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TCS :	504	
Roll N	Vo.	
		Odd Semester Examination, 2019-20
		B.Tech (CSE, Semester V)
		Principle of Programming Languages
		Total Marks: 100
Time	: 3 Ho	Total no. of printed pages: 1
		Total no. of printed pages.
		Attempt ALL questions all Questions carry equal marks.
Note:	(i)	In case of numerical problems assume data wherever not provided.
	(ii)	Be precise in your answer.
	(iii)	
0.1	Attem	pt any four parts of the following: $(5 \times 4 = 20)$
Q.1.	(a)	explain the different characteristic of programming language? Explain the different types
	(a)	1 - 1
	(b)	What are the major factors that affect development and evolution of programming
	(0)	language methodologies?
	(c)	Define software simulated computer.
	(d)	will the greatest and semantics in programming language?
	(e)	What do you mean by translator? Explain its structure and operation.
	(f)	Discus structures and operations of translators.
		$(5 \times 4 = 20)$
Q.2.	Atten	apt any four parts of the following: $(5 \times 4 - 20)$
	(a)	What are sequence control? Discuss their implementation?
	(b)	Discuss concurrent executions? Define subprogram and programmer defined data types.
	(c)	Explain in detail encapsulation, information hiding and abstraction.
	(d)	Fundain exportion handling by taking a suitable example:
	(e) (f)	Differentiate between implicit and explicit sequence control.
	(1)	$(10 \times 2 = 20)$
Q.3.	Atter	and two parts of the following.
Q.5.	(a)	Write short notes on data control reference environments.
	(b)	Explain the following:
	(0)	Static storage management.
		ii) Heap- based storage management
		iii) Stack – based storage management What is heap? Explain how heap can be used to implement storage management. In this What is heap? Explain how heap can be used to implement heap such that garbage
	(c)	What is heap? Explain how heap can be used to implement storage have garbage context explain the most suitable data structure to implement heap such that garbage context explain the most suitable data structure to implement heap such that garbage context explain the most suitable data structure to implement heap such that garbage context explain the most suitable data structure to implement heap such that garbage context explain the most suitable data structure to implement heap such that garbage context explain how heap can be used to implement storage have garbage context.
		context explain the most suitable data structure to improve out effectively.
		$(10 \times 2 = 20)$
Q.4.		mpt <i>any two</i> parts of the following: Discuss the different stages in translation with suitable examples.
	(a)	
	(b) (c)	Define co routines and scheduled subprograms. What is Object Oriented Programming? Compare the object description of C++ and Java
	(0)	$(10 \times 2 = 20)$
Q.5.	Atte	two parts of the following:
Q.5.	(a)	Explain in detail encapsulation, information hiding and abstraction.
	(b)	What do you mean by formal syntax and semantics? Differentiate between any
	(-)	language and object oriented language.
	(c)	Define the following terms:
		i) Implicit and Explicit sequence control

Referencing environment