BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Tech.(ECE)-2019
Course Name – Programming for Problem Solving
Course Code - ESC(ECE)201
(Semester II)

Full Marks : 60   **Time : 2:30 Hours**
[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A
(Multiple Choice Type Question)   1 x 15=15

1. *Choose the correct alternative from the following :*

(i) Choose from following which is true about FILE *fp

   a) FILE is a structure and fp is a pointer to the structure of FILE type
   b) FILE is a buffered stream
   c) FILE is a streamow
   d) FILE is a keyword in C for representing files and fp is a variable of FILE type.

(ii) Select the meaning of the Expression x+=5

   a) x=x+x
   b) x=x+5
   c) x+5
   d) x+5=x

(iii) Choose the correct statement about structure in C

   a) It is user defined
   b) It is pre-defined
   c) It is library defined
   d) None

(iv) Select an example of post decrement

   a) w++
   b) ++w
   c) w--
   d) --w

(v) Select the loop where the statements are executed at first then checking condition.

   a) do-while loop
   b) while loop
   c) for loop
   d) None

(vi) Which of the following best explains the use of continue keyword

   a) Terminate the loop
   b) Terminate the program
   c) Terminate the current iteration and move to next iteration
   d) Restart iteration from the very first iteration

(vii) Select the correct symbol for taking input in the flowchart

   a) Square
   b) Circle
   c) Parallelogram
   d) Rectangle

(viii) Select the correct option to comment out single-line.

   a) /* */
   b) //
   c) * *\\
   d) \\\\

(ix) Select the size of data type double in bytes

    a) 8   b) 2
    c) 3   d) 4

(x) Pointers are used to develop

    a) Value   b) Data
    c) Information   d) Address

(xi) Select the secondary memory from the following

    a) RAM   b) Hard Disk
    c) SRAM   d) DRAM

(xii) Choose the correct statement for the declaration - int *ptr, p;

    a) ptr is a pointer variable, p is a normal variable   b) both ptr and p are normal variables

    c) both ptr and p are pointer variables   d) ptr is a normal variable, p is a pointer variable

(xiii) Choose the appropriate when inputs are given during runtime of a C program.

    a) Function arguments   b) Formal arguments
    c) Actual arguments   d) Command line arguments

(xiv) Select the full form of stdio header file

    a) standard input outpu   b) standard image output
    c) standard input out   d) standard in out

(xv) Identify the conditional operator from the following

    a) +   b) =
    c) >   d) ?:

Group-B
(Short Answer Type Questions)   3 x 5=15

2. Describe syntax errors with an example.   (3)
3. Write the flowchart to calculate the average of two numbers.   (3)
4. Write the difference between i++ and ++i.   (3)
5. State the advantages of user defined functions..   (3)
6. Explain with a proper example how you close a file in C.   (3)

OR

    Classify User defined datatype.   (3)

Group-C
(Long Answer Type Questions)   5 x 6=30

7. Define Bit Wise Operator with an example.   (5)
8. Write a C program to find the greatest among two numbers using a conditional operator.   (5)
9. Distinguish among while loop and Do while loop.   (5)
10. Explain the operations of the Exit control loop with a flowchart.   (5)
11. Write a program to read data from a file in C.   (5)
12. Reframe a program to Copy data from a file to another file in C.   (5)

OR

    Compare between write mode and append mode in File Handling in C. Justify your answer with a program.   (5)

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