

COPYRIGHT RESERVED

**End Sem(III) —
IT (CC – 5)**

2021

Time : 3 hours

Full Marks : 60

*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 both the Groups as directed.

Group – A

(Very Short-answer Type Questions)

1. Attempt all questions of the following : $1 \times 10 = 10$
 - (a) What is Package ?
 - (b) What is Class ?
 - (c) What is Object ?
 - (d) What is garbage collection in java ?
 - (e) When can you use the super keyword ?

SQ – 91/1

(Turn over)

- (f) What is JVM ?
- (g) What is the purpose of JRE ?
- (h) What do you mean by encapsulation ?
- (i) What do you mean by an interface in Java ?
- (j) What is debugging ?

2. Short answer type questions of the following :

$$2\frac{1}{2} + 2\frac{1}{2} = 5$$

- (a) What is the relation between Interface and Class ?
- (b) Explain how multiple inheritance can be implemented in Java using interface.

Group – B

(Descriptive Type Questions)

Answer any **three** questions of the following :

- 3. (a) What is Object Oriented ? Define use of final reserved word in Java. 5
- (b) Compare Object Oriented and Procedure Oriented approaches. Give salient features of both. 10
- 4. (a) State important features of java. 5

SQ – 91/1

(2)

Contd.

- (b) What is a Thread ? Describe the complete life cycle of thread. 10
5. (a) What is Inheritance ? What are the advantages of inheritance ? 5
- (b) Write a java program to demonstrate implementation of inheritance. 10
6. (a) What is an Exception ? Define the types of exception ? 5
- (b) Write a java program to search element in a given array with provision of exception handling. 10
7. (a) What is an Applet ? How do applets differ from application programs explain with example ? $2\frac{1}{2}$
- (b) Give use of 'this' keyword in Java with suitable example. $2\frac{1}{2}$
- (c) Describe steps to create and access user defined packages. 10

