

Roll No. Total No. of Printed Pages : 3

Code No. : B04-303

Fourth Semester Online Examination, May-June, 2022

M. Sc. MATHEMATICS

Paper III

PROGRAMMING IN 'C' (WITH ANSI FEATURES)

Time : Three Hours] [Maximum Marks : 80

Note : • Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.

• Part C (Short answer type) and D (Long answer type) of each question should be answered within the word limit 200-250 and 400-450 words.

Unit-I

1. (A) Define storage classes within two sentences. 2
- (B) Write the type of dynamic memory. 2
- (C) Explain local and global variable with the help of examples. 4

Or

Describe semantics.

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- (D) Describe four memory allocation functions in detail. 12

Or

Write any two rules for syntax related to ANSI and use those rules in the program.

Unit-II

2. (A) What is Array ? 2
- (B) Write the syntax for string. 2
- (C) Explain array of pointer with the help of example. 4

Or

Write a program for selection sorting algorithm.

- (D) Explain any five string manipulation functions. 12

Or

Write a program to swap two numbers using call by value or call by reference.

Unit-III

3. (A) What is meant by recursion ? 2
- (B) Write the syntax for simple macro substitution. 2

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(C) What is function ? How arguments can pass into function ? Explain with example. 4

Or

Explain line control with example.

(D) What do you mean by macro expansion ? Write a program to find out the area of a circle using macro with arguments. 12

Or

Explain the role of main function in the program.

Unit-IV

4. (A) What is structure ? 2
(B) Write the syntax for < stdio.h >. 2
(C) Explain error handling. 4

Or

Explain enum declarations.

(D) Explain in detail input and output streams.

Or

What is a file ? Write a program to copy the content of the file to another using file.

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