



BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Tech.(ECE)-2019

Course Name – Programming for Problem Solving

Course Code - ESC(ECE)201

(Semester II)

LIBRARY
Brainware University
Barasat, Kolkata -700125

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) <code>/* */</code> | b) <code>//</code> |
| c) <code>* *\</code> | d) <code>\\ \\</code> |

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(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 output
- 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)
