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BCMCAV 254

**Credit Based Fourth Semester B.Com. Degree
Examination, September 2022
(2019-20 and Earlier Batches)
COMPUTER APPLICATION
Paper – VII : Java Programming**

Time : 3 Hours

Max. Marks : 80

PART – A

Answer **any ten** questions from the following :

(10×2=20)

1. a) Define Java tokens. Mention any two tokens.
- b) What is a command line argument ?
- c) Mention any two differences between Java and C.
- d) What is bytecode ?
- e) Write a note on different types of logical operators.
- f) What are the advantages of vector over array ?
- g) Define a constructor. How to call a constructor ?
- h) Differentiate between print() and println() methods.
- i) Define interface. Write the syntax to define interface.
- j) Mention different states of threads.
- k) What is one dimensional array ? Give an example.
- l) What is the usage of finally statement ?

PART – B

Answer **any one full** question from **each** Unit.

Unit – I

2. a) List and explain various datatypes of Java.
- b) Explain any five features of Java.
- c) Explain type conversion in expressions with example.

(5+5+5)

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- 3. a) Explain arithmetic operators with example.
- b) Explain the general structure of a Java program.
- c) Explain JVM with diagram. **(5+5+5)**

Unit – II

- 4. a) Explain the use of break and continue statement in Java.
 - b) Explain the switch statement with syntax and example.
 - c) Explain any two looping statements with syntax and example. **(4+5+6)**
- 5. a) Compare and contrast overloading and overriding of methods.
 - b) What is inheritance ? Explain single inheritance with example.
 - c) Explain the different forms of if statement in Java. **(4+5+6)**

Unit – III

- 6. a) Explain how to implement interface with example.
 - b) Explain how to add a new class to an existing package.
 - c) Explain how to create a package with example. **(5+5+5)**
- 7. a) Explain how to extend an interface.
 - b) Write a note on Java API packages.
 - c) Explain the different package access protection modifiers. **(5+5+5)**

Unit – IV

- 8. a) Explain exception handling concept with syntax and example.
 - b) Explain the thread priority concept with an example. **(7+8)**
- 9. a) Explain multiple catch block concept with an example.
 - b) Explain life cycle of thread with neat diagram. **(7+8)**
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