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FIRST SEMESTER

MID SEMESTER EXAMINATION

Roll No. 2 1219/ B1/65

B.Tech.(B Group)

September-2019

CO-101 Programming Fundamentals

Time: 1:30 Hours	Max. Marks: 30
Note: Answer all five questions. All questions carry equal marks. Assume suitable missing data, if any. Give suitable examples wherever applicable	
Q1 (a) Draw flow chart to find the sum of the all prime numb	ers between 235 and
335. What are the characteristics of a good algorithm?	3
What is the relationship between formal arguments a	nd actual arguments?
How they can be declared within a function? Give relevan	nt code. 3
(c) Explain tokens in C. main belongs to which token?	2
Q2. (a) What will be the output of the following, justify your Void main() {int i=5, j= 6, z printf("%d", i+++j); }	answer 2
(i) Write a program in C to get a number from user and to (i) write in words (ii) check for Armstrong (Number et al. (iii) print reverse (iv) print sum of digits	d to sund the cub
Ø3. (a) What is an operator? What are the different types of of the steps in solving any expression having different/multip Solve k = 5 > j > 2. What will be the value of k for j=2,3,4,5?	ple operators?
with steps. (b) What is the relationship between formal arguments ar arguments? How they can be declared within a function? example.	

Q4/(a) Write the guidelines, explain the syntax with examples to use printf() function in C language. What is the output of the following printf("%6.3f. %13.4f, %-8.6g %7.2e",x,x,x,x) where x = 43.2345 . 5 (b) convert (show steps used for conversion) (i) (213)10 = (.)8 = (.)16. = (.)2 (ii) (AA)16 = (.)10. = (.)8. =. (.)2. Q4. (a) Write a C program that accepts n numbers from user, prints square of each number except when input is 5 and exit when entered 0 by the user. 3 (b) explain syntax of switch statement 1 (c) Write short notes

(i) static

(ii) Recursion

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