2022

B.A./B.Sc. Fifth Semester CORE – 11 COMPUTER SCIENCE Course Code: CSC 5.11 (Internet Technologies)

Total Mark: 70 Time: 3 hours Pass Mark: 28

3+6=9

Answer five questions, taking one from each unit.

UNIT-I

1.	(a)	What is Java? Why is Java given the term "Write once, run				
		anywhere"?	1+3=4			
	(b)	Briefly explain the following terms:	2×5=10			
		(i) Java Virtual Machine (JVM)				
		(ii) Java Development Kit (JDK)				
		(iii) Java Runtime Environment (JRE)				
		(iv) Bytecode				
		(v) Garbage Collector				
2.	(a)	Explain the important features of Java.	9			
	(b)	What are arraylist in Java? Write a program to print an arrayl	ist using			
		for-each loop.	2+3=5			
UNIT-II						
3.	(a)	What is JavaScript (JS)? What are the advantages of JS? Exp internal JS and external JS with examples.	plain +4+4=9			
	(\mathbf{h})	What are JavaScript functions? Write a JavaScript code to ill				
	(0)	a function taking multiple parameters.	2+3=5			
		a function taking multiple parameters.	2+5-5			

4. (a) What are the differences between Java and JavaScript?5(b) What are event and event handling in JavaScript? Write a JavaScript

code for click event and mouseover event.

UNIT-III

5.	(a) What is JDBC? Explain the JDBC architecture with a di	iagram.
		1+5=6
	(b) List and explain the four types of drivers in JDBC.	8
6.	(a) Explain the steps to connect Java application with datab	•
	JDBC.	8
	(b) What are the JDBC statements?	6
	UNIT-IV	
7.	(a) What are Java Server Pages (JSP)? What are the advan	ntages of JSP
	over Servlet?	2+4=6
	(b) Write a note on JSP lifecycle.	8
8.	(a) Explain the three most important elements of JSP.(b) What are implicit objects in JSP? Explain the out implic	10 it object.

1+3=4

UNIT-V

9.	(a)	What are JavaBeans? What are the features and advantages of		
		JavaBeans?	2+7=9	
	(b)	xplain the two methods to access the JavaBean properties with a		
		example.	5	
10.	Exp	plain steps to develop a user-defined JavaBean.	14	