

BANKURA UNIVERSITY

B. Sc. (HONOURS) SECOND SEMESTER EXAMINATIONS, 2021

Subject: Computer Science

Course ID: 21511

Course Title: Programming in JAVA

Full Marks: 25

Time: 1 Hr. 15 Min.

The figures in the margin indicate full marks

Answer all the questions.

UNIT I

1. Answer *any five* of the following questions: (5×1=5)

- a) What is Applet?
- b) What is object?
- c) What is Exception?
- d) What is static method?
- e) What is data encapsulation?
- f) What is Final keyword in Java?
- g) How does String class differ from String Buffer class?
- h) What is Java interface?

UNIT II

2. Answer *any two* of the following questions: (2×5=10)

- a) How to create a package? Explain with example.
- b) How Java supports object orientation? What is thread? (4+1)
- c) Write down a Java program that takes as input two integer values and calculates their LCM and GCD through two different methods.
- d) Write down a Java Applet program that displays the text "This is a Java Applet" in red over a yellow background.

UNIT III

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

(1×10=10)

a) How does the For-Each version of the for loop work in Java? State four similarities between Interface and Classes. Explain wait() and sleep() methods related to thread.

(2+4+4)

b) Write a program to convert lower case string to upper case. Write a program to accept number from user and convert into binary by using Wrapper class methods. What is garbage collection in Java?

(3+4+3)

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