

B. N. Bandodkar College of Science, Thane

S. Y. B. Sc. Semester IV Examination, March 2014

Course Code: USCS402

Duration: 2 Hrs.

Total Marks: 60

- Note:**
- i. All questions are compulsory.
 - ii. Figures on right indicate maximum marks.

Q. 1 a Differentiate between Java and C++. What is JVM (Java Virtual Machine). **8**

OR

a Compare in terms of their functions, the following pairs of statements: **8**

i. While and do...while loop

ii. Break and continue

b What is Class? What is method? Write a JAVA program to explain method with pass by value and pass by reference. **7**

OR

b What are constructor and destructor? Write a JAVA program to demonstrate constructor overloading. **7**

Q. 2 a What is an interface? How to implement interface? Give example of JAVA code. **8**

OR

a What is Package? Write a JAVA program to demonstrate use of package. **8**

b What is exception handling? How to handle exceptions? Explain with a program. **7**

OR

b Describe about the different Input and Output streams and their classes. **7**

Q. 3 a Explain about the usage of text field and text area in java with an example. **8**

OR

a What is event handling in JAVA? List *any three* listener interfaces with suitable examples. **8**

b Explain about AWT and AWT controls. **7**

OR

b Discuss about Applet Life Cycle and passing parameters to applet. Write a code to demonstrate it. **7**

Q. 4 a Write a JAVA program to demonstrate inheritance in JAVA. **8**

OR

a What are access specifiers in JAVA? Explain various access specifiers with an example. **8**

b Differentiate between JAVA Applet and Applications. **7**

OR

b Explain the features of JAVA language. **7**