

- (i) Printed Pages : 2 Roll No.
- (ii) Questions : 9 Sub. Code :

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- Exam. Code :

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B.A./B.Sc. (General) 2nd Semester
(2054)
COMPUTER SCIENCE
Paper-CS04-Theory-B : C Programming

Time Allowed : Three Hours] [Maximum Marks : 30

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

SECTION—A

1. Define Decision Table. Make a Decision Table for any problem of your choice. 6
2. What do you understand by Constants and Variables in C language? What are various rules for constructing Variables? 6

SECTION—B

3. What are various types of operators in C language ? Discuss in detail. 6
4. Explain the If statement in the C programming language. Discuss its syntax, typical use cases, and any variations or enhancements it may have. Explain with examples. 6

SECTION—C

5. Discuss the difference between function declaration and function definition in C language. Write a program in C language using functions to print first 10 prime numbers. 6
6. Discuss the difference between a One-dimensional array and a Two-dimensional array in C. Provide examples to illustrate both types. 6

SECTION—D

7. Discuss the concept of string input and output in C. Explain how strings can be read from standard input and written to standard output using library functions. 6
8. Describe the syntax for declaring and defining structures in C. Include details about specifying structure members and initializing structure variables. 6

SECTION—E (Compulsory Question)

9. (a) Write a short note on data types in C language. 1.5
- (b) What are rules of using switch statement ? 1.5
- (c) What do you understand by static storage class ? 1.5
- (d) Differentiate between Structure and Union. 1.5