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Fifth Semester B.E. Degree Examination, June/July 2018 Programming in Java

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Explain three OOP principles. (06 Marks)
b. Describe the process of building and running java program. (04 Marks)
c. What is typecasting? Explain explicit type casting with example. (06 Marks)

OR

- 2 a. List and explain control statements in Java. (06 Marks)
b. What is an array? Explain types of array. (05 Marks)
c. With the help of program, explain scope and life time of variables. (05 Marks)

Module-2

- 3 a. Explain the following with example:
(i) << (ii) >> (iii) % (06 Marks)
b. Explain Jump statements with example. (10 Marks)

OR

- 4 a. Explain briefly bitwise logical operators. (06 Marks)
b. What is for each version of loop? Write a java program to find sum of first five numbers using for each loop. (05 Marks)
c. With the help of program, explain Nested switch. (05 Marks)

Module-3

- 5 a. What is constructor? Explain parameterized constructor with an example. (06 Marks)
b. What is super? Discuss two uses of super with suitable program. (10 Marks)

OR

- 6 a. Distinguish between method overloading and method overriding. Write a java program to demonstrate the use of method overriding. (07 Marks)
b. List and explain the uses of keyword final. (05 Marks)
c. What is instance variable hiding? How to overcome it? (04 Marks)

Module-4

- 7 a. What is an Exception? Explain different exception handling mechanisms. (08 Marks)
b. What is an interface? Write a java program to implement stack operations using interface. (08 Marks)

OR

- 8 a. What is package? With the help of Java program, explain the process of defining and executing package. (08 Marks)
b. What are chained exceptions? What are the different constructors used in throwable class? Write a java program to demonstrate the concept of chained exceptions. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.

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Module-5

- 9 a. What is an enum? Write a java program to demonstrate values() and valueOf() methods. (06 Marks)
- b. Write a java program to sort string elements using bubble sort. (04 Marks)
- c. Explain the following with syntax:
- (i) charAt()
 - (ii) regionMatches()
 - (iii) toCharArray()
- (06 Marks)

OR

- 10 a. Define an Applet. Write an applet program to display the message "VTU BELAGAVI". Set background and foreground to Cyan and Red respectively. (06 Marks)
- b. What are type wrappers? Write a java program to demonstrate the concept of type wrappers. (04 Marks)
- c. Explain the following String Buffer methods:
- (i) codepointAt()
 - (ii) indexOf()
 - (iii) trimToSize()
- (06 Marks)

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