SARDAR PATEL UNIVERSITY

S.Y.B.Sc: SEMESTER - III BIO INFORMATICS: US03CBNF01

Problem Solving Methodology and Programming in C

Date:	13/11/2013, Wednesday	Time:02:30pm to 05:3	0pn	
		Mark	ks:70	
Q.1	Multiple choice of Question		1	
	[1] is a sten h	y step approach to solve any problem.		
	(a) Process	(b) Algorithm		
	(c) Programming Langu			
		epresentation of an algorithm.		
		(b) Flow Chat		
	(c) Pie Chart	(d) Program		
		cision symbol for a flowchart?		
		(b) diamond		
	(c) lozenge	(d) square		
	[4] The range of double data	a tyne is bytes.		
	(a) 2	(b) 4		
	(c) 8	(d) 16		
		ection is compulsory in C program?		
	(a) Main()	(b) Definition		
	(c) Documentation	(d) None of these		
		ifier used for floating data type.		
	(a) %d	(b) %f		
	(c) %c	(d) %e		
		pegin with number		
	(a) Zero	(b) One		
	(c) Three	(d) None of these		
		data type is use.		
	(a) int	(b) char		
		(d) All of above		
	[9] A group of character is l	` '		
	(c) Function	(b) Array (d) All of above		
		requiresparameter.		
		(b) Two		
	(c) Three	(d) Four		
Q.2	Attempt any 10 questions:		20	
	[1] Write an algorithm to fi	nd maximum from given three numbers.		
	[2] Draw a flowchart to find simple interest. Hint: SI=(P*R*N)/100.			
	• -	st Characteristics of an algorithm.		
	[4] Define Constant and Var			
	[5] Explain ternary operator			
	[6] Explain short hand operator in brief.			
	[7] What is array? List out the type of array use in c programming.			
	[8] Explain break and continue statement in C.			
	[9] Write difference between exit and entry controlled loop.			
	[10] Explain puts () function			
		nction? Give example of user defined		
	[12] Write the advantages of	function		

Q.3	[A] Explain different generation of computer languages.	
	[B] Draw a flowchart to check whether inputted number is prime number or not.	5
	OR	
Q.3	[A] What is Flowchart? Write advantages and disadvantages of flow chart.	5
	[B] Write an algorithm to check whether inputted number is prime number or not.	5
Q.4	[A] Explain Basic Structure of C program.	4
	[B] What is operator? Explain different operators with example.	6
	OR	
Q.4	[A] How variable can be defined in C? What are the different types of variables? Write difference between a variable and a constant.	5
	[B] Explain Escape sequence with example.	5
Q.5	[A] Explain following function with syntax and example.1. strcmp()2. strrev()	5
	[B] Explain ifelse & nested if statement with syntax and example.	5
	OR	
Q.5	Explain looping statements with syntax and example.	10
Q.6	[A] Define function? Explain type of category used in c with example	10
	OR	
Q.6	[A] Explain command line argument in c with example.	5
	[B] Explain function definition and function call with syntax and	5

example