

6E6094

Roll No. _____

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6E 6094**B.Tech. VI Semester (Old Back) Examination, May-June 2015****Computer Science & Engineering****6CS4(O) Programming In Java****CS,IT****Time : 3 Hours****Maximum Marks : 80****Min. Passing Marks : 24****Instructions to Candidates:**

*Attempt any **five** questions, selecting **one** question from **each** unit. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly*

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Unit-I

1. a) What do you mean by object oriented programming ? What are its principles? Explain the features of JAVA that are supported by oops principles ? **(10)**
- b) Explain how type casting and type conversion is implemented in JAVA. **(6)**

OR

1. a) Explain the following operators in JAVA.
- i) Bit wise operator
 - ii) Boolean operator
 - iii) Relational operators
 - iv) Arithmetic operators. **(2×4)**
- b) Describe the followings:
- i) JAVA byte code rtuonline.com
 - ii) JAVA virtual machine **(2×4)**

Unit-II

2. a) Describe the following selection statements in JAVA - (using an examples).
i) If-else-if ladder **rtuonline.com**
ii) Switch statement **(2×4)**
- b) What is single and multilevel inheritance in JAVA. Explain using a suitable example **(8)**

OR

2. a) How objects are used as parameters in JAVA . Explain using an appropriate example. **(8)**
- b) Describe the overloading and overriding methods in Java. **(8)**

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Unit-III

3. a) What is a packages? How it is defined in JAVA. How does the JAVA run time system know where to look package that you create? **(8)**
- b) How interfaces are implemented in JAVA. **(8)**

OR

3. a) What are the various operations defined on strings' In JAVA. **(8)**
- b) Explain string buffer class in Java using an appropriate example. **(8)**

Unit-IV

4. Explain the following statements: **rtuonline.com**

- i) Try
ii) Catch
iii) Throw
iv) Finally **(4×4)**

OR

4. Explain file handling in JAVA. Give an example that shows all the operations that are performed on file in JAVA. **(16)**

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5. What is a thread? How it is different from a process? How thread is defined in JAVA? Explain thread synchronization and thread join in JAVA using suitable examples. (2+2+2+5+5)

OR

5. What are applets in JAVA. List the advantages of using applets. Describe the paint method using an example. (4+4+8)

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