

Total No. of Questions : 12]

P-3362

SEAT No. :

[Total No. of Pages : 2

[6006]-49

F.Y. M.C.A. (Engineering)

JAVA PROGRAMMING

(2020 Pattern) (Semester - II) (310914)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right side indicate full marks.
- 3) Assume Suitable data if necessary.

- Q1) a) Explain the concept of multiple inheritances in java. ✓ [6]
b) Write a program in Java to handle exception with finally block. ✓ [6]

OR

- Q2) a) Write down the difference between throw and throws keywords in Java. [6]
b) Explain the concept of static Members and member function of Java. [6]

- Q3) a) Explain the thread life cycle in detail. [6]
b) Explain java.io package. Write any 2 methods from Buffered Input Stream, Buffered Writer classes. [6]

OR

- Q4) a) Write a note on - Random Access File Class. [6]
b) Explain the concept of Byte stream and character stream. [6]

- Q5) a) Write any 6 basic components of AWT. [6]
b) What is an use of applet viewer in Java? How to create your own Applet program. [5]

OR

- Q6) a) Write a short note on applet Life Cycle. *init, start, run, stop, destroy* [6]
b) Illustrate different types of containers in AWT. [5]

P.T.O.

- Q7) a) Define JDBC driver. Explain the concept of JDBC classes in details. [6]
b) Write down the step to establish the JDBC connection in Java with suitable example. [6]

OR

- Q8) a) Illustrate the popular interfaces of JDBC API. [6]
b) Write a program to retrieve Contents of a Table Using JDBC connection. [6]

- Q9) a) Write a note on Java Networking concept. [6]
b) What is class URL? What is the difference between URL and URL connections. [6]

OR

- Q10) a) What is Datagram socket? How does the Datagram work? [6]
b) Describe any 3 Classes of java.net Package. [6]

- Q11) a) Illustrate the use of Life cycle of Servlet. [6]
b) Discuss the various components of architecture of JSP. [5]

OR

- Q12) a) List out the tabular difference between Servlet and JSP. [6]
b) What is Servlet in Java? How does a Servlet Request flow? [5]

x x x