2022/TDC/ODD/SEM/ BCACC-501T/021

TDC (CBCS) Odd Semester Exam., 2022

COMPUTER APPLICATION

(5th Semester)

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Course No. : BCACC-501T

(Programming in Java)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

UNIT-I

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- 1. Answer any two of the following: $2\times 2=4$
 - (a) What is byte code?
 - (b) How do you perform type casting in Java?
 - (c) Differentiate between JDK and JRE.

(Turn Over)

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2.	Answer any one of the following: 6 COOC		
	(b)	(i) Write a command line Java program to print a message "Hello World".	
		(ii) Write a short note on JVM. 3	
		UNIT—II	
з.	Answer any <i>two</i> of the following: $2 \times 2 = 4$		
	(a)	What is the use of scanner class in Java?	
÷	(b)	What is an array? How do you create an array in Java?	
	(c)	Write down the purpose of This' and Final' keyword.	
1.	Ans	wer any one of the following:	
***	(a)	Explain method overloading and method overriding with examples.	
	(b)	How an object can be passed to and return from a function? Explain with a	

(Continued)

code segment.

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5.	Answer any two of the following : 2×2=4
	(a) State the difference between abstract class and interface.
	(b) Name any two packages and their uses.
	(c) What are autoboxing and unboxing?
6.	Answer any one of the following:
	(a) Illustrate the concept of multithreading in Java. Show with an example, how multithreading works.
	(b) Does Java support multiple inheritance? Write a program to implement single-level inheritance.
Б [*]	UNIT—IV
7.	Answer any two of the following: 2×2=4
	(a) What is exception in Java? What are its

different types?

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Write the uses of JDBC.

Write down the difference between Thread class and Runnable interface.

UNIT—III

2×2=4

(Turn Over)

- 8. Answer any one of the following:
 (a) Create a try block that is likely to generate three types of exception and incorporate necessary catch blocks.
 (b) How can a connection be established with a database in Java?
 UNIT—V
 9. Answer any two of the following: 2×2=4
 - (a) How does AWT differ from Swing?
 - (b) What is applet class?
 - (c) Write down the functions of 'init' and 'paint' method.
- 10. Answer any one of the following:
 - (a) Discuss the life cycle of applet.
 - (b) Using Swing, design a calculator.

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