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B.Sc.(Part-I) (Sem-I) Question Bank
Problem Solving Using Computers

## Q1A) Multiple Choice Questions (10 questions for 1 mark each)

1) Which of the following language is the predecessor to C Programming Language?
A)  A               B) B                    C) BCPL                D) C++

2) C programming language was developed by
A) Dennis Ritchie       B) Ken Thompson            C) Bill Gates      D) Peter Norton

3) C language is available for which of the following Operating Systems?
A) DOS           B) Windows        C) Unix             D) All of these

4) Which of the following symbol is used to denote a pre-processor statement?
A) !                    B) #                C)  ~                   D) ;

5) Which of the following are tokens in C?
A) Keywords         B) Variables            C) Constants            D) All of the above

6) What is the valid range of numbers for int type of data?
A) 0 to 256        B) -32768 to +32767     C) -65536 to +65536        D) No specific range

7) Which escape character can be used to beep from speaker in C?
A) \a                  B) \b                   C) \m                   D) \n

8) Character constants should be enclosed between ___
A) Single quotes        B) Double quotes     C) Both a and  b        D) None of these

9) Linux operating system was developed by_____ year
    A)          1972 B)          1990  C)          2001    D)          1991

10) who is developed in Linux(Ubunto) operating system.
A) Linus  Torvalds            B) James Gosling    C) Bill Gates       D) Rasmus Lerdorf

11) ---- is procedure or step by step process for solving a problem.
A) Algorithm        B) Flowchart               C) Pseudocode           D) All of these

12)  All keywords in C are in _____
A) LowerCase letters                       B) UpperCase letters
C) CamelCase letters                       D) None of the mentioned

13) C is a ___ language
   A) High Level  B) Low Level   C) Middle Level    D) Machine Level

14) The equality operator is represented by
A)  :=              B) .EQ.          C) =              D) ==

15) Which of the following operator has the highest precedence?
A) *            B) ==        C) =>            D) +

16) Header files in C contain
A) Compiler commands                      B) Library functions
C) Header information of C programs        D) Operators for files

17) Which pair of functions below are used for single character I/O.
A) Getchar() and putchar()                B) Scanf() and printf()
C) Input() and output()                   D) None of these

18) Null character is represented by
A) \n                      B) \0                      C) \o                      D) \e

19) Which header file is essential for using strcmp() function?
A) string.h          B) strings.h                C) text.h                D) strcmp.h

20) C supports how many basic looping constructs
A) 2                      B) 3                C)4                D)5

21)Which among the following is an unconditional control structure
A) do-while          B) if-else              C) goto                D) for

21)  Continue statement is used
A) to go to the next iteration in a loop                B) come out of a loop
C) exit and return to the main function
 D) restarts iterations from the beginning of the loop

22) A multidimensional array can be expressed in terms of
A) array of pointers rather than as pointers to a group of a contiguous array
B) array without the group of a contiguous array
C) data type arrays                      D) None of these

23) If the size of the array is less than the number of initializers then,
A) Extra values are being ignored                B) Generates an error message

C) Size of Array is increased                    D) Size is neglected when values are given

24) Array subscripts in C always start at
A) -1             B) 1             C) 0             D) Value provided by the user

25) If the size of the array is less than the number of initializers then,
A) Extra values are being ignored          B) Generates an error message
C) Size of Array is increased              C) Size is neglected when values are given


26) A "switch" statement is used to:
A) Switch between user-defined functions in a program
B) Switch from one variable to another variable
C) Jump from one place to another in a program.        D) None of these.

27)Consider the foll statement: "using C language programmers can write their own library functions".
A) True             B) False             C) Maybe          D) None of these

28) C is a _____ level programming language?
A) Low        B) High             C) Middle          D) None of these.

29) A function is a subroutine that may include one or more _____ designed to perform a specific task.
A) Functions             B) Statements          C) Libraries          D) Data types.


30) What is used as a terminator in C?
A)?                     B);                     C):                     D) _
31) Which function is necessary to exist in each & every program?
A) Void          B) sum             C) main             D) None of these

31) What is the control character for "a single character".
A) %c             B) %d             C) %i             D) %p


32) What is the control character for "a decimal integer".
A) %c             B) %d             C) %i             D) %p


33) C supports the _____ statement to branch unconditionally from one point to another in the program.
A) Continue          B) goto             C) break             D) for
34 )The _____ is used to break out of the case statements.
A) Continue          B) break             C) default          D) case

35) Strings are nothing but —— arrays
A) **character**          B) integer          C) floating point     D) both c and b

36) Which format specifies is used to print the values of double type variable
   A) %If          B) %Id          C) %Iu          D) %f

37) C Language developed at_____
A) AT &T's Bell Laboratories of USA in 1972
B) AT &T's Bell Laboratories of USA in 1970
C) Sun Microsystems in 1973          D) Cambridge University in 972.

38) The acronym ANSI stands for
   A) American National Standards International   B) American National Standards Instructions
   C) American National Standards Institute       D) American National Software Incorporation

39) The Library functions used for _____ are kept in the header file called stdio.h.
   A) I/O purpose                               B) Mathematical functions
   C) Keywords                                  D) Functions

40) C language is available for which of the following Operating Systems?
    A) DOS    B) Windows    C) Unix     D) All of these

41) C is _____ type of programming language?
   A) Object Oriented        B) Procedural        C) Bit level language        D) Functional

42) What will be the maximum size of a float variable?
    A) 1 byte                    B) 2 bytes                C) 4 bytes                D) 8 bytes

43) An Ampersand before the name of a variable denotes
    A) Actual Value          B) Variable Name          C) Address                D) Data Type

44) 15. Which of the following is invalid?
A) ''                    B) ""                        C) 'a'                    D) 'abs'

45) The size of a String variable is
A) 1 byte                    B) 8 bytes                C) 16 bytes                D) None of these

46) Which of the following operator has the highest precedence?
A) *                    B) ==                        C) =>                    D) +

47) Integer Division results in
A) Rounding the fractional part                B) Truncating the fractional part
C) Floating value                              D) An Error is generated

48) . Identify the wrong statement
A) putchar(65)          B) putchar('x')          C) putchar("x")          D) putchar('\n')

49) A statement differs from expression by terminating with  a
A) ;                    B) :                     C) NULL                  D) .

50) What is the answer of: 7%3
A) 2.5                  B) 1                     C) 2                     D) 3

## Q2) Write Broad answer question(any two).

1) Explain the Concept of problem solving method.

2) What is mean array? Explain the types of array.

3) Write the looping statements

4) What is mean by Linux Operating    system?

5) Write the Input/output statement.

6) What is Decision Making? Explain the if ladder statement.

7) Explain the Data types and variables.

8) What is mean by Algorithm? Give the example area of circle.

9) Write the GCC Compiler.

10) Write the Format Specifier  and  Escape Sequences.

## Q3) Write short answer question (any five).

1) Explain the types of errors.

2) Write the Vi Editor.

3) Explain the for loop.

4) Write the Single-Dimensional Array.

5) Write the switch statement.

6) Explain the structure of 'C'.

7) What is mean by While loop? Give the example.

8) Write the History of 'C'.

9) Explain D0-While loop.

10) What is mean by array?

11) Write the Variable.

12) Explain GCC Compiler.

13) Write Input/output Statement.

14) Explain Nested if-else statement.

15) What is mean Algorithm?

16) Write the initialization and declaration of Array.

17) Write the Infinite Loop.

18) Explain the error types.

19) Write the program of factorial number.

20) Write the program of displaying day  using switch statement.