2022

COMPUTER SCIENCE — GENERAL

Paper : DSE-B-2

(Object Oriented Programming)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer **question no. 1** and **any four** from the rest.

1. Answer **any five** questions :   2×5
   (a) What is the use of JDBC?
   (b) What do you understand by JVM?
   (c) What do you mean by data abstraction?
   (d) What is the function of static variable in Java?
   (e) Write the function of super keyword.
   (f) What is an applet?
   (g) What is method overriding?
   (h) What is the utility of final class in Java?

2. (a) What are the advantages of package in Java?
   (b) Why is the main method always static in Java?
   (c) What is the utility of interface?
   (d) Why string is immutable?   3+2+3+2

3. (a) Discuss multilevel inheritance in brief with example.
   (b) What is thread in Java? Write the benefits of using multithreading in Java.   5+5

4. (a) Write a program in Java to find number of words starting with 'S' and 'P' in a string.
   (b) With an example, show the use of relational and assignment operators in Java.   5+5

5. (a) Explain exception handling mechanism in Java.
   (b) What is the function of wrapper class in Java?
   (c) What is the use of finally in Java?   5+3+2

Please Turn Over

6. (a) Write a Java program to check whether a number is palindrome or not.

   (b) What are the types of polymorphism in Java? Explain each of them with an example.   5+5

7. (a) What is copy constructor? Explain with example.

   (b) What are the rules of defining a constructor?

   (c) What is the purpose of default constructor? Explain with an example.

   (d) What is the function of destructor in Java?   3+2+3+2

8. (a) Discuss the features of object oriented programming.

   (b) What are the advantages of using object oriented programming over procedural programming language?

   (c) What is byte code?   4+4+2

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