

Part 1: Multiple Choice Question

Select the best answers from the multiple-choice questions below.

1. What will be the output of the following code snippet?

```
#include <stdio.h>
int solve() {
    int x = 1, y = 2;
    return x > y ? 1: x == y ? 2: 3;
}
int main() {
    int res=solve();
    res=res+2;
    printf("%d",res);
    return 0;
}
```

- a. 2
 - b. 3
 - c. 4
 - d. 5
2. Which of the following is the correct syntax to define a function in C?
- a. function int add(int a, int b) { return a + b; }
 - b. int add(int a, int b) { return a + b; }
 - c. int add(a, b) { return a + b; }
 - d. def int add(int a, int b) { return a + b; }
3. What will be the output of the following code?

```
#include <stdio.h>
int main() {
    int x = 10;
    printf ("%d", x++);
    return 0;
}
```

- a) 10
 - b) 11
 - c) Compiler Error
 - d) Syntax Error
4. What is the purpose of the return statement in the main() function in C?
- a. It displays a message on the screen.
 - b. It indicates successful or unsuccessful program termination.
 - c. It initializes the program's variables.
 - d. It defines the program's entry point.
5. Which of the following SQL statements is used to change data in an existing table row?
- a. ALTER
 - b. UPDATE
 - c. SELECT
 - d. INSERT
6. In MySQL, what is the default sorting order for the ORDER BY clause?

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- a. Ascending (ASC)
 - b. Descending (DESC)
 - c. Random
 - d. Must be defined explicitly
7. What feature in Microsoft Word allows you to automatically create a Table of Contents?
- a. Styles
 - b. Paragraph Formatting
 - c. Citations
 - d. Themes
8. Which of the following is true about printing in Microsoft Word?
- a. You can print only the current page or selection, but not the entire document.
 - b. You can print a document to a PDF file from Word.
 - c. Word only supports printing to local printers.
 - d. You cannot adjust the print quality settings in Word.
9. What is the purpose of the "Find and Replace" feature in MS Word?
- a. To search for a specific word or phrase and replace it with another
 - b. To replace the entire document text with a new one
 - c. To find spelling mistakes
 - d. To find and highlight hyperlinks
10. Which of the following shortcut key pattern is the correct way to add a new page to a document in MS Word?
- a. Press Ctrl + Enter
 - b. Press Alt + Enter
 - c. Press Ctrl + N
 - d. Press Shift + Enter
11. What is the unit of measurement used for resolution in scanning devices?
- a. Pixels
 - b. Megapixels
 - c. DPI (Dots Per Inch)
 - d. PPI (Pixels Per Inch)
12. Which of the following is a valid Excel formula for calculating the sum of values in cells A1 to A10?
- a. =SUM(A1 to A10)
 - b. =SUM(A1:A10)
 - c. =SUM(A1+A10)
 - d. =SUM(A1, A10)
13. In Excel, what is the function of the "CONCATENATE" function?
- a. To calculate the total of a range of cells
 - b. To combine two or more strings of text into one
 - c. To check if a cell contains a specific value
 - d. To extract specific parts of a text string
14. What will be the result of the following formula in Excel if cell A1 contains the value 8?
- =IF(A1 > 10, "Fail", "Pass")
- Where A1 contains the value 8.

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- a. Fail
 - b. Pass
 - c. Reference Error
 - d. Undefined
15. What does the term "IP address" refer to in a computer network?
- a. A password used for network security
 - b. A protocol for establishing communication between devices
 - c. A unique identifier for a computer's location in the network
 - d. A hardware address for network interface cards (NICs)
16. What is the primary function of a router in a network?
- a. To connect devices within the same local network
 - b. To translate domain names to IP addresses
 - c. To forward data packets between different networks
 - d. To provide wireless connectivity to devices
17. Which layer of the OSI model is responsible for ensuring reliable end-to-end communication and error recovery?
- a. Network Layer
 - b. Transport Layer
 - c. Data Link Layer
 - d. Session Layer
18. Which type of memory is used for instant data access by the CPU?
- a. L1 Cache
 - b. L2 Cache
 - c. RAM
 - d. Register
19. Which of the following times is closest to 1 PM?
- a. 11 AM
 - b. 12 AM
 - c. 11:58 AM
 - d. 11:58 PM
20. Blueberries cost more than strawberries. Blueberries cost less than raspberries. Raspberries cost more than strawberries and blueberries. If the first two statements are true, the third statement is:
- a. True
 - b. False
 - c. Uncertain
 - d. The information is incomplete
21. In a group of cows and hens, the number of legs is 14 more than twice the number of heads. The number of cows is
- a. 5
 - b. 7
 - c. 10
 - d. 12
22. The only carbon negative country in world is:

Part 1: Multiple Choice Question

- a. Nepal
 - b. Bhutan
 - c. Switzerland
 - d. Netherland
23. Which component of an operating system is responsible for managing memory?
- a. File system
 - b. Kernel
 - c. Device manager
 - d. Process scheduler
24. Which encryption method is the fastest?
- a. Symmetric
 - b. Asymmetric
 - c. Hashing
 - d. Public-Key
25. The Electronic Transactions Act of Nepal was passed by the government on which date?
- a. July, 2008
 - b. January, 2008
 - c. December, 2008
 - d. April, 2009