2019/TDC/ODD/SEM/CSCHCC–301T/183

TDC (CBCS) Odd Semester Exam., 2019

COMPUTER SCIENCE

(3rd Semester)

Course No. : CSCHCC–301T

(Programming in JAVA)

Full Marks : 50
Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—I

1. Answer any *two* questions of the following : 2×2=4

   (a) What are the various data types used in JAVA programming?

   (b) What are the differences between JAVA and C++?

   (c) Write a JAVA program to display "Hellow world".

(Turn Over)

2. Answer any *one* question of the following :　6

(a) How does the JAVA handle its control statement? Write a JAVA program that uses a block of code as the target of a for loop.

(b) Discuss the major features of JAVA.

UNIT—II

3. Answer any *two* questions of the following : 2×2=4

(a) What is class? How is an object created from a class in JAVA?

(b) What is array? Give an example of array-based program segment.

(c) What does final class signify?

4. Answer any *one* question of the following :　6

(a) Compare constructor and destructor using example program.

(b) What is string in JAVA? Write a JAVA program that shows the manipulating strings.

UNIT—III

5. Define any *two* of the following using example :　2×2=4

(a) Plain box and weight box

(b) Package

(c) Interface

6. Answer any *one* question of the following :　6

(a) With a code segment, differentiate between—

(i) method overloading and method overriding;

(ii) abstract class and interface.

(b) Why does JAVA not support multiple inheritance? Write a code which will implement multilevel inheritance.

UNIT—IV

7. Answer any *two* questions of the following : 2×2=4

(a) What is thread? How do you create a thread?

(b) What is JDBC?

(c) What are checked and unchecked exceptions?

8. Answer any *one* question of the following : 6

(a) Explain exception handling mechanism in JAVA. Write a program.

(b) How can a database connection be established in JAVA? Explain.

UNIT—V

9. Answer any *two* questions of the following : 2×2=4

(a) Define JAVA applets. How does it work with graphics?

(b) State the different functions that are used in applet.

(c) Define container class.

10. Answer any *one* question of the following : 6

(a) Design a calculator using applet. Incorporate suitable code against each AWT control.

(b) What is swing? Write a program in JAVA using swing.

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