

USN	I.										1.7PCD13
First Semester S.E. Degree Examination, Dec.2017/Jan.2018											
Programming in C and Data Structures											
Tin	Time: 3 hrs. Max. Marks: 100										
	Note: Answer any FIVE full questions, choosing one full question from each module										
		Exp Clas i) ii) iii)	ator lain ssify r143' belp auto hell	s. structhe	ctur foll	e of	C pr	: - ogram	with	Module-1 rite a C program to demonstrate working of an example. invalid variable. If invalid give reasons.	these logical (10 Marks) (05 Marks)
2 a										ypes of tokens available in c language? Exp find biggeSt of three numbers.	olain. (10 Marks) (10 Marks)
١	a. b. a. h.]	Exploration Explor	lain : ndro lain ble the 2	bre exar	ak a	of v ot. and es.	cont	state	men	Module-2 of quadratic equation. at. Write a C program to check the given OR ments with respect to do-vat*, while and fo	(10 Marks)
	_		12:							J	(05 Marks)
	c.	Exp	lain	tern	ary	opei	rator	with s	uitat	ble example.	(05 Marks)
Module-3											
5 a	. De							ntax f	or d	eclaring two dimensional array and initial	
		with									(10 Marks)
	D. Y	write	a C	pro	gran	n to	lina	sum o	t arr	ray elements by passing array as function ar	gument. (05 Marks)
	c. I	Expla	in ar	ıy tv	vo s	trin	g ma	nipul	ation	functions.	(05 Marks)
OR											
6	a.	Exp	lain	recu	rsio	n w	ith ar	exan	ıple.		(06 Marks)
	b.									ents of a given array using bubble sort.	(08 Marks)
	c.									wo strings without using built-in function stro	cat().

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M	od	lan l	e-4
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7 a. Wł	nat is structure? Explain its declaration and initialization with an example.	(06 Marks)
b.	Explain any four file operations with an example.	(06 Marks)
c.	Write a C program to pass structure variable as function argument.	(08 Marks)

OR

8 a. Write a C program to store and print Name, USN, SubjectName and IA Marks of student using structure.
 60 Marks)
 b. Explain typedef with suitable example.
 (05 M arks)

Explain typedef with suitable example.

Explain how the input is executed from file and displayed.

Explain how the input is accepted from file and displayed.

Module-5

9 a. What is pointer? Give advantages and disadvantages of pointers in C.

b. Explain malloc() and calloc() functions with examples.

c. What is queue? Explain its operations.

(07 IN larks)

(06 Marks)

OR

10 .a. Write a C program to swap two numbers using call by address.

What are primitive and non-primitive data types and explain.

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c. Define stack.. List applications of stack.

ci.

(08 Marks)

(05 Marks)

(07 Marks)

(05 Marks)

