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AA-50-2019

FACULTY OF SCIENCE

B.Sc. (CS) (Second Year) (Third Semester) EXAMINATION OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

(Programming Language Concepts)

(Monday, 18-11-2019)		Time: 2.00 p.m. to 5.00 p.m.	
Time—3	Hours	Maximum Marks—75	
N.B. :—	(i) All questions are compulsory.		
	(ii) Figures to the right indicate fu	ll marks.	
	(iii) Assume suitable data, if necess	ary.	
1. Atte	empt any five of the following:	15	
(a)	Describe the need to study program	nming languages.	
(<i>b</i>)	What is Binding time?		
(c)	Explain syntatic elements of a lang	uage.	
(d)	Describe data objects and constants.		
(e)	Explain evaluation of the data type	concept.	
(f)	What is inheritance concept?	8	
(g)	Explain development of programmir	ng languages.	
2. Att	empt any two of the following:	10	
(a)	Explain impact of programming par	adigms.	
(b)	Describe application domains in deta	ail.	
(c)	Describe attributes of a good langua	age.	
3. Att	empt any two of the following:	10	
(a)	Explain translators and virtual arch	nitectures.	
(b)	Explain Binding concept in detail.		
(c)	Describe computer hardware.		
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4.	Atte	mpt any <i>two</i> of the following:	10
	(a)	Explain synthesis of the object program.	
	<i>(b)</i>	Describe general syntactic criteria.	1000 1000
(c)	(c)	Explain analysis of the source program.	
(a) (b) (c)	Atte	mpt any <i>two</i> of the following:	10
	(a)	Explain data types in programming language concepts.	OB ON TO
	(<i>b</i>)	Describe Booleans and characters scalar data types in detail.	
	(c)	Explain assignment and initialization concepts.	
6. Atte (a) (b) (c)	Atte	mpt any <i>two</i> of the following:	10
	(a)	Explain information hiding concept.	
	<i>(b)</i>	Describe declarations and type checking for data structures.	
	(c)	What is Vector? Explain with suitable example.	
	Atte	mpt any <i>two</i> of the following:	10
	(a)	Explain abstract classes with suitable example.	
	(<i>b</i>)	Describe derived classes.	
	(c)	Explain methods with suitable example.	