

**M.Sc. Semester—I (CBCS Scheme) Examination**  
**COMPUTER SOFTWARE (New)**  
**(Advanced Programming in Java)**  
**Paper-1MCSW1**

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) Java interpreter

(ii) Javac

(iii) Javadoc

(iv) Javap.

8

(B) Write a program to check whether the number provided by the user is palindrome using command line argument. 6

**OR**

2. (A) What is Package ? Write a procedure to create user defined package. 5

(B) What are parameterised constructors ? Explain with example. 5

(C) Explain :

(i) Import

(ii) Array of object.

4

3. (A) How constructor calling is done in an inheritance ? Explain with example. 7

(B) Write a program to count vowels in a string. 7

**OR**

4. (A) How exception handling is done in Java ? Explain. 7

(B) What is thread ? How threads are created in Java ? Explain. 7

5. (A) What is event delegation model ? Explain. 7

(B) State and explain the life cycle of an applet. 6

**OR**

6. (A) Explain :

(i) Dialog box

(ii) Paint ( )

(iii) Repaint ( )

(iv) AWT.

8

(B) How menus are created in Java ? Explain. 5

7. (A) State and explain any four methods of HTTP servlet request object. 7  
(B) Explain the controls :  
(i) tree  
(ii) table 6

**OR**

8. (A) Explain :  
(i) combo box  
(ii) tabbed panes. 6  
(B) Write a servlet to display current time of the day. 7  
9. (A) What is JDBC ? Explain types of JDBC drivers. 7  
(B) How to insert a record in database table using prepared statement ? Explain with example. 6

**OR**

10. (A) Describe the working of callable statement. 7  
(B) State and explain types of result set. 6  
11. (A) Write a program to demonstrate use of socket in Java. 7  
(B) What are stubs ? Explain. 6

**OR**

12. (A) Explain :  
(i) Bean persistence  
(ii) Bean introspection. 8  
(B) Explain the Architecture of Java bean. 5