

Code: 13A12101

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# B.Tech I Year (R13) Supplementary Examinations June 2016 **PROGRAMMING IN C & DATA STRUCTURES**

(Common to CE, ME, EEE, ECE, EIE and IT)

Max. Marks: 70

Time: 3 hours

1

PART – A

(Compulsory Question)

- Answer the following: (10 X 02 = 20 Marks)
  - (a) Write about structure of C program?
- (b) Draw flowchart to find whether the sum of 2 numbers is odd or even.

(c) Write a note on difference between break and continue statements.

- (d) Write the difference between while and do-while statements.
- (e) Write four types of storage classes.
- (f) What is binary search?
- (g) Write the disadvantage of pointers.
- (h) Write operations on files.
- (i) Write difference between structure and union.
- (j) What is circular queue?

### PART – B

(Answer all five units, 5 X 10 = 50 Marks)

#### UNIT - I

2 What is operator? Explain different operators with examples.

#### OR

3 Write about built-in, derived, user-defind and void data types.

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4 Write about categories of functions with examples.

## OR

5 Write a c program to find the *greatest* of given 3 numbers using else – if ladder.

## UNIT - III

6 Write about string manipulations functions available in C with examples.

#### OR

7 What is 2D array? Write program for addition of 2 matrices.

## UNIT - IV

- 8 Explain structure declaration in C. How we can use different Ways of declaring Structure using Typedef? OR
- 9 Write about dynamic memory management functions in C.

## UNIT - V

10 Define stacks and explain stack implementation concepts using arrays.

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11 Write a suitable program to implement Single linked list.

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