Roll	No.	:	

Total No. of Questions: 10]

[Total No. of Printed Pages : 2

BPF-2221

M.Sc. (Final) Examination, 2022 COMPUTER SCIENCE

Paper - MCS-203

(For Due and Imp. Students only)

(Java)

Time: 3 Hours] [Maximum Marks: 100

Note: Attempt *five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

Unit-I

- 1. (a) What is a Token? List the various types of tokens supported by Java.
 - (b) Explain in detail about constructor and its types.

10,10

Or

Discuss about method overriding with example. Explain the inheritance concept in Java with its types.

Unit-II

- 3. (a) Write about exception handling mechanism. Give the advantages of exception handling.
 - (b) What is an Interface ? Explain the usage of an interface with an example.

10,10

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4.		e an Applet. Describe the different stages in the life cycle of an applet. aguish between init() and start() methods.	20
		Unit-III	
5.	(a)	Explain how graphics are generated using AWT.	
	(b)	Explain any <i>five</i> swing components. 10,1	.0
		Or	
6.	What	are the benefits of swing over AWT? Write a program to create GUI for	
	websi	ite user registration form in swings.	20
		Unit-IV	
7.	(a)	What are the steps for querying the database with JDBC ?	
	(b)	Explain JDBC architecture with its components. 10,1	0
		Or	
8.		is the purpose of generic servlet? Differentiate HttpServlet class from ic Servlet class. Explain Servlet life cycle with example.	20
		Unit-V	
9.	(a)	How beans are used to build an application? Explain with example.	
	(b)	Define Bean class. Explain in detail about session bean. 10,1	0
		Or	
10.	Defin	e AOP concept in Java. Explain the advantages of AOP with its uses.	20

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