

Roll No.:

Total No. of Questions : 11] [Total No. of Printed Pages : 6

AS-470

**M.Sc. (Maths) II Semester
(Reg./Pvt./ATKT) Examination July 2019**

**PROGRAMMING IN "C"
(THEORY & PRACTICAL)**

Paper - V (iii)

**Time Allowed : Three Hours] [Maximum Marks : { Reg.-85
Pvt.-100**

Note : Attempt all the questions.

Section - A

Q.1. Objective type questions

- i) ____ is used to convert low level language to high level language.
- (a) Assembler
 - (b) Compiler
 - (c) Both (a) & (b)
 - (d) None of these

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(2)

- ii) How many bytes of memory occupies by the long int variable:
- (a) 4 byte
 - (b) 2 byte
 - (c) 8 byte
 - (d) None of these
- iii) Which of the following statements provides a means of immediately terminating the execution of a loop?
- (a) Return
 - (b) Go to
 - (c) Else
 - (d) Break
- iv) Collection of different data types is called-
- (a) Structure
 - (b) Array
 - (c) Loops
 - (d) None of these

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Contd...

(3)

- v) An array can be initialized at ____
- (a) Compile time
 - (b) Run time
 - (c) Both (a) & (b)
 - (d) None of these

Section - B

Short Answer Type Questions

- Q.2. Give differences between compiler, Interpreter and Assembler.

OR

Discuss the use of flowchart and their symbols with suitable example.

- Q.3. Define constants. Discuss the types of constants.

OR

Explain the # include directive.

- Q.4. What is the use of conditional operators? Explain it with suitable example.

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(4)

OR

WAP to find factorial of a given number.

- Q.5. Differentiate between while loop & do - while loop.

OR

What is switch statement? Explain with appropriate example.

- Q.6. What is the use of structure? Explain.

OR

How union is different from structure.

Section - C

Long Answer Type Questions

- Q.7. Discuss the structure of C program with suitable example. And also write the features of C language.

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Contd...

(5)

Write the features and drawbacks of the following languages -

- a) Low level
- b) Assembly language
- c) High level language

Q.8. Explain the different data types used in C programming.

OR

Program to generate fibonacci series.

Q.9. What is operators? Describe Arithmetic, Assignment and relational operations with examples.

OR

What do you mean by Nested if - else. Explain with suitable example.

Q.10. Describe loops and their types with suitable examples of each.

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(6)

OR

Discuss the following statements with example:-

- a) Break
- b) Continue

Q.11. What do you mean by Array? Explain 2D array with example.

OR

Write a program to insert 10 elements in an array and display them.



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