

Total No. of Questions : 12]

SEAT No. :

P1794

[4761] - 201

[Total No. of Pages : 2

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

JAVA PROGRAMMING

(2013 Course) (Semester - II) (310909)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assuem Suitable data if necessary.*

- Q1) a) Explain the structure of a Java Program with suitable diagram. [4]**
b) What are command-line arguments and how are they used in Java? [4]

OR

- Q2) a) What are shift operators? How many shift operators are available in Java? [4]**
b) Discuss any two tools available in JDK. [4]

- Q3) a) What is a Constructor? Explain parameterized constructor with the help of example. [4]**
b) Explain static keyword. [4]

OR

Q4) What are Interfaces? Write a program to demonstrate Extending Interfaces.[8]

- Q5) a) What is a package? How are they created and used? [4]**
b) What is Single Inheritance? Explain with the help of example. [5]

OR

- Q6) a) Explain the use of final keyword with the help of example. [4]**
b) Explain the invocation of default constructor in Multiple Inheritance. [5]

P.T.O.

- Q7) a)** Explain the life cycle of a thread with diagram. [5]
b) What is an Predefined Exception? Name any three predefined exceptions? [4]

OR

- Q8) a)** What is a Thread? Explain any two thread methods with example. [5]
b) What is thread priority? How can it be set for a thread? [4]

- Q9) a)** What is Java Applet? Describe the complete life cycle of an Applet. [5]
b) Name any three Listeners used in java. [3]

OR

Q10) Create an Applet to draw a rectangle. Draw a filled circle inside the rectangle. [8]

- Q11)a)** Why are swing components termed as lightweight? [4]
b) Write Short notes on [4]
i) JScrollPane
ii) JList

OR

Q12) Create an GUI using Swing to input five numbers in five textboxes from user and when user will click the add button, display the addition of five numbers in a label. [8]

