(Autonomous Institution – UGC, Govt. of India) UG Model question paper CP with C

Time: 3 hours Max Marks: 70

Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks.

SECTION-I	
1 a)Write about different types of operators	[10M]
b) Explain Entry control loop and Exit control loop	[4M]
OR	
2 a)Define algorithm and write its properties	[4M]
b) Explain about type conversions with example	[5M]
c)Write about Software development life cycle	[5M]
SECTION-II	
3 a)Define function . Explain categories of functions with example programs .	[7M]
b)Describe parameter passing method with example program.	[7M]
OR	
4 a) List out different types of storage classes	[7M]
b) Define recursion. Write a C program to find factorial of a number using recursive	
function.	[4M]
c) Explain Preprocessor commands in C SECTION-III	[3M]
5 a)Definearray.Declare an array and initialize it.Write about applications of array.	[5M]
b) Explain about types of array with example programs	[5M]
c)Write a C program to perform multiplication of two matrices.	[4M]
OR	. ,
6 a)Definestring.Write about string I/O functions with examples	[7M]
b) Explain different string manipulation functions with examples	[7M]
SECTION-IV	
7 a)Definepointer.write a C program on pointer to pointer	[5M]
b) What is void pointer?explainit.Write the uses of pointer.	[5M]
c)Write a program on pointer arithmetic	[4M]
OR 8 a)Describe about Dynamic memory allocation with its functions	[7M]
b) Explain about pointer and functions	[7M]
by Explain about pointer and ranctions	[, 1.1]
SECTION-V	
9 a)Definestructure.Write a C program on structure with in structure	[3M]
b) Compare structure and union and write a program on each	[7M]
c)Explaintypedef with example program OR	[4M]
10 a)Define file. Differentiate text file and binary file.	[7M]
b) Clearly explain error handling functions	[5M]
c)Write syntax for opening a file and closing a file.	[2M]

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Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks.

CECTION	
SECTION-I	F 4 N 47
1 a) Write a short-note on Computing Environments	[4 M]
b) Differentiate Type casting and co-ercion	[2 M]
c) Explain operator precedence and associativity OR	[8 M]
2 a) State the program development steps	[3 M]
b) Differentiate entry-controlled-loop and exit-controlled-loop	[3 M]
c) Write a C program to find arithmetic operations using switch statement	[8 M]
c) write a c program to find aritimizate operations using switch statement	[O I·I]
SECTION-II	
3 a) What is meant by inter function communication?	[7 M]
b) List out the different types of storage classes and explain.	[7 M]
OR	
4 a) Clearly state the parameter passing techniques with example program.	[6 M]
b) State the difference between iteration and recursion.	[6 M]
c) Write the syntax for function declaration, function definition, and function call	[2 M]
SECTION-III	
5 a) Write a C program to find multiplication of matrices.	[8 M]
b) Is it possible to pass array as arguments to a function? Support your answer	[6 M]
OR	[0 1.1]
6 a) Write a C program using functions to insert a sub-string into a given main string	<u>, , , , , , , , , , , , , , , , , , , </u>
at a given position.	[6 M]
b) State any six string manipulation functions and explain.	[6 M]
c) Sate the applications of arrays	[2 M]
CECTION W	
SECTION-IV	[1 / N/]
7 Write a short note on dynamic memory management functions.	[14 M]
OR	[4 M]
8 a) Write a C program to show how a function returns a pointer.	[4 M]
b) State the arithmetic operations that can be performed on pointers?c) Differentiate pointers to functions and pointers with functions.	[6 M]
c) Differentiate pointers to functions and pointers with functions.	[4 M]
SECTION-V	
9 a) Differentiate between a structure and Union. Give examples for each	[6 M]
b) What is meant by self-referential structure?	[4 M]
c) Define: (i) enum (ii) bit-fields	[4 M]
OR	
10 a) Explain the command line arguments in detail.	[4 M]
b) State the file status functions.	[4 M]
c) Write a C program to merge two files into a third file.	[6 M]

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Time: 3 hours Max Marks: 70

Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks.

SECTION-I 1 a) Write a short-note on Creating and running Programs. [4 M] b) Define Type casting. [2 M] c) Explain operator precedence and associativity [8 M]2 a) Write about Software Development Life Cycle. [6 M] b) Differentiate entry-controlled-loop and exit-controlled-loop [3 M] c) Write a C program to find arithmetic operations using switch statement [5 M] **SECTION-II** 3 a) Explain inter function communication with example programs? [7 M] b) List out the different types of storage classes and explain. [7 M] 4 a) Write a C program to print factorial of a given number using recursion. [6 M]b) Clearly state the parameter passing techniques with example program. [6 M]c) Write the syntax for function declaration, function definition, and function call. [2 M] **SECTION-III** 5 a) Write a C program to find multiplication of matrices. [8 M] b) Is it possible to pass array as arguments to a function? Support your answer [6 M] OR 6 a) Write a C program using functions to insert a sub-string into a given main string at a given position. [7 M] b) Explain any four string manipulation functions with example programs. [7 M] **SECTION-IV** 7 Write a short note on dynamic memory management functions. [14 M] 8 a) Describe features of pointers and explain array of pointers with example? [7 M] b) Differentiate pointers to functions and pointers with functions. [7 M] **SECTION-V** 9 a) Write about self-referential structures with example program? [6 M]b) Differentiate between a structure and Union. Give examples for each [4 M] c) Write about file status function. [4 M] OR 10 a) Write a C program to copy contents of one file to another. [6 M] b) State the file I/O functions. [4 M] c) Explain the command line arguments in detail. [4 M]

(Autonomous Institution – UGC, Govt. of India) UG Model question paper CP with C

CF With C	
Time: 3 hours Note: This question paper contains of 5 sections. Answer five question	Max Marks: 70 ns, choosing one
question from each section and each question carries 14 marks.	•
SECTION-I	
1. a) Explain briefly about SDLC with an example?	[7M]
b) Explain repetitive (while, for and do while) statements with example.	
OR	inpic. [714]
2. a) Explain briefly about Primary data types in C?	[7M]
b) Write a C Program to print reverse of the given number?	[3M]
c) Write a C Program to find largest of three numbers without using	
statements?	
	[4M]
SECTION-II 3. a) Explain different types of storage classes with programs?	[7M]
	[7M]
b) Define Recursion? Write a C program to find factorial of given number of the control of the c	•
Recursion?	[7M]
OR	
4. a) Explain parameter passing techniques with programs.	[7M]
b)Explain categories of functions with example?	[7M]
SECTION-III	
5. a)Define array? Write a C Program to print given list of numbers in	_
	[7M]
b) Write a C Program to find smallest and largest number in the list	using arrays with
functions?	[7M]
OR	
6. a)Explain how two dimensional arrays are declared and initialized in program	in C .write a C
To perform matrix multiplication using two dimensional arrays?	[7M]
b) Explain briefly about String handling functions?	[7M]
SECTION-IV	
7.a) Explain the following i) pointer to pointer ii) void pointer iii) Dangli	
b) Explain briefly about pointer to 1D array with program?OR	[7M]
8. a) Explain briefly about Dynamic Memory Allocation techniques?	[7M]
b) Explain briefly about self referential structures?	[7M]
SECTION-V	. ,
9.a) How Structure and unions are assigned memory? Explain with dia	agram [4M]
b) What is structure variable? Explain nested structures with exampl	
OR	[]
10. a) Explain the following file handling functions i)ftell() ii)fseek() iii)rewind iv)putw()	
	[7M]
b) Write a C program to merge two files to another?	[7M]
, 10	r -1

(Autonomous Institution – UGC, Govt. of India) UG Model question paper CP with C

CP With C		
Time: 3 hours	Max Marks:	70
Note: This question paper contains of 5 sections. Answer five questions	s, choosing on	ie
question from each section and each question carries 14 marks.		
SECTION-I		
1. a) Explain briefly about SDLC with case study?		[7M]
	:411-2 (
b) Write the difference between while and do while statements wi	ıın example? j	[/W]
OR		[7] M]
2. a) Explain briefly about Operators in C?		[7M]
b) Write a C Program to swap two values without using temporary va		[3M]
c) Write a C Program to find largest of three numbers without using s	selection	
statements?		[4M]
SECTION-II		
3. a) Explain different types of storage classes with programs?		[7M]
b) Define Recursion? Write a C program to find GCD of two numbers	using Recursi	
2) 2 cm c mean ordinate me a program to min de 2 er en e ministere		[7M]
OR		[/14]
		[57]
4. a) Explain parameter passing techniques with programs.		[7M]
b)Explain categories of functions with example?		[7M]
SECTION-III		
5. a)Define array? Write a C Program to find smallest and largest numb	er in the list?	[7M]
b) How to pass 1D array to function explain with example program?		[7M]
OR		
6. a)Explain how two dimensional arrays are declared and initialized in	ı C .write a C	
program		[7M]
To perform matrix multiplication using two dimensional arrays.		
b) Explain briefly about String handling functions?		
SECTION-IV		
7.a) Explain the following i) pointer to pointer ii) void pointer iii) Danglir	ıg pointer	[7M]
b) Explain briefly about pointer to 1D array with program?		[7M]
OR		
8. a) Explain briefly about Dynamic Memory Allocation techniques?		[7M]
b) Explain briefly about self referential structures?		[7M]
SECTION-V		
9.a) How Structure and unions are assigned memory? Explain with diag	gram	[4M]
b) What is structure variable? Can a structure variable be defined as n	_	
•	iember of and	
structure? Explain with example.		[10M]
OR 10 a) Explain the following file handling functions i) ftell() ii) feeely() iii) rewind iv) putty()		
10. a) Explain the following file handling functions i)ftell() ii)fseek() iii)rewind iv)putw()		
b) Write a C program to copy one file to another?		[7M] [7M]
by write a c program to copy one me to another:		[111]

(Autonomous Institution – UGC, Govt. of India) UG Model question paper CP with C

Time: 3 hours Max Marks: 70

Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks.

SECTION-I 1 a) Explain the structure of C Program? [4M] b) Define precedence and associativity? Give an example? [4M] c) List the various categories of operators supported by C? [6M] \mathbf{OR} 2 a)Write in detail about different types of loop statements in C. [8M] b) Write a C program to find the sum of individual digits of a given number [6M] **SECTION-II** 3 a)Explain the various categories of user defined functions in C? [8M] b) Write a function that returns the factorial of a given number [6M] 4 a) Discuss the methods of passing parameters to a function with suitable examples [6M] b) Define a recursive function? [2M] c) Write a recursive function to find the gcd of two numbers? [6M] **SECTION-III** 5 a) Define an array? Write the syntax for declaring a two dimensional array? [2M] b) Write a C Program to multiply two matrices? [4M] c) Explain any five string manipulation functions with an example? [8M] OR 6 a) Explain the concept of Array of strings with an example? [8M] b) Write a C Program to check whether given string is a palindrome or not? [6M] **SECTION-IV** 7 a) Define the following i. Pointer ii. Pointer to Pointer [4M] b) Write a Program to find the sum of given list of numbers using pointers [6M] c) Give the syntax of declaring a pointer to a function? [4M] OR 8 a) Write a function to find the maximum of a given set of numbers? [8M] b) Explain about Array of Pointers with an example? [6M] **SECTION-V** 9 a) What is a Structure? Explain how to declare and use it with an example? [6M] b) List the differences between a Structure and a Union? [4M] c) Explain any 4 file handling functions? [4M] 10 a) Define i. Union ii. Array of Structures [6M]

b) Write a C Program to copy the contents of one file to another?

[8M]

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Time: 3 hours Max Marks: 70 Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks.	
SECTION-I	
1. a) Briefly Explain the following i)switch case ii) for loop iii) While	[4M]
b) Explain the following operators in 'C' with programsi)Bitwise iii)increment (++) and decrement () iv)logical	[5M]
c) Write a C program to find the maximum of N numbers? (OR)	[5M]
2 .a) What is a ternary operator ?Explain.	[2M]
b) Briefly explain the following	[]
i) Computing languages ii) SDLC life cycle iii) Basic structure of a c program	[7M]
c) Write a C program to reverse a given number.	[5M]
SECTION-II	
3.a)Explain Parameter Passing Techniques with programs? b)Explain different types of storage classes in 'C' with programs? (OR)	[7M] [7M]
4.a)Define recursion.Write a C Program to find the Fibonacci series using recursive b) Explain Preprocessor Directives with examples?	function. [7M] [7M]
SECTION-III	
5.a) Give a Matrices A of NXM and B MXN Write a C Program to multiply two matric Store the result in C Matrix?	es and [5M]
b)Explain passing an entire array from one function to another function with pro	gram?
	[4M]
c)Write a C program to find smallest and largest element in an array. (OR)	[5M]
6.a) Define string. Explain how string is declared and initialized in 'C'?	[4M]
b) Explain any six string manipulation functions in 'C'?	[6M]
c) Write a C program using user defined functions to determine whether the given string is palindrome or not.	[4M]
SECTION-IV	
7 a) Explain pointer to an array in detail with program?b) Define pointer. Explain how pointer variable is declared and initialized in 'C'?c) Write a C program to find the length of the string using Pointer.	[4M] [5M] [5M]

(OR)

8. a) Explain pointers to functions with program?	[5M]
b) Explain array of pointers with program?	[5M]
c)Write a c program using pointer to find sum of all elements stored in a array?	[4M]
SECTION-V	
9. a) Define Structure. Explain how structure variables are declared and initialized i	n C?[4M]
b) Explain pointers to structures with program?	[5M]
c) Write a C Program to Calculate Total and Percentage marks of a student	[5M]
using structure.	
(OR)	
10.a) Write a C program to reverse the first n characters in a file.	[5M]
b) Explain different modes that can be provided as a parameter to the fopen() fu	nction?
	[4M]
c) Explain different file positioning functions with programs?	[5M]

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Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks.

SECTION-I 1.a) Briefly Explain the following [4M] i)Explicit type conversion ii)precedence iii) associativity b) Explain the following operators in 'C' with programs [5M] ii)Conditional iii)increment (++) and decrement (--) iv)logical i)Bitwise c) Explain the Control statements in 'C' language with programs? [5M] (OR) 2.a) What is the difference between break and continue? [2M] b) Explain different types of looping statements in 'C' with programs? [7M] c)Write a C program to reverse a given number. [5M] 3.a) Explain Parameter Passing Techniques with programs? [7M] b) Explain different types of storage classes in 'C' with programs? [7M] (OR) 4.a) Define recursion. Write a C Program to find the GCD of two Given numbers using recursive function. [7M] b) Explain Preprocessor commands with examples? [7M] **SECTION-III** 5.a) Define array. Explain how array is declared and initialized in 'C'? [4M] b)Explain passing an entire array from one function to another function with program? [5M] c)Write a C program to find smallest and largest element in an array. [5M] (OR) 6.a) Define string. Explain how string is declared and initialized in 'C'? [4M] b)Explain any six string manipulation functions in 'C'? [6M] c)Write a C program using user defined functions to determine whether the given string is palindrome or not. [4M] **SECTION-IV** 7.a) Define pointer. Explain how pointer variable is declared and initialized in 'C'? [4M] b) Explain void pointers with program? [5M] c) Write a C program to find the length of the string using Pointer. [5M] (OR) 8.a) Explain pointers to functions with program? [5M] b)Explain array of pointers with program? [5M] c) What are the arithmetic operators that are permitted on pointers? [4M]

SECTION-V

9.a) Define Structure. Explain how structure variables are declared and initialized in C?	[4M]
b)Explain pointers to structures with program?	[5M]
c)Write a C Program to Calculate Total and Percentage marks of a student using structu	ıre.
	[5M]
(OR)	
10.a) Explain different modes that can be provided as a parameter to the fopen() functio	n?[4M]
b)Explain different file positioning functions with programs?	[5M]
c)Write a C program to reverse the first n characters in a file.	[5M]

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SECTION-I	
1 a) Explain different types of computing environments	[7M]
b) Explain Conditional statements in C language	[7M]
OR	
2 a) Define algorithm and flowchart with an example	[7M]
b) Write about Software development life cycle	[7M]
SECTION-II	
3 a) Define recursion. Write a C program to find factorial of a number using recursive func	tion
	[7M]
b) Describe parameter passing methods with example programs	[7M]
OR	
4 a) Explain categories of functions with an example programs	[7M]
b) List out different types of storage classes in C	[7M]
SECTION-III	. ,
5 a) Explain how one dimensional arrays are declared and initialized in C with an example	
program	[5M]
b) Explain different string manipulation functions with examples	[5M]
c) Write a C program to perform multiplication of two matrices	[4M]
OR	
6 a) Write a C program to find the largest number from the given array	[7M]
b) Write a C program to check whether the given string is palindrome or not	[7M]
SECTION-IV	
7 a) Define pointer. Write the advantages of pointers	[4M]
b) Describe about dynamic memory allocation with its functions	[5M]
c) Write a C program to find the length of the given string using pointers	[5M]
OR	. ,
8 a) Explain pointers and arrays with an example program	[7M]
b) Explain about pointers and functions	[7M]
SECTION-V	
9 a) Explain array of structures with an example program	[5M]
b) Differentiate between structures and unions	[5M]
c) Define typedef,enum,bit fields	[4M]
OR	
10 a) Define file. Differentiate text file and binary file	[5M]
b) Write a C program to copy one file into another file	[5M
c) Write about command line arguments	[4M]
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