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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and online subscription, and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Besides selection for level-3, winner will get merit certificate, medals, educational CDs, laptop, scholarship and other prizes. There is no level 2 in Art, G.K. and Biotech.

Level - 3 : Toppers will qualify# for level 3-International level-where you will compete with students globally. Get selected for EHF's International Olympiad training camp. Only Indian organization giving students exposure to global competitions. Represent India & win laurels. Guidance by top scientists. Prizes ranges from cash (millions of \$), gadgets, foreign trips, publicity, fame, scholarships, Internships, conference participation and more. Level 3 is in Maths, Science & Cyber only.

*# See prospectus/website for details

- You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**. **STUDENTS OF CLASS 1 & 2 HAVE TO UNDERLINE** THE CORRECT ANSWER IN THE QUESTION PAPER ITSELF. THEY ARE NOT REQUIRED TO USE THE RESPONSE SHEET (OMR). THEY HAVE TO FILL THEIR NAME, ROLL NUMBER, CLASS, SCHOOL NAME IN THE SPACE PROVIDED IN THE QUESTION PAPER.
- The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 25 Questions each to be answered in 40 minutes. The Question paper for classes 7 to 12 contains 50 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
- Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER EXCEPT FOR CLASSES 1 AND 2.**

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12
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A1
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THE HARVARD - IIT MATHEMATICS TOURNAMENT

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SECTION -A : MENTAL ABILITY

- Choose the correct alternative that will continue the same pattern.

$$\frac{2}{\sqrt{5}}, \frac{3}{5}, \frac{4}{5\sqrt{5}}, \frac{5}{25}, (\dots)$$

- (1) $\frac{6}{5\sqrt{5}}$ (2) $\frac{6}{25\sqrt{5}}$ (3) $\frac{7}{125}$ (4) None of these

- If MOBILITY is coded as 46293927, then EXAMINATION is coded as

- (1) 45038401854 (2) 56149512965
(3) 57159413955 (4) None of these

- In a certain code language, 'kew xas huma deko' means 'she is eating apples', 'kew tepo qua' means 'she sells toys' and 'sul lim deko' means 'I like apples'. Which word in that language means 'she' and 'apples'?

- (1) xas & deko (2) xas & kew
(3) kew & deko (4) None of these

Directions : Read the information given below and answer the question.

- A, B, C, D, E and F are six members of a family?
 - One couple has parents and their children in the family.
 - A is the son of C and E is the daughter of A.
 - D is the daughter of F who is the mother of E.
- How many female members are there in the family?
(1) Two (2) Three (3) Four (4) None of these

Direction: Study the information given below and answer the question that follow :

A + B means A is the daughter of B; A - B means A is the husband of B; A × B means A is the brother of B.

- If $P + Q - R$, then which of the following is true?
(1) R is the mother of P (2) R is the sister-in-law of P
(3) R is the aunt of P (4) None of these
- Two buses start from the opposite points of a main road, 150 kms apart. The first bus runs for 25 kms and takes a right turn and then runs for 15 kms. It then turns left and runs for another

25 kms and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 35 kms along the main road. What would be the distance between the two buses at this point?

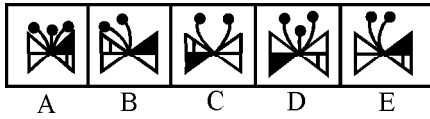
- (1) 65 kms (2) 75 kms (3) 80 kms (4) None of these

7. You are alone in the house and there is quite a danger of thieves around. Just then, you hear a knock at the door. You would:

- (1) open the door to see who is there.
 (2) first peep out from the window to confirm whether you know the person.
 (3) not open the door.
 (4) ask the servant to see who is there.

Direction : In the following question consists of five figure marked A, B, C, D and E called the Problem Figures followed by three other figures marked a, b, and c called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five problem Figures.

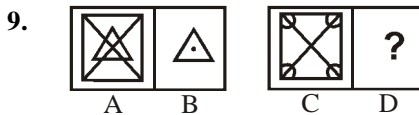
8. Problem Figures



Answer Figures

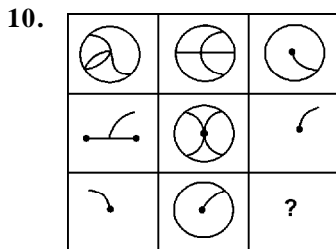
- (1) (2) (3) (4) None of these

Direction : In the given question, there is some relationship between the figures A and B. The same relationship exists between the figure C and one of the three alternatives (1), (2), and (3). Choose that figure alternative.



- (1) (2) (3) (4) None of these

Directions : In the following question find out which of the answer figures (1), (2) and (3) completes the figure - matrix?



- (1) (2)

- (3) (4) None of these

SECTION B : COMPUTER

11. Which of the following statement is true?
 (1) An assembly language programs runs faster than high level programs.
 (2) It is easy to correct or modify machine language programs
 (3) An assembly language program contains more instruction as compared to high level program
 (4) High level language is machine dependent.
12. Which of the following is not a token?
 (1) Keyword (2) Identifiers
 (3) Literal (4) None of these
13. Which tag is used to create a hypertext relationship between the current document and another URL?
 (1) <ISINDEX> (2) <A>
 (3) <P> (4) None of these
14. A host on the internet finds another host by its
 (1) Postal address (2) Electronic address
 (3) IP address (4) None of these
15. In the batch processing environment, data is:
 (1) Entered directly into the computer
 (2) Held in a temporary computer file
 (3) Processed immediately.
 (4) Collected over a period of time
16. The program that controls the execution of application programs and acts as an interface between user of a computer and computer hardware is known as:
 (1) Linker (2) Operating system
 (3) Compiler (4) Text editor
17. Match the following
- | | |
|----------------|---|
| 1. Auto shapes | (A) a term used to refer to horizontal page orientation |
| 2. Pages break | (B) display the top margin |
| 3. Header | (C) it is the point at which one page ends and another begins |
| 4. Landscape | (D) drawing toolbar |
- (1) 2D, 1A, 3B, 4C (2) 3A, 2B, 4C, 1D
 (3) 1D, 2C, 3B, 4A (4) None of these
18. The use of computers in data processing has had several impacts on business. Which of the following is not one of them?
 (1) Easier business growth
 (2) Fewer clerical workers

- (3) Increased data – processing costs
(4) More and better information
19. Which type of network is used in banking sector?
(1) Local area network
(2) Wide area network
(3) Metropolitan area network
(4) None of these
20. It is a graphical device for moving vertical and horizontal through a document with a mouse:
(1) Line break (2) Page break
(3) Drag (4) Scroll bar
21. Arrays are passed as argument to a function by
(1) Value (2) Reference
(3) Both (1) and (2) (4) None of these
22. When one dimensional character array of unspecified length is assigned an initial value?
(1) an arbitrary character is automatically added to the end of the string
(2) '\0' is added at the end of the string
(3) Length of the string is added to the end of the string
(4) None of these
23. Find the invalid statement
(1) Using HTML you can change the colour, size and style of text in your web page.
(2) You can make ordered and non-ordered list in your web page
(3) You can create a block quote to separate a section of text from the rest of text on your web.
(4) None of these.
24. A static variable is
(1) Which cannot be initialized
(2) Which is initialized once at the commencement of execution and cannot be changed at run time
(3) Retain it's value through out the life of the program
(4) Which is same as an automatic variable, but is placed at the head of a program.
25. Which of the following computer is used for weather forecasting?
(1) Hybrid computer (2) Analog computer
(3) Digital computer (4) None of these
26. Which of the following is not Software?
(1) FORTRAN
(2) Compiler
(3) Procedure for inputting data
(4) Integrated circuit
27. A class whose properties are inherited by other classes (its subclasses).
(1) Base class (2) Derived class
(3) Class (4) None of these
28. Which of the following is correct statement in HTML?
(1) `< FONT FACE = "TIMES NEW ROMAN" SIZE=1>`
this is a computer ``
(2) ``
this is a computer``
(3) `< FONT FACE = TIMES NEW ROMAN SIZE= "1">`
this is a computer ``
(4) None of these
29. The backbone of Internet Relay Chat
(1) Internet relay chat (2) Internet relay networks
(3) Internet relay client (4) None of these
30. A certain computer hardware components does not process the data itself but acts as a central nervous system for other data manipulating components. What is it called?
(1) ALU (2) RAM
(3) Control unit (4) Secondary storage
31. A magnetic tape volume that is used on a data processing operation without any change to its content is:
(1) Magnetic disk (2) Punched paper tape
(3) Master tape (4) Card reader
32. Amongst the computer files there is one which is mostly used for maintaining such status information as balances in bank account records, stock on hand balances in inventory records and year to date earning amounts in payroll records .Can you tell the name of the file?
(1) Transaction file (2) Index file
(3) Backup file (4) Master file
33. The process of identifying and correcting mistakes in a computer program is referred to as:
(1) Debugging (2) Desk checking
(3) Validation (4) Verification
34. Which of the following are the backgrounds – related attributes of `<body>` elements?
(1) Background colour (2) Bgcolour
(3) Background (4) None of these
35. When you display your document in Full Screen view
(1) You cannot use the menu or shortcut menu commands
(2) You see the previous page and next page buttons
(3) You add section breaks to your document
(4) None of these
36. In Flowchart of a computer program, symbols are used for indicating certain steps. Can you tell for what purpose the diamond shaped symbol is used?

- (1) Decision making (2) Input /output
 (3) Processing (4) Action flow

37. When you connect to an online information service, you are asked to provide some kind of identification such as your name, an account number and a password .What is the name given to this brief dialogue between you and the information system ?

- (1) Security procedure
 (2) Safeguard procedure
 (3) Identification procedure
 (4) Log – on procedure

38. Which of the following statement is false?

- (1) A process scheduling algorithm is preemptive if the CPU can be forcibly removed from a process
 (2) Time sharing systems generally use preemptive CPU scheduling.
 (3) Response time are more predictable in preemptive systems than in non preemptive systems
 (4) Real time systems generally use nonpreemptive CPU scheduling.

39. Which of the following allows users to specify what the computer is supposed to do rather than how the computer is supposed to do it?

- (1) Non procedural language
 (2) BASIC
 (3) FORTRAN
 (4) COBOL

40. Computer cannot communicate with each other directly over telephone lines because they use digital pulse whereas telephone lines use analog sound frequencies .What is the name of the device which permits digital to analog conversion at the start of a long distance transmission?

- (1) Interface (2) Modem
 (3) Attenuation (4) Teleprocessor

INTERACTIVE SECTION

41. The web server can be addressed by either its domain name or by the address in numerical

- (1) Network host (2) IRC network
 (3) Archie (4) None of these

42. A host on the internet finds another host by its

- (1) TCP/IP (2) Electronic address
 (3) FTP (4) None of these

43. When multidimensional arrays are assigned initial value?

- (1) Rightmost subscript increases most rapidly
 (2) Leftmost subscript increases most rapidly
 (3) Rightmost subscript increases least
 (4) None of these

44.

	A	B	C	D	E	F
1	S.no	item Name	amount	tax	Discount	net amount
2	1	Soap	34	12	10	
3	2	Coldrinks	57	11	5	
4	3	Biscuit	30	3	2	
5	4	Namkeen	63	9	4	
6	5	Pen	102	21	12	
7	6	Fan	478	87	20	
8						

Rahul wants to find out the net amount of his above listed items. He wants to add amount and tax and deduct it from discount. What formula he should use in Cell F2?

- (1) +C2+D2-E2 (2) =SUM(C2-D2)-E2
 (3) +SUM(C2:D2-E2) (4) None of these

45. Special effects used to introduce slides in a presentation are called :

- (1) Effects (2) Custom animations
 (3) Transitions (4) Preset animations

46. What is the common name given to a program written in any one of the high level languages?

- (1) Object program (2) System program
 (3) Source program (4) Compiler program

47. Sorting an array in the ascending order of numbers is the process of

- (1) Putting the largest number first and smallest in the last
 (2) Putting the smallest number first and the largest number in the last
 (3) Putting the numbers in any way you desire
 (4) None of these

48. The main function of the dispatcher (the portion of the process scheduler) is :

- (1) Swapping a process to the disk
 (2) Assigning ready process to the CPU.
 (3) Suspending some of the processes when the CPU load is high
 (4) Bring processes from the disk to the main memory.

49. Data transfer using telephone system is :

- (1) Time division multiplexing
 (2) Space division multiplexing
 (3) Frequency division multiplexing
 (4) All of the above

50. When you insert an excel file into a Word document, the data are?

- (1) Hyperlinked (2) Placed in a word table
 (3) Linked (4) Embedded



END OF THE EXAM