## **LEARN LONER**

Roll	l No.		T	otal Pages : 2
		BT-5/D-	21	45171
ESSENTIALS OF INFORMATION TECHNOLOGY				
		Paper-PC-CS	S-305A	
		Option-	–I	
Time Allowed: 3 Hours]			[Maximus	m Marks : 75
Not	e :	Attempt <b>five</b> questions in all, see each Unit.	electing at least one	question from
		UNIT-	I	
1.	(a)	What is Package? How do we add Discuss the various levels of acce and their implementation.		
	(b)	What is JVM ? Explain various	features of JAVA?	5
2. What is an exception? Explain how except used for debugging a program. List some exceptions that might occur in Java. Give			some of the most com	
		UNIT-I	1	
3.	(a) What is Swing? What are the advantages of Swing on AWT do we use containers and components through swing? Illustration with a simple program?			
	(b)	Explain in brief		
		(i) Combo Box	(ii) Panel	
		(iii) Scroll Panes	(iv) Tabbed Panes	s. 5
4.	app	w Applets are different from Applet that receive one numeric value torial of that number on the scre	e as input from the use	er and display

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the applet?

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## UNIT-III

- 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?