

1. In the following number series how many 9's are followed by a square number but not preceded by an odd number?

5 6 7 9 1 8 9 4 2 9 9 6 4 9 4 9 1 8 9 9

- A. 5
- B. 4
- C. 7
- D. 6

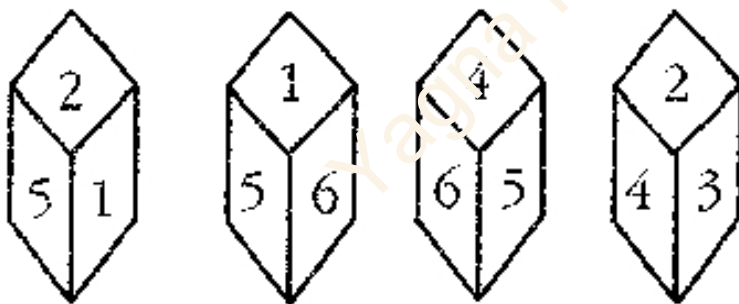
2. If  $\times$  stands for addition,  $<$  stands for subtraction,  $>$  stands for multiplication,  $\div$  stands for division,  $=$  stands for equal to,  $>$  stands for 'greater than',  $<$  stands for 'less than', then which of the given alternatives is correct?

- A.  $8 < 4 \times 3 - 3 \times 2 \times 1$
- B.  $8 > 4 < 3 - 3 > 2 < 1$
- C.  $8 + 4 < 3 \div 3 < 2 < 1$
- D.  $8 + 4 \times 3 = 3 > 2 \times 1$

3. World Marine Foundation is planning to locate the Sunken Ship "Titan" at the bottom of middle of Pacific Ocean. Three deep sea explorers, A, B and C are selected for the job. It is not feasible for each explorer to go on more than one trip. Also, Either A or B, but not both, goes on the first trip Either B or C, but not both, will go on a given trip More people go on the first trip than the second trip A goes on the first trip. Which of the following must be true?

- A. C and A go on the first trip
- B. A and C go on the second trip
- C. C goes on the second trip
- D. C does not go on the first trip

4. In the following question various face of a cube are shown. Which number is opposite to 4



- A. 1
- B. 2
- C. 3
- D. 4

5. If all the number from 1 to 73 which are divisible by 7 are arranged in descending order, then which number will be at 8<sup>th</sup> and 5<sup>th</sup> places?



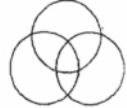
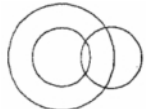
- A. 21,42,
- B. 28,42
- C. 21,56
- D. 14,49

6. If by arranging the letters of the word 'NESTIN the name of a game is formed, what are the first and last letters of the

word so formed?

- A. E,S
- B. T,N
- C. T,S
- D. E,N

7. Choose the Venn diagram which best illustrates the relationship among Girls, Students, Basketball player ?

- A. 
- B. 
- C. 
- D. 



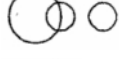

8. Manish ranked sixteenth from the top and twenty ninth from the bottom, among those who passed an examination. Six boys did not participate in the competition and five failed in it. How many boys were there in the class?

- A. 40
- B. 44
- C. 50
- D. 55

9. A station directress drives a car for 15 Km to the West from the radiostation. Then she turns left and goes 10 Km. After this she turns right and goes 18 Km. In which direction is she going now?

- A. South
- B. South-West
- C. West
- D. North-East

10. Which of the following diagrams indicates the best relation between Judges, Thieves and Criminals?

- A. 
- B. 
- C. 
- D. 

11. Five persons A, B, C, D and E are standing in a row B is between A and C and D is between C and E. If the distance of C from B is equal to the distance of D from C, what is the relationship between the distances of A to B and B to E?

- A. Both are equal
- B. A B is smaller than BE
- C. AB is larger than BE
- D. There is no relationship between AG and BE

12. Milind goes 30 metres North then turns right and walks 40 metres, then again turns right and walks 20 metres, then again turns right and walks 40 metres. How many metre(s) is he from his original position?

- A. 0
- B. 10
- C. 20
- D. 40

13. If in a certain code 2 = T, 4 = S, 8 = U, 9 = D, 7 = E, 1 = C and 3 = M. What is the code for 'MUTED'?

- A. 38297
- B. 83279
- C. 38729
- D. 38279

14. In a certain code language 'you could go there' is written as 'Ia na pa da' and 'could you come back' is written as 'ha ta da la'. How is 'back' written in that code language?

- A. ha
- B. ta
- C. ha or ta
- D. Data inadequate

15. A three-centimetre cube has been painted red on all its sides. It is cut into one centimetre cubes. How many cubes will be there with only one side painted red ?

- A. 1
- B. 6
- C. 4
- D. 9

16. Although different computers use different processing techniques, the ALU in all computers must be able to

- A. Control the decode
- B. Manage data and the result
- C. Select and interpret instructions
- D. Advance the sequence register

17. In a computer network, information is sent in

- A. Analogous form
- B. Digital form

- C. Hybrid form
- D. Analogous/Digital Form

18. The registered part of a web address is called its

- A. Domain
- B. Identity
- C. Host
- D. Link

19. In which of the following computer languages, binary digits are used to write a program

- A. ADA
- B. Binary language
- C. Machine language
- D. Source language

20. Spams are

- A. E-mails forwarded to hundreds of people
- B. Virus being spread to hundreds of people
- C. Just messages being sent over chats
- D. All of these

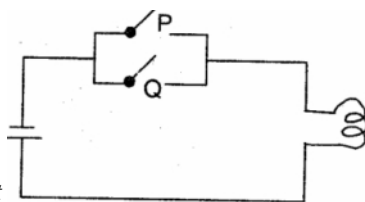
21. Unit for measuring the speed of modem is

- A. Bytes per second
- B. Baud
- C. Bits per second
- D. Both (A) & (C)

22. In a client-server network, the central computer is known as

- A. Server
- B. Client
- C. Hub
- D. Standalone

23. Is the given digital circuit for  $\bar{P} + \bar{Q}$  correct



- A. Yes
- B. No
- C. Can't say
- D. Information is incomplete

24. What do we call a collection of two or more computers that are located within a limited distance of each other and that are connected to each other directly or indirectly?
- A. Internet
  - B. Interanet
  - C. Local area network
  - D. Wide area network
25. A source program in computers is a program
- A. Written in machine language
  - B. Written in high level language
  - C. Understood directly by the computer
  - D. Required to run the computer
26. What does SSL stand for?
- A. Secure Sockets Layer
  - B. System Sockets Layer
  - C. Superuser System Login
  - D. Secure System Login
27. Who is responsible for managing the resources being allocated to internet?
- A. IAB
  - B. IETF
  - C. Inter NIC
  - D. NIC
28. UTP (in terms of transmission media) stands for
- A. Untursted pair
  - B. Unshielded twisted pair
  - C. Untouched twisted pair
  - D. All of these
29. Which one of the following in a text editor is used to produce webpages?
- A. Wordpad
  - B. Notepad
  - C. MS-Word
  - D. All of these
30. In MS-Word, the option which enables us to see the page & its settings before we take the print out
- A. Print preview
  - B. Print layout
  - C. Web layout

D. Normal layout

31. DOS is a

- A. A single user operating system
- B. Multi-user operating system
- C. Single user but multi-programming system
- D. Multi-user and multi-programming system

32. Which character in Microsoft Access indicates the current record?

- A. Pen
- B. Pointer
- C. Eraser
- D. Eraser

33. Coaxial Cables are capable of transmitting digital signals at the rate of

- A. 1 mega bits per second
- B. 100 kilo bits per second
- C. 10 mega bits per second
- D. 100 mega bits per second

34. Output of assembler in machine code is referred to as

- A. Assembly program
- B. Object program
- C. Source program
- D. Macro instructions

35. Pick up the wrong statement about time-sharing systems

- A. Used for different applications
- B. Users get response within 3-5 seconds
- C. Transactions files have to be updated
- D. User can make enquiry only

36. In the following question, arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence. 1. Preach 2. Praise 3. Precinct 4. Precept 5. Precede

- A. 2,1,5,4,3
- B. 2,1,3,4,5
- C. 2,5,1,4,3
- D. 1,2,4,5,3

37. The table shown here contains co-ordinates for two endpoints of circle's diameter. Which of these points is the centre of the circle?

x	y
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2	5
-2	5

- A. (2, 0)
- B. (6, 5)
- C. (1, 5)
- D. (0, 5)

38. In a certain code, "il be pee" means "roses are blue"; "silk hee" means "red flowers" and "pee mit hee" means "flowers are vegetables". How is rose is written in that code

- A. il
- B. pee
- C. be
- D. Can't be determined

39. The number of real roots of the equation  $\frac{A^2}{x} + \frac{B^2}{x-1} = 1$ , where A and B are real numbers not equal to zero simultaneously is \_\_\_\_\_

- A. 1
- B. 2
- C. 3
- D. Can't say

40. The H.C.F. of the function  $x^3+(a+b)x^2+(ab+1)x+b$  and  $x^3+2ax^2+(a^2+1)x+a$  is \_\_\_\_\_

- A.  $x^2+ax+1$
- B.  $x^2+bx+1$
- C.  $x^2+x+a$
- D.  $x^2+x+b$

41. Which is the function described by the table of ordered pairs?

X	Y
-	-
2	1
0	3
3	9
5	1
	3
1	2
0	3

- A.  $y = 2x + 3$
- B.  $y = x \pm 1$
- C.  $y = x + 13$
- D.  $y = 3x$

42. Babul visits Japan and Australia on his vacation. The exchange rates between us states dollars and the currencies of the countries he is visiting are shown in the adjoining figure. When he arrives in Australia, he still has 10,500 Japanese yen . How much is this worth in Australian dollars ?

Currency Exchange Rates	
1 U.S. dollar =	105.5 Japanese yen
1 U.S. dollar =	1.63 Australian dollars

- A. 64.72 Australian dollars
- B. 99.53 Australian dollars
- C. 162.23 Australian dollars
- D. 171.97 Australian dollars

43. A cellular phone company charges monthly rates according to the following plan

- Monthly fee of Rs. 23.95
- The first 100 minutes of calling time are free
- Re. 0.08 charge per minute of calling time over 100 minutes

If  $c$  is the total monthly cost, and  $m$  is the number of minutes of calling time, which equation models this rate plan when  $m$  is greater than 100 minutes?

- A.  $c = 0.08m - 76.05$
- B.  $c = 0.08(m - 100) - 23.95$
- C.  $c = 23.95 + 0.08(m - 100)$
- D.  $c = 23.95 + 0.08m$

44. In a certain code, “il be pee” means “roses are blue”; “silk hee” means “red flowers” and “pee mit hee” means “flowers are vegetables”. How is “red” written in that code?

- A. hee
- B. silk
- C. be
- D. None of these

45. A bird shooter was asked how many birds he had in the bag. He replied that there were all sparrows but six, all pigeons but six, and all ducks but six. How many birds had he in all?

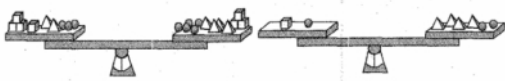
- A. 9
- B. 18
- C. 27
- D. 36

46. The roots of  $(x^2 - 3x + 2)(x)(x - 4) = 0$  are

- A. 4
- B. 0 and 4
- C. 1 and 2
- D. 0, 1, 2, and 4

47. Kumar is using the scale to compare the weight of various solids.





How many spheres will balance one cube?

- A. 2 spheres
- B. 3 spheres
- C. 4 spheres
- D. 5 spheres

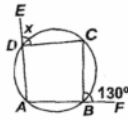
48. If the length of each side of a triangle is cut to  $\frac{1}{3}$  of its original size, what happens to the area of the triangle?

- A. The new area is  $\frac{1}{27}$  of the original area
- B. The new area is  $\frac{1}{9}$  of the original area
- C. The new area is  $\frac{1}{6}$  of the original area
- D. The new area is  $\frac{1}{3}$  of the original area

49. If  $b^2 - 4ac > 0$ , then the roots of  $ax^2 + bx + c = 0$  are

- A. Real and equal
- B. Irrational and equal
- C. Imaginary and unequal
- D. Real and unequal

50. In the adjoining figure; A, B, C, D are the concyclic points. Then the value of x is



- A.  $180^\circ$
- B.  $90^\circ$
- C.  $50^\circ$
- D.  $130^\circ$