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SARDAR PATEL UNIVERSITY

POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS (PGDCA) SEMESTER- I EXAMINATION, 1st APRIL 2016 PGDCA - 102 (C AND DATA STRUCTURE) Marks: 70

Time: 2:30 pm to 5:30pm

Q.1	Select the Appropriate Answer of	f the following questions:	[8]
1.	What symbol is used to represent of	output in a flowchart?	
	A. Square	B. Parallelogram	
	C. Rectangle	D. None of these	
2.		a process is called as	
	A. Flowchart	B. Algorithm	
	C. Software	D. None of these	
3.	In C programming languages	are used to store values in memory.	
	A. Variable	B. Operators	
	C. Functions	D. None of these	
4.	is used to represent float values.		
	A. %c	B. %d	
	C. %f	D. None of these	
5.	Consider the following code snippet:		
	while (1)		
	{		
	printf(" Hello");	,	
	How many times execute above loop?		
	A. 1	B. 10	
	C. Infinite	D. None of these	
6	An array in C programming langu	age contains element of data type.	
٠.	A. Complex	B. Same	
	C. Different	D. None of these	
7.	A function in a C programming language can never have		
	A. Arguments	B. Return value	
	C. Call to itself	D. None of these	
8.	A data structure in which insertion and deletion of an elements occurs at only one		
	end is known as		
	A. Stack	B. Queue	
	C. Tree	D. Graph	
0.2	A nerven the following questions:	IAnv seven	[14]
Q.2	Answer the following questions: [Any seven] 1. What do you mean by translator? Explain in brief.		
	2. Define program. Write a sample program that prints "C Program" as output.		
	3. Explain editors in brief.		
	4. List & draw out any four symbols of flowchart.		
	5. Explain printf() and scanf() functions with example.		
	6. Define arrays.		
	7. What do you mean by ent	ry control loop?	
	Define non-primitive data		
	O Define trees		

0.3	A	Draw the block diagram of computers.	[06]
·-	В	What is operator? Explain different types of operators with example.	[06]
		OR	
	B	Explain high level language and assembly language in detail.	[06]
Q.4	A	Write difference between do-while, while and for loop.	[06]
	B	What is array initialization? Explain initialization of Idimensional array with syntax and example.	[06]
		OR	
	В	Explain switch statement in detail with example.	[06]
Q.5	A	Write a note on user defined functions.	[06]
	В	Explain structure in detail.	[06]
		<u>OR</u>	
	В	Write algorithm for push and pop operation on stack.	[06]
0.6	Á	Define queue. Mention algorithm to insert and delete an element inside a queue.	[06]
•	В	Explain singular linked list in detail with suitable example.	[06]
		OR .	
	В	Discuss file management in detail.	[06]

****BEST OF LUCK****