S-740

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BCA-13

Programming in Java

Bachelor of Computer Science (BCA)

4th Semester, Examination 2022(Dec.)

Time: 2 Hours   Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

Q.1. Which are the eight primitive data types in java? What is the difference between primitive data type and wrapper class?

Q.2. What is class? Declare a class having following data member: roll number, marks in 5 subjects. It also includes member functions to do the following: initializes the data members, computes total marks and average marks, display data members, total marks and average marks. Create a swing applet to input above mentioned data members.

Q.3. What is the purpose of declaring exceptions? How do you declare an exception and where? Can you declare multiple exceptions in a method declaration?

Q.4. Does FileInputstream and FileOutputStream introduce any methods? How do you create a FileInputStream and FileOutputStream?

Q.5. Define the terms abstract classes and interfaces. What are the similarities and differences between abstract classes and interfaces?

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

$$[4 \times 8 = 32]$$

Q.1.   What is byte code and why is it important to java's use for internet programming.

Q.2.   What is interface in java? Explain.

Q.3.   What is vector in java? Differentiate between vector and array in java.

Q.4.   What are the different control statement in Java? Write their syntax.

Q.5.   How will you pass arguments and return values from a method? Give example.

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Q.6. What is an array in Java? How will you declare two dimensional array in Java?

Q.7. How will you create package in Java? Explain with the help of suitable example.

Q.8. What are the different types of exception? Explain.

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