

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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**Bachelor of Arts (FYUP) 2nd Semester
(2055)**

COMPUTER SCIENCE

Paper : Programming in C

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :— Attempt **one** question each from Sections A, B, C and D.
Question No. 9 (Section E) is compulsory question.

SECTION—A

1. What do you understand by constants and variables in C language ? Discuss rules for constructing Constants and Variables in detail. 9
2. What are various types of operators in C language ? Discuss each in detail. 9

SECTION—B

3. What are various loop control statements in C language ? Discuss structure of each. Write a program in C language to find sum of first N prime numbers. 9
4. What are various methods of passing the parameters to functions ? Discuss each with example of a program in C language to print factorial of a given number. 9

SECTION—C

5. Consider the following statements and indicate which of them is/are correct ? Also give example to prove your answer :
- (i) Comparing two pointers is a valid operation.
 - (ii) Adding a pointer with a positive or negative number is a valid operation.
 - (iii) Adding two pointers is a valid operation. 9
6. Discuss the differences between a one-dimensional array and a two-dimensional array in C language. Write a program in C language to multiply two matrices. 9

SECTION—D

7. What are differences between character array and strings ? Discuss the meaning and working of any four string handling functions with example. 9
8. What is a structure variable ? Write a structure specification in C language called "cricketer" that has the following information :

Player name, age, team name, batting average and bowling average.

Now write a program in C language to enter data for 11 players and calculate average age of players. 9

SECTION—E

(Compulsory Question)

9. (a) Write a short note on Testing and Debugging. 2
- (b) What are rules of using Switch statement ? 2
- (c) Write a short note on Array of Pointers. 2
- (d) Write a short note on Register storage class in C language. 3