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SARDAR PATEL UNIVERSITY

External Examination (CBCS)

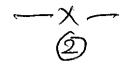
B. Sc. (Info & Tech.) – 3rd- Semester (CBCS)

US03CINT02: Problem Solving Methodology & Programming in "C"

25th November, Monday - 2019

Time:	02:00 pm to 5:00	Total Marks:	Total Marks: 70		
Q-1	Select an approp		10		
1.			h to solve any probl inguage (c) Algo	em. rithm (d) Compiler	
2.		etorial representation (b) Flow Cha	on of an algorithm. t (c) Pie Chai	t (d) Program	٠
3.			ool for a flowchart? (c) Diamond	l (d) Square	
4.	The range of int (a) 2	data type is (b) 4	_ bytes. (c) 8	(d) 16	
5.				known as (d) None of these	
6.	The combination (a) Ternary	of ? and : is know (b) Arithmetic	/n as (c) dot	operator. (d) Relational	
7.	to the condition.	kips the remaining (b) Continue		p and control transfer (d) switch	
8.	The Switch expre (a) Integer	ession can be an _ (b) Float	type. (c) Double	(d) None of these	
9.		cter is known as _ (b) Array	(c) Function	(d) All of these	
10.	operationoperati	on is performed on (b) Copying	string. (c) Writing	(d) All of these	
Q-2	Answer the follow	wing questions. (A	ttempt any TEN)		20
1. 2. 3. 4. 5.	What is flowchar List rules to draw Explain printf() si Explain short har	t? List symbols use			
		Pac	ne 1 of 2	CPT	co

7. 8. 9. 10. 11.	Explain break and continue statement in C. Write difference between exit and entry controlled loop. Explain structure programming. What is string? Explain. Explain gets() function with syntax and example. Write the advantage of function.	
Q-3 (a) (b)	What is an algorithm? Write advantages and disadvantages of an algorithm. Write an algorithm to check whether inputted number is prime or not.	5 5
0.0	OR	
Q-3 (a) (b)	What is flow chart? Write advantages and disadvantages of flowchart. Write an algorithm to check whether inputted number is palindrome or not.	5 5
Q-4 (a) (b)	Explain Basic Structure of C program. What is Variable? How to declare and initialization of variable with example.	5 5
_	OR	
Q-4 (a) (b)	What is operator? Explain different operators with example. Explain basic data types used in C language.	5 5
Q-5	Define array? Also explain declaration of 1D and 2D array with syntax and example	10
	OR	
Q-5	Discuss in detail do-while, while and for loop.	10
Q-6 (a) (b)	Define function? Explain type of function used in C with example. Explain following function: (i) strcpy() (ii) strlen()	5 5
	OR	
Q-6 (a) (b)	Explain formal parameter and actual parameter with example. Explain following function: (i) strcmp() (ii) strrey()	5 5



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