COPYRIGHT RESERVED Voc(Sem-II) — BCA (CC - 3)

2024

Time: 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Parts as directed.

Part - A

Choose the correct answer of the following:

 $1 \times 5 = 5$

- (a) The size of chordata type in JAVA is:
 - (i) One byte
 - (ii) Two byte
 - (iii) Four byte
 - (iv) None of these
- (b) Automatic type conversion is possible in which of the possible cases?
 - (i) Byte to int

- (ii) int to long
- (iii) Long to int
- (iv) Short to int
- (c) Which of the following is not a JAVA feature?
 - (i) Dynamic
 - (ii) Use of Pointers
 - (iii) Architecture Neutral
 - (iv) Object Oriented
- (d) A Package in JAVA is a collection of :
 - (i) Classes
 - (ii) Interfaces
 - (jii) Classes and interfaces
 - (iv) None of these
- (e) When is the object created with new keyword?
 - (i) At run time
 - (ii) At compile time
 - (iii) Both (i) and (ii)
 - (iv) None of these

- 2 State whether the following statements are
 True or False: 1×5 = 5
 - (a) The wrapping of data and methods into a single unit is called inheritance.
 - (b) Java compiler converts the Java source code into byte code.
 - (c) Finally block in exception handling is executed only when exception is handled.
 - (d) Constructor overloading is not possible in JAVA.
 - (e) Assignment operator is evaluated from left to right. P

Part - B

Answer any four questions of the following:

 $5 \times 4 = 20$

- 3. Write a program to check whether an inputted number prime or not.
- 4. Explain different access modifiers in JAVA.
- 5. Explain constructor with an example.
- 6. Demonstrate polymorphism in JAVA.

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(3)

(Turn over)

Define the following:

- (a) Public
- (b) Private
- (c) Protected
- 8. Write short note on Break Statement.

Part - C

Answer any four questions of the following:

 $10 \times 4 = 40$

- Explain exception handling in JAVA with suitable example.
- 10. Explain properties of JAVA.

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- 11 Explain different types of inheritence in JAVA.
- 12. Write a program in JAVA to explain overriding methods.
- 13. What is a Thread? Describe the life cycle of a thread with the help of block diagram.
- Explain various methods of applet class with examples.

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