R16

Max. Marks: 75

Code No: 132AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year II Semester Examinations, July/ August - 2021 COMPUTER PROGRAMMING IN C (Common to EFE_ECE_CSE_EIE_IT_ETM)

(Common to EEE, ECE, CSE, EIE, IT, ETM)
Time: 3 Hours

Answer any five questions All questions carry equal marks

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1.a)	What are the steps in program development?	[7 + 0]
b)	Write an algorithm to check whether a given number is prime or not.	[7+8]
2.	What are the various data types? Give its size and the need for type casting.	[15]
3.a)	What are the four storage classes? Discuss their scope rules.	
b)	How upward communication is possible among functions?	[8+7]
4.a)	Draw a flowchart for bubble sort.	
b)	How to pass an array, an element of an array as a parameter to a function?	[8+7]
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5.	What is meant by dynamic memory management? How C language	supports
	programmers in memory management? Explain with relevant code segments.	[15]
6.a)	Write a C program for converting an array of alphabet from lowercase to uppercase.	
b)	Write a C program to illustrate the use of indirection operator to access the value	pointed
	by a pointer.	[8+7]
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7.a)	Is union preferred over structures by good programmers? Justify your answer.	
b)	What is the need of enumerated data types?	[7+8]
8.a)	Differentiate between text files and binary files.	
b)	Demonstrate the use of fread() and fclose() functions.	[7+8]

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