

Total No. of Questions :12]

SEAT No. :

P598

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[Total No. of Pages : 2

[4461] - 45

S.Y. M.C.A. (Faculty of Engineering) (Semester - IV)

JAVA PROGRAMMING

(2008 Course) (Theory)

Time : 3 Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate books.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.
- 5) Answer 3 questions from each section.

SECTION - I

- Q1) a) What's the difference between an interface and an abstract class? Also discuss the similarities. [5]
- b) What is Thread? Explain life cycle of thread along with diagram. [6]

OR

- Q2) a) What is inheritance? With example explain use of super keyword in it. [5]
- b) What is package? How to define and use package in java? Explain usage of CLASSPATH variable. [6]

- Q3) a) Explain delegation event model. [6]
- b) What is the difference between Swing and AWT? Explain use of JFrame and JTabbedPane Swing control. [6]

OR

- Q4) a) What are different layout managers? Explain border layout manager in detail. [6]
- b) Design an application to display button with an image on it using swing. The image on the button will change when the button is clicked. [6]

- Q5) a) Write an applet program to display a button, set background image and play audio file when the button is clicked. [6]
- b) What is an Applet? Should applet have constructor? Explain various HTML applet tags. [6]

OR

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- Q6) a) How to pass parameter to applet? Explain with example. [6]
b) What is the difference between stop() and destroy(), init() and start() method? [6]

SECTION - II

- Q7) a) What is ObjectOutputStream and ObjectInputStream class? Explain five methods of these classes. [6]
b) What is the utilization of file class? Explain different constructors associated with file class. [5]

OR

- Q8) a) Distinguish between
i) InputStream and Reader classes
ii) OutputStream and writer classes [6]
b) What interfaces are implemented by RandomAccessFile class? Explain methods of RandomAccessFile class. [5]

- Q9) a) Classify JDBC drivers types according to their architecture. [6]
b) Write a java program to insert student details like roll number, name, contact number, address, marks into the database. [6]

OR

- Q10) a) What is the use of PreparedStatement class and how to retrieve data from resultset? [6]
b) What is meta data? How metadata is obtained using ResultSetMetaData class? [6]

- Q11) a) Give sequential steps to establish connection between client and server socket. [6]
b) Describe use of following classes [6]
i) InetAddress?
ii) Socket?

OR

- Q12) a) Explain URL and URL connection class. [6]
b) What is network socket? Also give use of server socket and client socket. [6]

