Roll No.

Total Pages: 2

45171

BT-5/D-21

ESSENTIALS OF INFORMATION TECHNOLOGY

Paper-PC-CS-305A

Option-I

Time Allowed: 3 Hours]

[Maximum Marks: 75

Note: Attempt five questions in all, selecting at least one question from each Unit.

UNIT-I

- (a) What is Package? How do we add a class or an interface to a package?
 Discuss the various levels of access protection available for packages and their implementation.
 2,3,5
 - (b) What is JVM? Explain various features of JAVA?

5

What is an exception? Explain how exception handling mechanism can be used for debugging a program. List some of the most common types of exceptions that might occur in Java. Give examples.

UNIT-II

- 3. (a) What is Swing? What are the advantages of Swing on AWT? How do we use containers and components through swing? Illustrate all with a simple program?
 - (b) Explain in brief
 - (i) Combo Box

(ii) Panel

(iii) Scroll Panes

(iv) Tabbed Panes.

5

4. How Applets are different from Applications Programs? Develop an applet that receive one numeric value as input from the user and display factorial of that number on the screen. Write an HTML page and test the applet?

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UNIT-III

_	(a) What is Camilet 9 What are the adventages of Camilet 9 Evuloir its 1:6
5.	(a) What is Servlet? What are the advantages of Servlet? Explain its life cycle.
	(b) Explain the following with example:
	(i) Cookies. (ii) Session Tracking. 2×4=8
6.	Write the steps to create and run servlet program. Explain with example.
	UNIT-IV
7.	What is JDBC ? Why it is needed ? Write Java code for establishing
	connection interface using SQL.
8.	(a) Explain the terms Result Set Object and Result Set Meta data. 8
	(b) What are the steps to connect to database in JAVA?