[08]

SARDAR PATEL UNIVERSITY

(82)

iii. Colon

M.Sc. (Electronics) II Semester Examination
Thursday, 29th November, 2012 Time: 10.30 cm to 1.30 pm

PS02CELE03 – Programming in C/C++

Total Marks - 70

1. Figure to the right indicate maximum marks for the question

Q-1 By Default the real number in C language is treated as : A) i. float ii. long double iii, double iv. short B) #define X 01 Referring to the sample above, what is #define? i: integer constant ii. preprocessor macro iii. Preprocessor directive iv. pre-compiler integer The keyword used to transfer control back to the top of loop is C) i. continue ii. switch iii. goto iv. return Which one of the following variable names is NOT valid? D) i. 52go ii. X Y iii. steps iv. t 123456 In which stage the following code E) #include<math.h> gets replaced by the contents of the file math.h i. during editing ii. during linking iii. During compiling iv. during preprocessing Which of the followings is not a arithmetic operator? F) i. << ii. + iii. I iv. % G) A local block in C language is marked with : i. pair of braces ii. between to dots iii. Pair of curly braces iv. None of the above Which is a C language statement terminator? H) i. period

ii. semicolon

iv. question mark

Q-2	Answer any seven, in short.(Two marks each)	[14]
1 2	What is type casting? What are global variables?	7
3	What is the difference between while and do-while?	
3	Discuss in brief about C Keywords.	
5	Explain conditional operator with suitable example.	
6 7	Differentiate between post-decrement and pre-decrement operator.	
7	Why do we have a null character ('\0') at the end of the string?	
8	Why function prototype declaration is required? What is EOF?	
0	What is EOF?	
Q-3 [a]	300.	[06]
Q-3 [b]	OR	[06]
Q-3 [b]	List various data type supported by C language. Explain build-it data types of C language with their ranges.	[06]
Q-4 [a]	Write a C program to read an array of 100 integer values. Program should find and print the largest of the entered values.	[06]
Q-4 [b]		[06]
	OR	
Q-4 [b]	Discuss about two dimensional array in C language with suitable example.	[06]
Q-5 [a]	Compare the text and graphics modes capabilities of C language. Show the graphics capability of C language by suitable example.	[06]
Q-5 [b]	Write a C program to check whether a number is palindrome or not? e.g. 242, 585 is palindrome.	[06]
	OR	
Q-5 [b]	Write a C language function to find and print the smallest digit of an integer number passed as an argument. Make necessary assumptions.	[06]
Q-6 [a]	List and discuss in details the advantages of C language.	[06]
Q-6 [b]	With neat circuit digram, show how to connect a LED at parallel port of IBM PC so as when data '1' is sent LED will glow. Write a C program to turn LED On and OFF with the interval of 1 Second. Make necessary assumptions. OR	[06]
Z-6 [P]	What is parallel port? Explain briefly. Enlist and describe the different functions available for interfacing parallel port using C language for various input and output jobs.	[06]

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