

Printed Pages - 3

NMCA-314

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2012363

Roll No.

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MCA

Regular Theory Examination (Odd Sem - III), 2016-17

INTERNET AND JAVA PROGRAMMING

Time : 3 Hours

Max. Marks : 100

Section - A

1. Attempt all Parts. All parts carry equal marks.

Write answer of each part in short. (10×2=20)

- Define Internet and Intranet.
- What is E-mail systems?
- State the working of web browser?
- Define a Package. How it is helpful in programming?
- What are the advantages of using JDBC with java?
- Differentiate between Java Swing and AWT.
- How JAR files works?

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- h) What is an Enterprise Java Bean?
- i) Write any two advantages of JSP over Servlet?
- j) What do you mean by HTTP redirects?

Section - B

Note: Attempt any five questions from this section.

(5×10=50)

- 2. Describe SMTP in detail?
- 3. What are the hardware & Software requirements of video conferencing?
- 4. Explain the data types in Java with suitable example? Write a program to addition of two[2×2] matrix in Java.
- 5. What is multithreading in Java? Explain it with example.
- 6. What is the main difference between an application program and applet program? What are the advantages of Java Swing over JavaApplet?
- 7. Write short notes on the following:
 - i) Toggle buttons
 - ii) Combo box
 - iii) Tabbed panes
 - iv) Scroll panes
- 8. What is a Java Bean? Discuss its and advantages.

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9. What do you mean by Servlet Context? How it is different from Servlet Config with an example.

Section - C

Note: Attempt any two questions from this section.

(2×15=30)

10. What are the various characteristics of JDBC? Identify the various steps for using JDBC. Explain the working of JDBC Drivers?
11. Define Servlet. Explain the life cycle of servlet. Write a login web page using jsp with the help of servlet.
12. What do you understand by event handling in Java? Explain mouse or keyboard events with an example.?

