(11) Q	Exam. Code: $\boxed{0\ 0\ 2\ 7}$
	Bachelor of Computer Applications 1st Semester
	(1129)
	PROBLEM SOLVING THROUGH C
	Paper—BCA-16-104
Time Al	lowed : Three Hours [Maximum Marks : 65
	- Attempt <i>five</i> questions in all, selecting <i>one</i> question each from Units-I, II, III and IV. Unit-V is compulsory. UNIT—I
1. (a)	What is a decision table? What are the components of a decision table? Explain with the help of an example decision table.
(b)	
2. (a)	Discuss arithmetic, relational and logical operators used in C language. Discuss the hierarchy among these operators.
(b)	What is a variable? How is it different from a constant? Discuss the rules to name variables. 7 UNIT—II
3. (a)	What is the use of goto statement in a program? Show with the help of an example.
(b)	Write a program in C language to convert an integer into binary.
4. (a) (b)	Discuss storage classes available in C language. 6 How to define a function? Write a function to check whether given number is even or not. Use this function to print all even numbers from 1 to 100.
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Questions

(i)

(ii)

UNIT—III

5.	(a)	Discuss call by value and call by reference methods of passing arguments to a function with the help of example code.
	(b)	Write a program to search the smallest and the larges elements in an array.
6.	(a)	How to use malloc, calloc, realloc and free in program? Explain with the help of example code.
	(b)	
7.	(a)	How to read and write strings in a C program? Discuss any four string handling functions used in C language
	(b)	What is a structure? How structures are different from arrays? How to define and use structures in a program? Explain with the help of example code. 7
3.	(a)	How to use structures with pointers? Write a program to get information about students from user and store the information in structures. Now using pointers print the information of all the students on screen.
	(b)	Write a program to get a string from user and store the string in a file. Now read the alternate characters in the string and print on screen. 7 UNIT—V
).	(a)	What is a keyword? Give example. 2
	(b)	What do you understand by character set of a language?
	(c)	What is a library function ? Give example. 2
	(d)	What do you understand by function prototype? Give example.
	(e)	What is the difference between getch() and getche()?
	(f)	What is a union? Give example.
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