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10. You cannot send out _____ uneducated man into _____ world of technology and expect him to perform.
1] an, an 2] a, an 3] an, the 4] the, an

Directions for Questions 11 to 15: Read the passage and answer the questions that follow on the basis of the information provided in the passage.

A Microprocessor is an electronic computer Central Processing Unit (CPU) made from miniaturized transistors and other circuit elements on a single semiconductor Integrated Circuit (IC). Before the advent of microprocessors, electronic CPUs were made from individual small scale Integrated Circuits containing the equivalent of only a few transistors. By integrating the processor onto one or a very few large-scale Integrated Circuit packages (containing the equivalent of thousands or millions of discrete transistors), the cost of processor power was greatly reduced. The evolution of microprocessors has been known to follow Moore's Law when it comes to steadily increasing performance over the years. This law suggests that the complexity of an Integrated Circuit with respect to minimum component cost will double in about 18 months. From humble beginnings as the drivers for calculators, the continued increase in power has led to the dominance of microprocessors over every other form of computer; every system from the largest mainframes to the smallest handheld computers now uses a microprocessor at their core. As with many advances in technology, the microprocessor was an idea whose time had come. Three projects arguably delivered a complete microprocessor at about the same time: Intel's 4004, Texas Instruments' TMS1000, and Garrett Ai Research's Central Air Data Computer. .

A computer-on-a-chip is a variation of a microprocessor, which combines the microprocessor core (CPU), some memory, and I/O (input/output) lines, all on one chip. The proper meaning of microcomputer is a computer using a (number of) microprocessor(s) as its CPU(s), while the concept of the patent is somewhat more similar to a micro controller.

11. Which of the following descriptions would NOT fit a microprocessor?
1] Electronic computer 2] Central Processing Unit
3] Memory disk 4] A single integrated chip circuit.
12. Select the TRUE statement from the following.
1] Microprocessors and computers on a chip are variations of each other.
2] Integration of processing power on chips has made processing power cheaper.
3] Before microprocessors, CPUs were not made from individual small scale ICs.
4] A microprocessor circuit only has transistors in it.
13. Which of the following was NOT the first to develop a microprocessor?
1] Microsoft 2] Intel 3] Texas Instruments 4] Garret
14. According to the passage, which of these is NOT a use of microprocessors?
1] Drivers for calculators 2] Core for large mainframes
3] Advanced mobile phones 4] Used for small handheld computers
15. "A number of microprocessors at its CPU" is an apt description of a:
1] Micro-controller 2] Micro-computer

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- 3] Micro-processor 4] Micro-transistor

Directions for Questions 16 to 20: Read the passage and answer the questions that follow on the basis of the information provided in the passage.

Dynamic Link Libraries

Windows provides several files called dynamic link libraries (DLLs) that contain collections of software code that perform common functions such as opening or saving a file. When Windows application wants to use one of those functions or routines, the application sends a message to Windows with the names of the DLL file and the function. This procedure is known as calling a function. One of the most frequently used DLLs is Windows COMMDLG.DLL, which includes among others, the functions to display File Open, File Save, Search, and Print dialog boxes. The application also sends any information that the DLL function will need to complete the operation. For example, a program calling the Open File function in COMMDLG.DLL would pass along a file spec, such as *. * or *.DOC, to be displayed in the dialog box's Filename text box. The application also passes along a specification for the type of information it expects the DLL to return to the application when the DLL's work is done. The application, for example, may expect return information in the form of integers, true/false values, or text. Windows passes the responsibility for program execution to the DLL, along with the parameters and the return information the DLL will need. The specific DLL is loaded into memory, and then executed by the processor. At this point the DLL, rather than the application, runs things. The DLL performs all the operations necessary to communicate with Windows and, through Windows, with the PC's hardware. After the DLL function is complete, the DLL puts the return information into memory, where it can be found by the application, and instructs Windows to remove the DLL routine from memory. The application inspects the return information, which usually tells whether the DLL function was able to execute correctly. If the operation was a success, the application continues from where it left off before issuing the function call. If the operation failed, the application displays an error message.

16. By using DLLs, Windows:
- | | |
|--------------------------|-----------------------------------|
| 1] Saves processing time | 2] Multitasks |
| 3] Shares program code | 4] Communicates with PCs hardware |
17. To use any routine of a DLL, Windows:
- 1] Searches and copies it in the application code and executes it
 - 2] Loads the DLL file and searches and executes the routine
 - 3] Loads just the required routine in memory and executes it
 - 4] Searches the location of the routine and instructs the application to execute it
18. Which information does an application need to pass to Windows to use a DLL routine?
- 1] Just the name of the routine
 - 2] Just the name of the DLL, which finds in turn the routine to be executed in return
 - 3] Both the name of the routine as well as DLL and any parameters
 - 4] Name of the DLL, routine, any parameters and type of information to be returned

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19. According to the passage, while the DLL routine is executing, the calling application:
- 1] Waits for the routine to execute
 - 2] Continues with other tasks
 - 3] Helps the DLL routine perform by communicating with Windows and through Windows with the PC's hardware
 - 4] Passes all responsibility of program execution to the DLL and is removed from memory
20. The DLL function after execution returns:
- 1] The parameters and information into memory, where it can be inspected by the calling application
 - 2] Information into memory, where it can be inspected by the calling application
 - 3] To the calling application the information required by it so that it can inspect it
 - 4] The information required into memory so that DLL can inspect whether the function operation was a success

Section 2: Analytical Ability (20 questions)

21. 70 students are required to paint a picture. 52 use green color and some children use red, 38 students use both the colors. How many students use red color?
- 1] 24 2] 42 3] 56 4] 70
22. At an international conference, 100 delegates spoke English, 40 spoke French, and 20 spoke both English and French. How many delegates could speak at least one of these two languages?
- 1] 110 2] 100 3] 140 4] 120
23. A group of 50 students were required to clear 2 tasks, one in rock-climbing and the other in bridge crossing during an adventure sports expedition. 30 students cleared both the tasks. 37 cleared bridge crossing, 38 students cleared rock-climbing. How many students could not clear any task?
- 1] 0 2] 3 3] 5 4] 9
24. A dance instructor conducts annual workshops in which he holds sessions for basic learners and trainers. In a particular year, 2000 people attended the workshop. 1500 participated as learners and 800 as trainers. How many participated as only trainers?
- 1] 200 2] 500 3] 800 4] 1500
25. In a group of 400 readers who read science fiction or literary work or both, 250 read science fiction and 230 read literary work. How many read both science fiction and literary work?
- 1] 80 2] 160 3] 220 4] 400
26. A man said to a lady, "Your mother's husband's sister is my aunt." How is the lady related to the man?
- 1] Daughter 2] Grand daughter 3] Mother 4] Sister
27. A man is facing west. He turns 45 degree in clockwise direction and then another 180 degree in the same direction and then 270 degree in anti-clockwise direction. Which direction is he facing now?

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- 1] South 2] North-West 3] West 4] South-West
28. In a row of 60, if Ram is standing at the position 17th from the first, what is his position from the last?
1] 25 2] 43 3] 44 4] 45
29. A man is facing northwest. He turns 90 degrees in anti clockwise direction and then 135 degrees in anti-clockwise direction. Which direction is he facing now?
1] East 2] West 3] North 4] South
30. There are two pipes in a tank. Pipe A is for filling the tank and Pipe B is for emptying the tank. If A can fill the tank in 10 hours and B can empty the tank in 15 hours then find out how many hours it will take to completely fill a half empty tank?
1] 30 hours 2] 15 hours 3] 20 hours 4] 33.33 hours

Directions for Questions 31 to 35: In the following questions mark:

- 1] if the question can be answered with the help of statement I alone.
2] if the question can be answered with the help of statement II alone.
3] if the question can be answered with the help of both I and II.
4] if the question cannot be answered at all.
31. What is the value of P?
I. P and Q are integers II. $PQ = 10, P + Q = 5$
32. Who got the highest score in the Mathematics examination, among Sumit, Amit and Namit? No two students got the same marks.
I. Sumit got more marks than Namit.
II. Amit did not get lesser marks than Sumit, who did not get lesser marks than Namit.
33. How many hours does it take for some boys and girls in a camp to put up the tent?
I. There are 4 boys and 7 girls.
II. A girl can put up the tent in 5 hours and a boy can put up the tent in 3 hours.
34. If p, q, r, s and t are in an Arithmetic Progression, is r the largest among them?
I. $t > 0$ II. $p, q < 0$
35. Is X a whole number, if $X > 0$?
I. $2X$ is an even number. II. $3X$ is an odd number.

Directions for Questions 36 to 39:

In a certain code, the symbol for 0 (zero) is * and that for 1 is \$. The numbers greater than 1 are to be written only by using the two symbols given above. The value of the symbol for 1 doubles itself every time it shifts one place to the left. (For example, 4 is written as \$**\$; and; 3 is written as \$\$)

36. $11 \times 17 / 10 + 2 \times 5 + 3 / 10$ can also be represented as:
1] \$*\$\$* 2] \$**\$\$ 3] \$\$\$*\$ 4] \$**\$\$

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37. 260 can be represented as:
1] \$****\$** 2] \$\$*\$\$\$\$\$ 3] \$\$*\$\$\$\$** 4] \$*****\$**
38. 60 / 17 can also be represented as:
1] \$\$\$*\$** / \$\$**\$\$ 2] \$\$\$***** / \$\$**\$\$
3] \$*\$*\$** / \$\$**\$\$ 4] \$\$*\$*\$** / \$\$**\$\$
39. \$**\$ can be represented as:
1] \$\$\$ / \$* 2] \$*\$** - \$\$
3] \$*\$*\$ - \$\$ 4] \$\$\$**\$ - \$\$
40. At what time are the hands of a clock together between 2 and 3 p.m.?
1] 2/11 hours past 2 p.m. 2] 2/9 hours past 2 p.m.
3] 2/9 hours past 2 p.m. 4] 2 : 10 p.m.

Section 3: Logical Reasoning (15 questions)

Directions for Questions 41 to 45: Follow the directions given below to answer the questions that follow. Your answer for each question below would be:

- 1] if ALL THREE items given in the question are exactly ALIKE.
2] if only the FIRST and SECOND items are exactly ALIKE.
3] if only the FIRST and THIRD items are exactly ALIKE.
4] if only the SECOND and THIRD items are exactly ALIKE.
41. LLMLLLKLMPUU, LLMLLLKLMPUU, LLMLLLKLMPUU
42. 0452-9858762, 0452-9858762, 0452-9858762
43. NIINIININN, NIININNINN, NIINIININN
44. 4665.8009291, 4665.7999291, 4665.8009291
45. 808088080.8080, 808008080.8080, 808088080.8080
46. If * stands for /, / stands for -, + stands for * and - stands for +, then $9 / 8 * 7 + 5 - 10 = ?$
1] 13.3 2] 10.8 3] 10.7 4] 11.4
47. If * stands for /, / stands for -, + stands for * and - stands for +, then $9 / 15 * 9 + 2 - 9 = ?$
1] 14.7 2] 15.3 3] 14.1 4] 16.2
48. If * stands for /, / stands for -, + stands for * and - stands for +, then which of the following is TRUE?
1] $36 / 12 * 4 + 50 - 8 = -106$ 2] $12 * 8 / 4 + 50 - 8 = 45.5$
3] $36 * 4 / 12 + 36 - 8 = 4.7$ 4] $8 * 36 / 4 + 50 - 8 = 300$

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Directions for Question 49 to 51:

The following letters indicate mathematical operations as indicated below:

A: Addition

V: Equal to

S: Subtraction

W: Greater than

M: Multiplication

X: Less than

D: Division

Out of the four alternatives given in this question, only one is correct according to the above letter symbols. Identify the correct one.

49. 1] 6 S 7 A 2 M 3 W 0 D 7
3] 6 S 7 M 2 S 3 W 0 M 7
- 2] 6 A 7 S 2 M 3 W 0 A 7
4] 6 M 7 S 2 A 3 X 0 D 7
50. If * stands for \times , / stands for \div , + stands for $+$ and - stands for $-$, then which of the following is TRUE?
1] $16 / 8 * 6 + 90 - 12 = 23.2$
3] $16 * 6 / 8 + 16 - 12 = -4.1$
- 2] $8 * 12 / 6 + 90 - 12 = 7.2$
4] $12 * 16 / 6 + 90 - 12 = 8$
51. If * stands for \times , / stands for \div , + stands for $+$ and - stands for $-$, then which of the following is TRUE?
1] $16 * 4 / 18 + 16 - 8 = -10.1$
3] $16 / 18 * 4 + 40 - 8 = 33.2$
- 2] $18 * 8 / 4 + 40 - 8 = -2.8$
4] $8 * 16 / 4 + 40 - 8 = -2$

Directions for Questions 52 to 55: For the post of a manager of a leading call centre - Arkade Inc. - situated in Ludhiana, the following are the criteria the candidate must satisfy:

- The candidate should have a Management Degree.
 - The candidate should have at least 4 years of similar experience at another call center.
 - The candidate should be more than 30 years of age as on the July 1, 2003.
 - The candidate should have 6 months of international exposure, i.e. should have been posted in a foreign country.
 - * If a candidate does not satisfy the 1st condition but has more than 2 years of international experience, then the VP operations, will interview him.
 - * If a candidate does not satisfy the 4th condition, then the HR manager will interview him.
 - * If a candidate satisfies all the 4 conditions then he is recruited.
52. Shakuntala was selected for a managerial position in an international call center after she passed out from AIM Management Institute. After working for 3 years in a call center, she took a sabbatical. She is 29 years of age as on the date of application. She will be:
1] Interviewed only by the HR
3] Rejected
- 2] Interviewed only by the VP
4] Data insufficient
53. Rajiv has been working as a Manager in Zephyr Inc. for 4 years now. He is an Engineering graduate from a premier engineering institute. His certificate lists his date of birth as 17/12/1974. He has worked in the hotel industry at the executive level. He is:
1] Give an aptitude test
3] Data insufficient
- 2] Interviewed by the VP
4] Not considered

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54. Soma has 2 years of experience in Welsh Inc. and 2 years of experience in Franc Inc., both leading call centers abroad, as a manager. She has a management degree from a premier management institution. She turned 30 this December (2002). She is a B.Com Graduate from St. Xavier's, Calcutta. If she applies for the post, she will:
- | | |
|---|----------------------|
| 1] Be interviewed directly by the VP Operations | 2] Not be considered |
| 3] Be interviewed by the HR | 4] Recruited |
55. Salina has over 4 years of experience in Care Touch, a leading call center, as a manager. She completed her MBA from Ranchi and worked in Singapore for UNO for 2 years before joining Care Touch. She will be:
- | | |
|-------------------------------------|----------------------|
| 1] Recruited | 2] Rejected |
| 3] Interviewed by the VP Operations | D) Data insufficient |

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