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BCACAC 314

Credit Based Fifth Semester B.C.A. Degree Examination, April 2021 (Semester Scheme) (Common to all Batches) JAVA PROGRAMMING

Time: 3 Hours

Max. Marks: 100

Instruction: Answer any ten questions from Part – A and one full question from each Unit of Part – B.

PART - A

1. a) What is Java Bytecode?

(10×2=20)

- b) What is data Encapsulation?
- c) Differentiate byte and character streams.
- d) List any four methods associated with string class.
- e) Differentiate public and private access modifiers.
- f) List any two features of static methods.
- g) What are the different methods of creating threads?
- h) What is the purpose of wait() and notify() methods?
- i) List any four types of built in exceptions in Java.
 - j) What is applet? List its types.
 - k) What is an event? Give example.
 - I) What are containers? Mention its types.

PART - B

UNIT-I

- 2. a) Explain byte and character streams available in Java.
 - b) List and explain any five features of Java.
 - c) Explain labelled 'break' and labelled 'continue' statements with suitable example.
 - d) Explain 'switch' statement with syntax and example.

(5+5+6+4)

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- 3. a) Explain the 'while' and 'do . . . while' statement with syntax and example.
 - b) With a suitable example, explain the process of reading a string from the keyboard.
 - c) List and explain any five primitive data types available in Java.
 - d) Explain different forms of 'if' statements with syntax.

(6+4+5+5)

UNIT - II

- 4. a) Explain single inheritance with suitable example.
 - b) With a suitable example, explain the uses of various types of constructors.
 - c) What is method overloading? Explain with an example.
 - d) Explain the purpose of 'abstract' and 'final' classes.

(6+6+4+4)

- 5. a) Explain multi-level inheritance with a suitable example.
 - b) How do you return an object from a method? Explain with a suitable example.
 - c) With a suitable example, explain how to pass variable-length arguments in java. (8+6+6)

UNIT - III

- 6. a) Explain the process of creating a thread in java with suitable example.
 - b) Illustrate the use of multiple 'catch' statements with suitable example.
 - c) Define synchronization. With an example explain how the threads are synchronized in multithreading environment using synchronization method. (8+6+6)
- 7. a) Explain the method of creating and implementing interface with a suitable example.
 - b) Explain how to create and use package in Java with an example.
 - c) With a suitable example, explain exception handling in Java.

(8+6+6)

UNIT - IV

- 8. a) Describe the method of passing parameters to an Applet with an example.
 - b) How do you handle Mouse events in Applets? Illustrate with an example.
 - c) Write a note on : i) Button ii) JTextfield.

(8+6+6)

- 9. a) Describe the purpose of different layout managers available in Java AWT.
 - b) With an example, explain the functioning of JCheckBox.
 - c) Explain Menu creation in java with an example.

(8+6+6)