

CBCS SCHEME

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18CS653

Sixth Semester B.E. Degree Examination, Feb./Mar. 2022

Programming in JAVA

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain three OOPs principles. (06 Marks)
- b. Discuss Primitive Data types used in JAVA. (08 Marks)
- c. Explain type conversion in JAVA with example. (06 Marks)

OR

- 2 a. Explain the concept of array in JAVA with example. (08 Marks)
- b. What are keywords and identifiers? List the rules to write identifiers? (06 Marks)
- c. Discuss Lexical issues in JAVA programs. (06 Marks)

Module-2

- 3 a. Explain logical and Bitwise operators with an example. (06 Marks)
- b. Explain switch case with an example. (06 Marks)
- c. List and explain different iteration statement used in JAVA. (08 Marks)

OR

- 4 a. With program explain break, continue and return keywords in JAVA. (06 Marks)
- b. Write a program to calculate the average among the elements 4, 8, 10, 12 using for each in JAVA. (08 Marks)
- c. With an example, explain Ternary operator. Write a JAVA program to find the largest of three numbers using Ternary operator. (06 Marks)

Module-3

- 5 a. Distinguish between Method Overloading and Method Overriding in JAVA, with suitable example. (08 Marks)
- b. What is Inheritance? Discuss different types of inheritance with suitable example. (08 Marks)
- c. Write a note on "Use of this keyword". (04 Marks)

OR

- 6 a. How do you over load constructor? Explain with program. (06 Marks)
- b. Mention and explain the use of super keyword in JAVA. (06 Marks)
- c. Write a program to implement stack operation. (08 Marks)

Module-4

- 7 a. Define package. What are the steps involved in creating user defined package with an example. (08 Marks)
- b. Briefly explain the role of interfaces while implementing multiple inheritance. (08 Marks)
- c. Write a syntax of try and catch block to handle multiple exceptions. Explain. (04 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8=50, will be treated as malpractice.

OR

- 8 a. What is an exception? Explain the different exception handling mechanisms with an example. (08 Marks)
- b. How do you define variables inside interface? List out the characteristics of such variables? (08 Marks)
- c. Differentiate Abstract base class and an interface. (04 Marks)

Module-5

- 9 a. Define an Applet. Write a program to demonstrate simple applet. (08 Marks)
- b. Write a program to read data from an existing file and to display it on console. (08 Marks)
- c. Write the Applet Tag, syntax to execute applet program in browser with explanation. (04 Marks)

OR

- 10 a. List and explain any four constructors of string class with suitable example. (08 Marks)
- b. Write notes on:
(i) Type Wrapper (06 Marks)
(ii) Transient and volatile modifier
- c. Enlist two types of I/O streams with two abstract classes of each in hierarchy. Also give two methods used. (06 Marks)
