WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 4th Semester Examination, 2022

CMAACOR09T-COMPUTER APPLICATION (CC9)

OOP'S USING JAVA THEORY

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

1.   Answer any *four* questions from the following: 2×4 = 8

   (a) What do you understand by Java Byte Codes?

   (b) State the use of 'instanceof' operator.

   (c) Is there any concept of Destructor in Java? Explain briefly.

   (d) What are the various kinds of Inheritance used in Java?

   (e) What is the use of 'final' keyword?

   (f) What are JAVA packages?

   (g) Why 'main' function is always declared as 'static' in JAVA?

Answer any *four* questions from the following   8×4 = 32

2. (a) What is static method?   2+2+4

   (b) What do you mean by Java's garbage collection?

   (c) Give an example of using 'toString()' method in Java.

3. (a) Give an example of constructor overloading in Java.   4+2+2

   (b) What is the purpose of finalize() method in Java?

   (c) What do you mean by Java Thread?

4. (a) Give an example of dynamic method dispatch in Java.   4+4

   (b) Give an example of using 'parseInt()' method in Java.

5. (a) What do you mean by Java Exception?   2+4+2

   (b) Explain the handling of Arithmetic Exception by using try-catch block with a suitable example program.

   (c) What is the functionality of 'finally' block?

6. (a) Discuss the concept of compiling and execution of a JAVA program.   3+5

    (b) Differentiate between Method Overriding and Method Overloading with proper examples.

7. (a) What are different types of Polymorphism? Explain with example.   6+2

    (b) What is the purpose of 'Scanner' keyword in JAVA program?

8. (a) Write a program in JAVA to demonstrate Multithreading.   5+3

    (b) Differentiate between Errors and Exceptions with suitable examples.

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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