[Total No. of Printed Pages—2

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No.		[5559]-194

S.E. (Computer Engg.) (Second Semester) EXAMINATION, 2019 PRINCIPLES OF PROGRAMMING LANGUAGES (2015 PATTERN)

Time	: 2 Hours Maximum Mark	s : 50
N.B.	: (i) All questions are compulsory.	
11.5.	(ii) Figures to the right indicates full marks	
	2.	
Que. 1	What is the difference between Applets & Application programs? Draw & explain	F. 633
a.	lifecycle of Applet with example.	[7]
b.	What are the types of Exceptions? Explain any 3 Built-in Exceptions with suitable	[6]
	example.	.,
Que. 2	OR S	
a.	Define the following	
и.	i. Streams	
	ii. Byte Streams	[7]
	iii. Character Streams	
	iv. Predefined Streams Enlist the methods of Print Writer class with example.	1
b.	What are uncaught Exceptions? State the use of try(), catch(), throw() methods.	[6]
	· · · · · · · · · · · · · · · · · · ·	35
Que. 3	Define the term SDLC. What are the different phases in SDLC? Describe the Waterfall	<i>2</i>
a.	model in detail with diagram.	[6]
b.	Differentiate between static & dynamic Type Checking. Explain Cartesian product	[6]
	model with suitable example.	
Oue 4	OR OR	
Que. 4 a.	What is mean by Syntax & Semantics? Explain syntax & lexical rules of programming	[6]
	language with example.	
ъ.	What is Built-in & Primitive data types? State the primitive data types of C++ & Java.	[6]
Que. 5		
a.	State the use of following constructs in Java	
	i. Method Overriding	[6]
	ii. Abstract class	
b.	iii. Use of final keyword What is mean by Packages & Interfaces in Java? Explain with suitable example.	[7]
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		P.T.O.

OR

Que. 6	The state of the s				
a.	What is Inheritance? How multilevel inheritance is achieved in Java? Explain with suitable example.	[7]			
b.	What is mean by recursion? Write a java program to find out factorial of given number.	[6]			
Que. 7	20, 29				
a.	What is mean by modularity? Which concepts are supported to achieve modularity in any programming language?	[6]			
b.	What are Strings in Java? Explain following operations of class Strings in Java with example.				
	i. To find length of the string	[6]			
	ii. To compare two strings				
	iii. Extraction of a character from string				
Que. 8	OR				
a.	How to create generic module in programming language? Explain the term Template	563			
	with example in C++ language.	[6]			
b.	Explain Java's role in internet. Justify the following features of Java				
	i. Secure	[6]			
	ii. Architecture Neutral iii. Distributed				
	iii. Distributed				
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