



- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

Either:

1. a) Explain any two conditional statements in JAVA. **8**
b) Write a detail note on Garbage collection in JAVA. **8**

OR

- c) What do you mean by Exception Handling? Explain Try-Catch Block. **8**
d) Explain Life cycle of Thread in detail. **8**

Either:

2. a) Explain creation of font object in Java with example. **8**
b) Explain various components available in AWT Package. **8**

OR

- c) Explain Border Layout Manager with example. **8**
d) Write a program in Java using frame object display menu "File" with menu item "New", "open", 'close' and exit. **8**

Either:

3. a) Explain Types of Drivers in JDBC-ODBC. **8**
b) Write a detail note on Query Execution. **8**

OR

- c) Explain JDBC Configuration in detail. **8**
d) Write a Program to Demonstrate JDBC Connectivity with MS-Access. **8**

Either:

4. a) Explain Servlet life cycle in detail. **8**
b) Write a detail note on Session tracking using HTTP Servlet. **8**

OR

- c) What do you mean by JSP? Explain its advantages with respect to JAVA. **8**
- d) Explain Tags and Session in JSP with example. **8**

5. Attempt all the questions.

- a) Explain Runnable interface in brief. **4**
- b) Write note on Event Handling in short. **4**
- c) Write short note on Collection Framework. **4**
- d) Write a short note on Cookies. **4**
