

Register Number :

Name of the Candidate :

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B.E. DEGREE EXAMINATION, 2008

(COMPUTER SCIENCE AND ENGINEERING)

(THIRD SEMESTER)

COEC - 305. C-LANGUAGE

May]

[Time : 3 Hours

Maximum : 60 Marks

Answer any ONE full question from each unit.

All question carry equal marks.

UNIT - I

1. (a) What are the 'C' character set ? (4)
- (b) Explain relational and logical operators, with examples for illustration. (8)
2. (a) What are library functions ? Explain few of them. (6)
- (b) Explain the I/O statements in 'C'. (6)

Turn over

UNIT - II

3. (a) Explain the syntax for

(i) WHILE

(ii) DO WHILE statements.

How do you determine how many times the loop gets executed ? (8)

(b) What are storage classes ? Explain. (4)

4. (a) Distinguish between if-else and switch statements. (6)

(b) Explain the format of a function. How do you pass parameters to function ? (6)

UNIT - III

5. (a) How do you declare an *n*-dimensional array and initialized ? (6)

(b) How strings are handled in C ? What library functions are in use for string manipulation ? (6)

6. (a) How do you pass an array to a function ? (6)

(b) Write a C program for adding the given two matrices. (6)

UNIT - IV

7. (a) What is a structure ? How does it differ from a union ? (4)

(b) Write a C program to read the marks of 100 students in 6 subjects from a file and declare them the result. The criteria for pass is, in all the subjects, they should score 50 marks. (8)

8. (a) What are self referential structure ? (4)

(b) Discuss open, close, file operations. Write a program for find the roots of 50 quadrate equations. (8)

UNIT - V

9. Describe how Assembly language printer is used for string manipulations. (12)

10. Write briefly on how assembly language program is interfaced to C. Provide example for illustration. (12)