

AQ-948

M.Sc. Part-I Semester-II (CBCS Scheme) Examination
COMPUTER SCIENCE
(Java Programming)
Paper—2 MCS 1

Time : Three Hours]

[Maximum Marks : 80

Note :- (1) Due credit will be given to neatness and adequate dimensions.

(2) Assume suitable data wherever necessary.

(3) All questions are compulsory.

1. (a) Explain with example :

(i) keywords

(ii) variables

(iii) constants.

6

(b) Explain with example, the switch statement.

8

OR

2. (a) What is Java ? Explain its applications.

6

(b) Write a program in Java to find a factorial of given integer using do-while loop.

8

3. (a) What is Constructor ? Is it possible to overload a constructor ? If yes, what is its necessity ? Explain with example. 7
- (b) How do we pass objects as parameters to the method ? Explain using suitable example. 7

OR

4. (a) Explain :
- (i) Recursion
- (ii) Garbage collection 7
- (b) Explain access control mechanism of a Java class. 7
5. (a) What is package in Java ? What are its applications ? How do we use them ? 6
- (b) What is meant by an interface ? How do we implement it ? Explain. 7

OR

6. (a) What is meant by method overriding ? Explain by means of suitable example. 7
- (b) Explain with example, any six methods of string class. 6
7. (a) What is meant by Applet ? Explain with suitable example. 7
- (b) Explain any four methods of color class. 6

OR

8. (a) What is Grid layout ? Write a program that creates a 4×4 grid and fills it in with 15 buttons labeled with index. 8
- (b) Explain any one AWT class with its primary methods. 5
9. (a) Describe the Java's way of exception handling. 6
- (b) Explain in brief Java I/O classes and interfaces. 7

OR

10. (a) What is the purpose of multiple catch clauses ? Explain with example. 7
- (b) Explain any three methods of thread class. 6
11. (a) Explain any three controls supported by AWT. 6
- (b) What are Adapter classes ? Describe its purpose. 7

OR

12. Write a suitable Java program to handle mouse events. 13