M. C. A. (REVISED)/B.C.A. (REVISED)

Term-End Examination December, 2020

MCS-024 : OBJECT ORIENTED TECHNOLOGIES AND JAVA PROGRAMMING

Time: 3 Hours

Maximum Marks: 100

Weightage: 75%

Note: Question No. 1 is compulsory. Attempt any three questions from the rest of the questions.

- 1. (a) What is Multithreading? How is multithreading supported in Java? 5
 - (b) What is explicit casting? Explain with suitable example.
 - (c) What is the difference between declaring a variable and defining a variable? Explain with the help of an example.

Download all NOTES and PAPERS at Stude

(d)	Explain the following and their usage
	using suitable examples: 5
	(i) Extends
	(ii) Implements
(e)	Write a java program to convert a given
	string to uppercase and also display the
	length of the string. 5
(f)	What is datagram socket? Explain the use
	of datagram cocket with the help of a
	program in ava. 5
(g)	Write a java program to draw a triangle. 5
(h)	What is function overloading? Explain it
	with the help of a program, written in
	java. 5
(a)	How does java application differ from java
	applet ? Do we write "public static void
	main(string args []) in applet? Justify. 5
(b)	Write a java program to copy the text
	content of one file into another file.
	Support your program with suitable

2.

comments.

Download all NOTES and PAPERS at Stude

7

[3] MCS-024

(c)	What is the relation between interface and								
	inheritance	?	Ex	plain	how	mu	ltiple		
	inheritance	can	be	imple	mented	in	Java		
	using interf	ace.					8		

- 3. (a) Explain the life cycle of servlet, along with a program that creates a simple servlet generating HTML write "welcome students".
 - (b) What is an exception? What is runtime exception? Write a java program to search element in a given array with provision of exception handling.
- 4. (a) How java implements the model of interprocess synchronization using threads?Explain with the help of a program. 10
 - (b) What is Inheritance? What are the advantages of inheritance? Write a java program to demonstrate implementation of inheritance.

- 5. Write short notes on the following: $5 \times 4 = 20$
 - (a) Cookies and their role in session handling
 - (b) Layout manager and its role
 - (c) Buffered stream classes and their utility
 - (d) Uses of super keyword
 - (e) Garbage collection

MCS-024 7,750