Code No: 132AD

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech I Year II Semester Examinations, April - 2018
COMPUTER PROGRAMMING IN C
(Common to EEE, ECE, CSE, EIE, IT, ETM)

Time: 3 hours   Max. Marks: 75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each
question carries 10 marks and may have a, b, c as sub questions.

PART- A

(25 Marks)

1.a)	What are flowchart symbols? Explain.	[2]
b)	Explain the syntax of case statement with example.	[3]
c)	What are limitations of recursion?	[2]
d)	Explain the procedure for Binary search.	[3]
e)	Give an example for pointers to pointers.	[2]
f)	What are string functions? Explain.	[3]
g)	Define structure with example.	[2]
h)	What is self referential structure? Explain.	[3]
i)	Write the concept of a file.	[2]
j)	Explain about file status functions.	[3]

PART-B

(50 Marks)

2.a)	Write a C program to generate Fibonacci series.	
b)	What are operators in C? Explain with example.	[5+5]

OR

3.a)	Explain about decision making and branching.	
b)	Describe the structure of a C program.	[5+5]

4.a)	Write a C program for Bubble sort.	
b)	What are storage classes? Explain with examples.	[5+5]

OR

5.a)	What is recursion? Write a C program for factorial of n using recursion.	
b)	Write a C program for addition of two matrices.	[5+5]

6.a)	Write a C program to count the number of vowels, consonants, digits and white-spaces in a string which is entered by the user.	
b)	Explain about pointer arithmetic and arrays with example.	[5+5]

OR

7.a)	Write a C program to sort the 10 strings (entered by the user) in lexicographical order (dictionary order).	
b)	Explain about arrays of pointers with example.	[5+5]

8.a) Write a C program that takes two complex numbers as structures and adds them with the use of functions.

b) Explain about pointers to structures with example. [5+5]

OR

9.a) Explain about pre-processor commands.

b) Explain about unions and functions. [5+5]

10.a) Write a C program to copy the content from one file to another file using fseek( ) function.

b) Write a C program to copy the binary file from another file. [5+5]

OR

11.a) Write a C program read and write the content of the file using fprintf( ) and fscanf( ) functions.

b) Briefly explain about positioning functions in files. [5+5]

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