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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:

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