and sold at Rs. 4000 , find the lost percent.
(a) 10\%
(b) $20 \%$
(c) $25 \%$
(d) $28 \%$
17) If the cost price is $25 \%$ of selling price. Then what is the profit percent.
(a) $75 \%$
(b) $200 \%$
(c) $300 \%$
(d) $25 \%$
18) A man buys an item at Rs. 1200 and sells it at the loss of 20 percent. Then what is the selling price of that item
(a) Rs. 660
(b) Rs. 760
(c) Rs. 860
(d) Rs. 960
19) The median of the data $13,15,16,17,19,20$ is:
(a) $30 / 2$
(b) $31 / 2$
(c) $33 / 2$
(d) $35 / 2$
20) The probability of event equal to zero is called;
(a) Unsure event
(b) Sure Event
(c) Impossible event
(d) Independent event
21) If we throw two coins in the air, then the probability of getting both tails will be:
(a) $1 / 2$
(b) $1 / 4$
(c) 2
(d) 4
22) The distance of point $A(2,4)$ from $x$-axis is
(a) 2
(b) 4
(c) -2
(d) -4
23) A function $f(x)$ is said to be an odd function if
(a) $f(-x)=f(x)$
(b) $f(-x)=-f(x)$
(c) $f(-x)=k f(x)$ where $k$ is a constant
(d) $f(-x)=k+f(x)$ where $k$ is a odd number.
24) If $A$ and $B$ are sets and $A \cup B=A \cap B$, then
(a) $A=\Phi$
(b) $B=\Phi$
(c) $A=B$
(d) $A \subset B$.
25) The set $A=\left\{x: x \in N\right.$ and $\left.x^{2}+3 x+2=0\right\}$ is
(a) Null set
(b) Finite set
(c) Infinite set
(d) A set with two elements.
26) The number of subsets of a set containing $n$ elements is
(a) $n^{2}$
(b) $2^{n}$
(c) $2^{n-1}$
(d) $2 n$
27) A set which contain exactly one element is called
(a) unary set
(b) empty set
(c) single set
(d) singleton set
28) The range of the function $f(x)=3 x-2$, is
(a) $(-\infty, \infty)$
(b) $\mathrm{R}-\{3\}$
(c) $(-\infty, 0)$
(d) $(0,-\infty)$
29) If $A$ completes a particular work in 4 days and $B$ completes the same work in 12 days. How many days will it take if they work together?
(a) 5
(b) 4
(c) 3
(d) 2
30) In the total investment of Rs 500,000 , B's share is $20 \%$. While A's share is $40 \%$ of the B's. What is the share of $A$ ?
(a) Rs 50,000
(b) Rs 34,000
(c) Rs 36,000
(d) Rs 40,000
31) Solution of the equation $x^{2}+1=0$ is
(a) 1
(b) -1
(c) $\pm 1$
(d) 0
32) The shaded region of the venn diagram represented by ?

(a) $A^{c}$
(b) $\mathrm{B}^{\mathrm{c}}$
(c) $A-B$
(d) $\mathrm{B}-\mathrm{A}$
33) Area of an equilateral triangle with side length a is equal to:
(a) $\sqrt{3} / 2 a$
(b) $\sqrt{3} / 2 a^{2}$
(c) $\sqrt{3} / 4 a^{2}$
(d) $\sqrt{3} / 4 a$
34) Which one is the correct trigonometric identity?
(a) $\cos ^{2} A-\sin ^{2} A=1$
(b) $1-2 \cos ^{2} A=\cos 2 A$
(c) $\sec ^{2} A-\tan ^{2} A=1$
(d) $2 \sin ^{2} A-1=\cos 2 A$
35) Which of the following is irrational?
(a) $\frac{\sqrt{12}}{3}$
(b) $\frac{\sqrt{9}}{\sqrt{4}}$
(c) $\sqrt{ } 81$
(d) $2 \sqrt{ } 4$
36) Which of the following statement is not true for a parallelogram
(a) Opposite angles are equal
(b) Opposite sides are equal
(c) Diagonals bisect each there
(d) Opposite angles are bisected by the diagonals
37) If $f(x)=5^{x}$ the value of $f(0)$ is
(a) 5
(b) 1
(c) 0
(d) -1
38) The value of the $\left(\sin \frac{A}{2}+\cos \frac{A}{2}\right)^{2}$ is
(a) $1+2 \sin \mathrm{~A}$
(b) $1+\sin \mathrm{A}$
(c) $1+2 \sin \mathrm{~A} / 2$
(d) $1+\cos A$
39) The value of $\tan 75^{0}$ is
(a) $-2+\sqrt{3}$
(b) $-2-\sqrt{3}$
(c) $-2-\sqrt{ } 3$
(d) $2+\sqrt{ } 3$
40) Gradient of a line joining the points $(2,7)$ and $(6,-3)$ is
(a) -2.5
(b) -0.4
(c) 0.4
(d) 2.5
41) Suresh $\qquad$ here for the last seven years.
(a) worked
(b) is working
(c) has worked
(d) works
42) 2. I went to the bookshop $\qquad$ 'Harry Potter'.
(a) For buying
(b) to buy
(c) to buying
(d) for to buy
1) I wish you $\qquad$ making that noise. It's bothering me.
(a) would stop
(b) are going to stop
(c) stop
(d) can stop
2) Let us play $\qquad$ cash.
(a) by
(b) in
(c) for
(d) at
3) Let's have fun $\qquad$ ?
(a) will we
(b) will you
(c) shall we
(d) shall you
4) They went to the park $\qquad$ the rain.
(a) despite
(b) in spite
(c) under
(d) avoiding
5) The city center was crowded $\qquad$ tourists.
(a) for
(b) of
(c) with
(d) by
6) The plural form of "ox" is:
(a) oxen
(b) oxes
(c) oxez
(d) none
7) The feminine form of deer is:
(a) deeress
(b) doe
(c) stag
(d) none
8) Neither of them $\qquad$ a problem.
(a) anticipate
(b) anticipates
(c) have anticipated
(d) are anticipating
9) She $\qquad$ her mobile phone yesterday.
(a) loss
(b) loose
(c) lose
(d) lost
10) Emma is older $\qquad$ Alice, while Jolie is $\qquad$ oldest.
(a) than, an
(b) from, the
(c) then, the
(d) than, the
11) I can't walk anymore, I'm $\qquad$ tired.
(a) too
(b) so
(c) such
(d) so such
12) My brother was trembling $\qquad$ cold.
(a) from
(b) with
(c) of
(d) by
13) He is occurred $\qquad$ cheating.
(a) for
(b) of
(c) on
(d) in
14) Which of the following word is an adverb?
(a)good (b) bad (c) well (d) melt
15) For me, breakfast is $\qquad$ best meal of the day.
(a) a
(b) an
(c) the
(d) none of the above
16) $\qquad$ light comes from the sun.
(a) $a$
(b) an
(c)the
(d) no article
17) I saw $\qquad$ old man yesterday.
(a) a (b) an
(c) the (d) no article
18) He has climbed $\qquad$ .Mt. Everest.
(a) a
(b) an
(c) the
(d) none

## Computer

## 20X 1 = 20

61) Which of the following is not a characteristic of a computer?
a) Versatility
b) Accuracy
c) Diligence
d) I.Q.
62) Which of the following is the smallest unit of data in a computer?
a) Bit
b) KB
c) Nibble
d) Byte
63) Which of the following is an output device?
a) Keyboard
b) Mouse
c) Light pen
d) VDU
64) Which of the following values is the correct value of this binary code 1011 and 1111 ?
a) 11 and 14
b) 12 and 15
c) 11 and 15
d) 12 and 14
65) Which of the following statement is correct about the virus?
a) The virus is a small program that infects a large program in the user system.
b) The virus is a file of the hacker.
c) The virus is an operating system that controls the entire OS.
d) None of the these
66) Which one of the following shortcut keys is used to paste a file?
(a) $\mathrm{Ctrl}+\mathrm{C}$
(b) $\mathrm{Ctrl}+\mathrm{p}$
(c) $\mathrm{Ctrl}+\mathrm{v}$
(d) $\mathrm{Ctrl}+\mathrm{x}$
67) What is the full form of PNG in the computer image format ?
a) Printable New Graphics
b) Portable New Graphics
c) Portable Network Graphics
d) Printable Network Graphics
68) What is the full of GIGO ?
(a) Garbage In Garbage Out
(b) Good Input Good Output
(b) Green In Green Out
(d) Generation in Generation Out
69) What is full form of GUI in terms of computers?
(a)Graphical user Instrument
(b)Graphical unified Interface
(c) Graphical unified Instrument
(d)Graphical user Interface
70) Which of the following statement is correct about the URL?
a) URL is a software that connects to the internet
b) URL is the address of the web page
c) URL is the domain name
d) All of the these
71) $A$ $\qquad$ is an application that allows the user to compose and edit simple documents.
a) Word processor
b) Spreadsheet
c) Email utility
d) Browsers
72) A program that can retrieve files from the world wide web and render text, images or sounds encoded in the files.
a) Browser
(b) Internet
(c) Server
(d) Web Server
73) WWW stands for
(a) World Whole Web
(b) Wide World Web
(c) Web World Wide
(d) World Wide Web
74) Which among following first generation of computers had?
(a) Vaccum Tubes and Magnetic Drum
(b) Integrated Circuits
(c) Magnetic Tape and Transistors
(d) All of above
75) In which of the following form, data is stored in computer ?
(a) Decimal
(b) Binary
(c)Hexa Decimal (d) Octal
76) What is LINUX ?
(a) Operating System
(b) Application Program
(c) Malware
(d)Firmware
77) ROM is ?
(a) non volatile (b)volatile (c)both the above (d)None of above
78) Who is known as first computer programmer ?
(a) Lady Augusta Ada Lovelace
(b) Charles Babbage
(c) Bjarne Stroustrup
(d) Dennis Ritchie
79) Where are saved files stored in computer?
(a) RAM
(b) Hard disk (c)Cache
(d) Any of above
80) Which operations are performed by RAM?
(a)Read
(b) Write (c)Read and Write
(d) Depends on computer

1Q
81) If the vowels were taken out, which letter would be the tenth consonant from the beginning of the alphabet? Select appropriate answer from following
(a) M
(b)L
(c) N
(d) $R$
82) If the value of $A$ is 1 and that of $B$ is 2 and thart of $C$ is 3 and so on. What is the total value of all alphabets?
(a) 348
(b) 349
(c) 350
(d) 351
83) Suppose a series is $1,9,25,49, ?, 121$, the number comes at the place of question mark in the given series is:
a) 91
(b) 21
(c) 52
(d) 81
84) $P$ \# $Q$ means $P$ is the father of $Q$ $P+Q$ means $P$ is the mother of $Q$ $P-Q$ means $P$ is the brother of $Q$ $P$ * $Q$ means $P$ is the sister of $Q$ If $A+B \# C-D$, then $A$ is $D$ 's
(a)Sister
(b)Grandfather
(c)Grandmother
(d) Father
85) What number is as much less than 5731 as it is greater than 3289 ?
(a) 4501
(b) 4510
(c) 9020
(d) 5410
86) Which word does NOT belong with the others?
(a) Inch
(b) ounce
(c) centimeter
(d) yard
87) Odometer is to mileage as compass is to
(a) Speed
(b) hiking
(c) needle
(d) direction
88) Marathon is to race as hibernation is to
(a) Winter
(b) bear
(c) dream
(d) sleep
89) If AIRLINE is written as ENILRIA7, then RAILWAY will be written as -
(a) YAWLIAR7
(b) YAWLIAR8
(c) YAWILAR7
(d) YAWILAR8
90) Which of the following is the odd one from the given alternatives?
(a) Driving
(b) Diving
(c) Swimming
(d) Sailing
91) Statement 1: John runs faster than George ;; Statement 2: Tom runs faster than John Statement 3: George runs faster than Tom

If statement 1 and statement 2 are true, statement 3 will be -
(a) True
(b) false
(c) uncertain
(d) None of the above
92) The day before yesterday was Saturday. What will be the day after tomorrow?
(a) Thursday
(b) Friday
(c) Wednesday
(d) Monday
93) Raman says "Anuj's mother is the only daughter of my mother." How is Anuj related to Raman?
(a) Brother
(b) Nephew
(c) Father
(d) None of the above
94) Shoe always has $\qquad$ .
(a) Laces
(b)Leather
(c)Strap
(d) Soles
95) In a horse race Sahil came in ahead of Ram. Sahil finished after Shashi. Sonam beat Shashi but finished after Rahul. Who came second?
(a) Sahil
(b) Shashi
(c) Sonam
(d) Rahul
96) What value replaces " ? " in the below figure ?
$3 \overbrace{6}^{42} 15$

$10 \overbrace{0}^{38} 20$
19
(a) 4
(b) 3
(c) 2
(d) 1
97) Select the option that gives the number missing from the following figure.

(a) 4
(b) 3
(c) 2
(D) 1
98) Which is the odd one out?

(a) A
(b) B
(c) C
(d) D
(e) E
99) Find the missing number

(a) 50
(b) 51
(c) 48
(d) 53
100) Arrange the following words in a meaningful sequence -

1. Sun
2. Rain
3. Child
4. Rainbow
5. Happy
(a) $2,1,4,3,5$
(b) $3,2,1,4,5$
(c) $2,1,3,4,5$
(d) $4,5,1,3,2$
