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## TOUGH MCQ QUESTION PAPER

### Programming in C — All Units


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### UNIT-I (Basics & Structure) — TOUGH


1. Which statement about C language is MOST accurate?

- A) Pure high-level language
- B) Pure low-level language
- C) Machine dependent language
- D) Middle-level language with low-level features 


2. Which phase produces an object file?

- A) Editing
- B) Compiling 
- C) Linking
- D) Execution


3. Which error is detected by the compiler?

- A) Division by zero
- B) Infinite loop
- C) Missing semicolon 
- D) Wrong output

4. What happens if main() is written as void main()?

- A) Always error
- B) Compiler dependent behavior 
- C) Logical error
- D) Runtime error

5. Which of the following is NOT a valid comment?

- A) // comment
- B) /\* comment /
- C) / nested /\* comment \*/ / 

D) / single line \*/

6. Which header file is NOT mandatory for every C program?

- A) stdio.h
- B) conio.h ☒
- C) stdlib.h
- D) string.h

7. Which is true about keywords?

- A) Can be redefined
- B) Can be used as variables
- C) Fixed meaning to compiler ☒
- D) Can be changed

8. Which variable name is valid but tricky?

- A) int
- B) float
- C) \_sum ☒
- D) 2value

9. Which constant occupies NO memory?

- A) Variable constant
- B) Character constant
- C) Symbolic constant (#define) ☒
- D) String constant

10. Which escape sequence moves cursor to next line?

- A) \t
- B) \b
- C) \n ☒
- D) \r

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11. What is the value of:

```
int a = 5; printf("%d", a++ + ++a);
```

- A) 10
- B) 11
- C) Undefined behavior ☒
- D) 12

12. Which operator has highest precedence?

- A) \*
- B) +
- C) =
- D) () ☒

13. Which condition results in infinite loop?

- A) while(0)
- B) for(i=0;i<0;i++)
- C) do{}while(0);
- D) for(;;) ☒

14. switch statement cannot use

- A) int
- B) char
- C) enum
- D) float ☒

15. What happens if break is missing in switch?

- A) Error
- B) Only one case executes
- C) Fall-through occurs ☒
- D) Program stops

16. Which loop executes at least once?

- A) for
- B) while
- C) do-while ☒
- D) infinite

17. Which operator is used for conditional expression?

- A) :
- B) ?
- C) ?: ☒
- D) if

18. continue in while loop does what?

- A) Terminates loop
- B) Skips current iteration ☒
- C) Restarts program
- D) Stops execution

19. Which is NOT a logical operator?

- A) &&
- B) ||
- C) !
- D) & ☒

20. Which expression always evaluates to TRUE?

- A) 0
- B) -1 ☒
- C) NULL
- D) false

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### UNIT-III (Arrays & Strings) — TOUGH

21. What does a[0] represent?

- A) First element value ☒
- B) Address of array
- C) Last element
- D) Size of array

22. If int a[5];, valid index is

- A) 1 to 5
- B) 0 to 4 ☒
- C) 0 to 5

D) 1 to 4

23. Which statement is true about arrays?

- A) Size can change
- B) Can store mixed data
- C) Stored in contiguous memory ☒
- D) Dynamic by default

24. What is stored in array name?

- A) First element
- B) Last element
- C) Base address ☒
- D) Size

25. 2D array is stored in memory as

- A) Matrix
- B) Column major
- C) Row major ☒
- D) Random

26. String length of "C\0Programming" is

- A) 1 ☒
- B) 12
- C) 13
- D) Error

27. Which function compares strings?

- A) strcpy
- B) strcat
- C) strcmp ☒
- D) strlen

28. strcmp() returns 0 when

- A) First > Second
- B) First < Second
- C) Strings are equal ☒
- D) Always

29. Which function may cause buffer overflow?

- A) fgets
- B) gets() ☒
- C) scanf
- D) puts

30. ASCII value of character '0' is

- A) 0
- B) 30
- C) 48 ☒
- D) 57

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#### UNIT-IV (Pointers & Functions) — TOUGH

31. Pointer variable stores

- A) Value
- B) Data
- C) Address ☒
- D) Instruction

32. Which is correct pointer declaration?

- A) int p\*;
- B) int \*p; ☒
- C) \*int p;
- D) pointer p;

33. What does \*p represent?

- A) Address
- B) Pointer
- C) Value at address ☒
- D) Data type

34. Which operator is used to access value via pointer?

- A) &

- B) %
- C) \* ☒
- D) #

35. Call by value changes

- A) Original variable
- B) Copy of variable ☒
- C) Address
- D) Pointer

36. Call by reference passes

- A) Value
- B) Copy
- C) Address of variable ☒
- D) Constant

37. Which function calls itself?

- A) Inline
- B) Recursive ☒
- C) Library
- D) User-defined

38. Recursion must have

- A) goto
- B) loop
- C) stopping condition ☒
- D) pointer

39. Which uses more memory?

- A) Loop
- B) Recursion ☒
- C) if
- D) switch

40. Which is true about pointers?

- A) Increase memory waste
- B) Reduce performance
- C) Enable dynamic memory & efficiency ☒

D) Only store integers

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