

CBCS SCHEME



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18MCA21

Second Semester MCA Degree Examination, June/July 2019 Programming using Java

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain the key attributes of object oriented principles. (06 Marks)
b. What is narrowing and widening? Explain with an example. (06 Marks)
c. Explain the use of break as a form of 'goto' with an example. (08 Marks)

OR

- 2 a. How arrays are defined and initialized in Java? Explain with an example. (08 Marks)
b. Write a short note on : i) finalize() ii) this. (08 Marks)
c. Explain enhanced for loop with an example. (04 Marks)

Module-2

- 3 a. What is string? Explain any four string comparison methods with an example. (10 Marks)
b. Explain the following :
i) Searching string() ii) Modifying string() iii) toCharArray() (10 Marks)

OR

- 4 a. What is method overloading and method overriding? Explain with an example. (10 Marks)
b. What is constructor? Explain constructor overloading with an example. (10 Marks)

Module-3

- 5 a. Define interface. How to implement multiple interfaces in Java. (06 Marks)
b. Explain the following : i) Dynamic method dispatch ii) Abstract class. (10 Marks)
c. What do you mean by static import? (04 Marks)

OR

- 6 a. How super class constructor and members are called in Java? Explain with an example. (10 Marks)
b. Define package. Explain the creation of package and importing package with an example. (10 Marks)

Module-4

- 7 a. What is an exception? Explain the exception handling mechanism with suitable example. (10 Marks)
b. Explain how to create your own exceptions. Give an example. (10 Marks)

OR

- 8 a. Define thread and multi-threading. What are the two ways of creating threads? (10 Marks)
b. Write a Java program using synchronized threads, which demonstrate producer consumer. (10 Marks)

Module-5

- 9 a. What is enumeration? Explain values() and valuesOf() methods with example. (08 Marks)
b. Explain AutoBoxing in Java. (04 Marks)
c. Define Annotation. Explain any four built-in annotations in Java. (08 Marks)

OR

- 10 a. Explain ArrayList class and LinkedList class with an example. (10 Marks)
b. Write a short note on : i) URL connection ii) Collection interfaces. (10 Marks)

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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.