

AU-282

M.Sc. (Part-I) Semester-I (C.B.C.S. Scheme) Examination

COMPUTER SOFTWARE (New)

(Advanced Programming in Java)

Paper-1 MCSW 1

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) All questions are compulsory.

(2) Assume suitable data wherever necessary.

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

1. (A) Explain :

(i) JDK

(ii) Garbage collection

(iii) Package.

6

(B) Write a program in Java to display the following pattern for the input provided by the user :

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

8

OR

2. (A) What are command line arguments ? Write a program to demonstrate use of command line arguments. 5

(B) Explain :

(i) Modifier

(ii) Class method

(iii) JVM.

9

3. (A) How strings are handled in Java ? Explain. 8
 (B) Explain :
 (i) try
 (ii) throws
 (iii) finally. 6

OR

4. (A) How multiple inheritance is done in Java ? Explain. 5
 (B) Explain :
 (i) Uncaught Exception
 (ii) Throw
 (iii) Super. 9
5. (A) How components can be placed on a container without using layout manager ? Explain. 6
 (B) Write a program to demonstrate use of mouse event. 7

OR

6. (A) Write a program using applet in Java to display "Hello Word" using Times New Roman font and Red color. 7
 (B) What are dialog boxes ? Explain with example. 6
7. (A) State and explain life cycle of a servlet. 5
 (B) Explain :
 (i) JApplet
 (ii) Scroll panes. 8

OR

8. (A) State and explain the difference between the doGet() and doPost() methods of servlet. 5
 (B) Explain any four methods of Response object of HTTP servlet. 8

9. (A) What are stored procedures ? How they are used in JDBC ? Explain. 6
(B) Write a procedure to connect Java program with database using JDBC driver. 7

OR

10. (A) Write a JDBC program to insert student record. Assume suitable data. 7
(B) What is connection pooling ? Explain. 6
11. (A) Explain :
(i) Stub
(ii) Skeleton. 8
(B) What is RMI ? Explain. 5

OR

12. (A) What are sockets ? State and explain their working. 6
(B) What is EJB ? Explain. 7

