(i) (ii)		ted Pages: 3 Sub. Code: 0 9 1 4 Exam. Code: 0 0 2 7			
	B	achelor of Computer Applications 1st Semester 1128 PROBLEM SOLVING THROUGH C			
		Paper—BCA-16-104			
		wed: Three Hours] [Maximum Marks: 65 Attempt five questions in all, selecting one question each from Units I, II, III and IV. Unit-V is compulsory. UNIT-I			
1.	(a)	What is a flowchart? Draw a flowchart to find out total number of students in a class who have scored more than 60%.			
	(b)	What is a constant? Discuss different types of constants used in C language.			
2.	(a)	Discuss the structure of a C program with the help of an example program.			
	(b)	Discuss various arithmetic and assignment operators available in C language. Give appropriate examples.			
UNIT—II					
	(a) (b)	Discuss various looping statements used in C language. 6 What are the different ways to pass parameters to a function? Explain with the help of examples. 7			
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4. How to use switch, break and continue statements in a (a) program? Give example code. Define a function to print ith Fibonacci where term i is passed (b) as argument to the function. Use this function to print first n Fibonacci terms. 7 UNIT—III 5. Write a program to find greatest element in each row of a (a) two dimensional array. (b) How to declare an array (single and double dimensional)? How to access individual values in an array? How to initialize an array during compile time and run time? Give appropriate example code. 7 6. What is a pointer? How to use pointers with double (a) dimensional array? Write a program to print all the elements of a two-dimensional array using pointers. How to allocate memory dynamically? Discuss various (b) functions used. 7 UNIT—IV Discuss the following string handling functions with the help 7. (a) of example code: (i) strcat() (ii) strcmp() (iii) strcpy() 6

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(b)

Write a program to copy a string from one character array

to another without using any built-in string handling function.

7

8.	(a)	How to use array of structures? Explain with the help of	an
		example code.	6
	(b)	How to create, open and close a file in a C program	?
		Discuss various functions used to write into a file.	7
		UNIT—V	
9.	(a)	Differentiate between local and global variables.	2
ë	(b)	What are Data Flow Diagrams? Give example.	2
•	(c)	What logical operators are available in C language?	2
	(d)	What is a Union? Give example.	2
	(e)	How are structures different from arrays?	2
	(f)	What is the use of static storage class?	3