

B.Sc. Semester-V Examination, 2022-23**COMPUTER SCIENCE (Programme)**

Course ID : 51518 Course Code : SP/CSC/501/DSE-1A

Course Title : Internet Technologies - Theory

OR**Programming in JAVA - Theory**

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*Answer **all** the questions.**(Internet Technologies - Theory)****UNIT-I**1. Answer any **five** of the following questions:

1×5=5

- What is JDBC?
- What is data types in Java script?
- What do you mean by array list?
- When does inheritance require?
- What is exception handling?
- List down two major advantages of jdbc.
- What is http?
- What is web page?

*[Turn Over]***UNIT-II**2. Answer any **two** of the following questions:

5×2=10

- Write a JAVA program to find the largest of n natural numbers..
- Describe how to make a web form with HTML.
- Explain working with result set objects with JDBC.
- Explain with example of implementation SQL statements with JDBC.

UNIT-III3. Answer any **one** of the following questions:

10×1=10

- What is inheritance? describe it.. Write a Java program for the following matrix operation: addition of two matrix, Transpose of a matrix.
- What is polymorphism? Make a HTML program to implement hyperlink. Develop a stand alone Java program for multiple inheritances.

4+6=10
2+6+2=10

(Programming in JAVA - Theory)

UNIT-I

1. Answer any **five** of the following questions:

1×5=5

- a) What is overloading?
- b) What are class and object ?
- c) What do you mean by exception handling?
- d) When does inheritance require?
- e) What is method overloading?
- f) List down two major advantages of use of applet.
- g) What is byte stream?
- h) What is unchecked exception?

UNIT-II

2. Answer any **two** of the following questions:

5×2=10

- a) Write a JAVA program to find largest number.
1+4=5
- b) Describe implementation of inheritance. 5
- c) Explain types of applets. 5
- d) Explain with example of implementation of polymorphism in JAVA. 5

UNIT-III

3. Answer any **one** of the following questions:

10×1=10

- a) What do you mean by JAVA virtual machine?
Develop a stand alone Java program for multiple inheritances. What is overriding? 2+6+2=10
 - b) What is abstract class? Describe interface.
Describe exception handling using try catch method. 2+2+6=10
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