

B. N. Bhandodkar College of Science, Thane
S. Y. B. Sc. Semester IV Examination, March 2015
Course Code: USCS402

Duration: 02.30 Hrs

Total Marks: 75

Q.1 Answer the following:

- a. List down all the difference between Java and C++? 08

OR

- a. What is an array? Explain how to declare one and two dimensional array in java with example? 08

- b. What is type casting? Explain with an example? 07

OR

- b. Explain working of JVM? 07

- c. Write a program in java to compute the factorial of a given number? 05

OR

- c. What is method overriding? 05

Q.2 Answer the following:

- a. What is the difference between final, finally and finalize? 08

OR

- a. Define a package, and give the list of steps used to create a package in Java. Explain with a sample code? 08

- b. Define an exception called 'NOMATCHEXCEPTION' that is thrown when an string is not equal to "India" write a program that uses this exception? 07

OR

- b. Explain byte and character stream classes in java with example? 07

- c. What is finalize () and Garbage Collection? 05

OR

- c. What is the use of super and extends keywords in java? 05

Q.3 Answer the following:

- a. Describe the various section of web page? 08

OR

- a. Define frames with example? 08

- b. How to pass a parameter to applet? Explain with the help of example? 07

OR

- b. Explain various AWT Controls? 07

- c. Define 05

a. ActionEvent b. FocusEvent c. KeyEvent d. MouseEvent

OR

- c. Define any three Listener interface? 05

Q.4 Answer any THREE of the following:

15

- a. Write a program in java to implement the concept of interface in java?

- b. What is Constructor in java? Why constructor does not have return type in java? Explain it with proper example

- c. What are objects? How are they created from class?

- d. Explain various methods of reader and write classes in java?

- e. Explain constructor overloading?

- f. What is a finally block? When and how it is used?