

Faculty of Engineering and Technology

Fifth Semester B.E. (Information Technology)

(C.B.S.) Examination

JAVA PROGRAMMING

Time : Three Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

(1) All questions carry marks as indicated.

(2) Assume suitable data wherever necessary.

(3) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Explain features of Java programming. 5

(b) State true or false. Justify your answer “Java is platform independent”. 4

(c) Explain method overloading with example. 4

OR

2. (a) What are different operators used in Java ? 4

(b) Explain Garbage Collection in Java. 4

(c) What is constructor ? Explain with example. Also explain types of constructor. 5

(b) Describe the main features of the java.io package.

4

(c) Explain the following methods :

(i) instanceof ()

(ii) strcmp ()

(iii) native ().

5

11. (a) Explain difference between AWT and Swing. 5

(b) Explain the Layout Managers with example. 8

OR

12. (a) Explain container and component of Swing. 4

(b) Explain the following controls :

(i) Jscroll Panes

(ii) Tabbed Pane

(iii) J Combo box.

6

(c) Explain Event Handling.

3

3. (a) Explain Vector class with example. 4
 (b) Write a program in Java to sort the elements of Array in ascending order using bubble sort. Read the number of elements using command line argument. 7
 (c) Explain the use of valueOf(). 2

OR

4. (a) State the difference between String and StringBuffer. Class. 3
 (b) Write a program using method compareTo() to compare two string entered by user. Explain the output generated by program. 5
 (c) Explain the methods used for appending, inserting and deleting characters in String Buffer. 5
5. (a) Explain the user defined exception in Java with example. Also explain the use of finally block. 6
 (b) What is package ? Explain its importance. Give the steps involved in creating package with example. 8

OR

6. (a) Write a program in Java : A class "employee" contains two fields 'Name' and 'Designation'

extends the class to 'Department' it contains 'Dept-No' and 'Dept-Name.' An interface named as company contains one field 'Name-of-the-company.' Using the above classes and interface get the appropriate information and display it.9

- (b) Explain Access Protection in Java. 5
7. (a) Describe the complete life cycle of a thread. 6
 (b) What is synchronization ? Explain Interthread communication. 7

OR

8. (a) Develop a simple real life application program to illustrate the use of multithreading. 6
 (b) What is thread priority ? Explain with example. 7
9. (a) Write a program to copy a file from copy 1.txt to copy2. txt. 5
 (b) What is stream class in Java ? Explain input and output stream with illustration. 6
 (c) Explain volatile and transient modifier. 3

OR

10. (a) Write a program to delete only those files whose extension is 'HTML' in C :\ java directory. 5