Hall Ticket Number :

Code: 7P2B12

R-17

M.C.A. I Semester Supplementary Examinations January 2020
Problem solving with 'C'

Max. Marks: 60   Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)

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UNIT–I

1. a) Define Operator? Discuss operator precedence and associativity   6M

 b) What is ternary Operator? Write a program to find the largest of the two numbers using ternary operator   6M

OR

2. a) Compare and contrast the difference between automatic and static storage class.   6M

 b) Write the structure of the C Program and Explain?   6M

UNIT–II

3. a) Explain formatted input / output functions used in the C program with examples   6M

 b) A farm produces several food grains, namely wheat, barley, oats and flax. The monthly production details (in Kg) and price per Kg (in INR) received during the year are recorded. Read the production details and price of the food grains and print its details through your C program   6M

OR

4. a) Explain different types of branching statements in C with an example   6M

 b) Discuss the break and continue statements with an examples   6M

UNIT–III

5. a) Write different string handling functions in C with examples   8M

 b) Write a program to check whether the given string is a palindrome or not using built in functions   4M

OR

6. a) Explain different types of arrays in C   6M

 b) Write a program to store and print the elements in a two dimensional array using while or do-while   6M

UNIT–IV

7. a) Define structure? Write the differences between arrays and structures   6M

 b) **Mr. John runs a pizza-analysis service. For each pizza, he needs to record the following information:** The name of the pizza company, which can consist of more than one word, The weight of the pizza(in gms), price of the pizza d**evise a structure in C that can hold this information and write a program to get the information about pizza from the user and then it should display the pizza details.**   6M

OR

8. a) What is modularity? How modularity is implemented in C functions?   6M

 b) Define function? Write its advantages and disadvantages   6M

UNIT–V

9. Discuss different file handling functions in C   12M

OR

10. a) What is pointer? Explain pointer to a pointer with an example   6M

 b) Write a program to allocate and release the memory dynamically   6M

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		CO	Blooms Level
1.	a)	CO1	L2
	b)	CO1	L3
2.	a)	CO3	L3
	b)	CO2	L2
3.	a)	CO2	L2
	b)	CO2	L4
4.	a)	CO1	L2
	b)	CO1	L3
5.	a)	CO4	L2
	b)	CO4	L3
6.	a)	CO3	L2
	b)	CO4	L3
7.	a)	CO3	L3
	b)	CO2	L4
8.	a)	CO4	L2
	b)	CO4	L2
9.		CO5	L2
10.	a)	CO5	L2
	b)	CO5	L3