



- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagrams wherever necessary.

Either:

1. a) Explain Java virtual machine in detail. 5
b) What is array? Explain one dimensional array with example. 5

OR

- c) Write a program using else. If ladder for grading the student in an academic institute. The grading is done according to the following rules. 5

Average marks	Grade
80 to 100	Honors
60 to 79	First Division
50 to 59	Second Division
40 to 49	Third Division
0 to 39	Fail

- d) Write a detailed note on for loop with example. 5

Either:

2. a) Explain class with syntax and example. 5
b) Write a program in java to illustrate overriding. 5

OR

- c) Write a program in java to demonstrate constructor overloading. 5
d) Discuss static method in java. 5

Either:

3. a) How user can create own exception? Explain. 5
b) Explain thread priorities in detail. 5

OR

- c) Write a program to demonstrate use of different methods of thread class. 5
d) How to create multithreading application? Explain. 5

Either:

4. a) Explain Applet life cycle in detail. 5
b) Describe frames in AWT with suitable example. 5

OR

- c) Write a program in java to demonstrating panel and Text area using null layout. 5
d) Explain Event Delegation model. 5

5. a) Write a note on if-else. 2½
b) Explain finalization in java. 2½
c) Write a note on catch block. 2½
d) Explain Grid layout in AWT. 2½
