Roll No.

Total No of Pages: 3

B.Tech. IV-Sem (Main & Back) Exam; June-July 2016 Computer Science & Engineering 4CS6A Principles of Programming Languages

Common with CS, IT

Time: 3 Hours

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Maximum Marks: 80

Mir. Passing Marks (Main & Back): 26

Min. Passing Marks (Old Back): 24

Instructions to Candidates:-

Attempt any five questions, selecting one question from each unit. All Questions carry equal marks. Schematic diagrams must be shown wherever necessary, Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination.

(Mentioned in form No.205)

1. <u>NIL</u>

2. N

UNIT-I

- Q.1 (a) What is need of Programming Language? And also explain types of programming paradigms?
 - What are main features of good programming language? (b)

OR

- Define Binding and Binding time? What are the different types of binding in O.1 (a) respect of programming? 181
 - What is compiler? Explain phases of compilers for given expression (b)

R := K + T * 30

[8]

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UNIT-II

rtuonline.com C 2 (a) Explain type checking and type conversion with suitable Example?	[H]
(b) What are files? Explain various types of files?	[8]
OR	
Q.2 (a) Explain the Implementation structure and union?	181
that is dit are between array and vector? Explain multi-dimen-	sional
Array?	[8]
UNIT-III	
Q.3 (a) With is Exception harding? Explain difference Between Exception	m mud
Compilation Error?	181
(b) What is SUB-Program? Explain difference between simple and	reurære
SUB Program?	[8]
<u>OR</u> .	
Q.3 (a) What are the actual and formal parameters? Explain with suitable example	le? [8
(b) What is sequence control? Example sequence control for i	recursiv
SUB Program? rtuonline.com	8]
<u>UNIT-IV</u>	
Q.4 (a) What do you mean by static and dynamic scope of a data member?	g
(b) Explain various parameters transmission:	43
(i) Call by value	
(ii) Call by reference 6	1

		<u>OR</u>	[8]
Q.4	(a)	What is difference between local and shared data?	[8]
	(b)	Write short notes ON Tasks?	
Q.5	(a) (b)	This dorage management fixed and variable size heap data element.	[8] [8]
		OR	[4×4=16]
Q.5 Explain with example (ANY FOUR):-			[#A
	(a)	Garbage Collection	
	(b)	Type definition	
,	(c)	Abstract Data type	
	(d)	Information hiding	
(e)	ENCAPSULATION rtuonline.com	