KUMARAGURU
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Register Number: ………………….
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B.E DEGREE EXAMINATIONS: NOV 2015

(Regulation 2009)

Seventh Semester

ELECTRONICS AND COMMUNICATION ENGINEERING

ITY105: Internet and Java Programming

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. _____ server relays outgoing e-mail.

    a) WEB   b) HTTP

    c) SMTP   d) FTP

2. _____ allows thousands of Internet users to participate in real-time text-based chat.

    a) Information Real Chat   b) Information Relay Chat

    c) Internet Relay Chat   d) Internet Real Chat

3. Which of the following is not a pair tag?

    a) <p>   b) <u>

    c) <i>   d) <img>

4. All the collection classes in Java are available in _____ .

    a) Java.util   b) Java.lang

    c) Java.io   d) Java.awt

5. A class can implement _____ interfaces.

    a) Only one   b) One or more

    c) Minimum two   d) Maximum two

6. Among the following keywords, which one if used along with class, will not allow the class to be inherited?

    a) super   b) final

    c) synchronized   d) finally

7. Which of the following will store elements in an unordered way and does not contain duplicate elements?

a) Map   b) List

c) Set   d) ArrayList

8. The default layout manager for applet is_____ .

   a) GridLayout   b) CardLayout

   c) BorderLayout   d) FlowLayout

9. Applet viewer tool is available in _____ folder of JDK.

   a) bin   b) Applet

   c) jdk   d) awt

10. Which listener is associated with MenuItem class?

   a) Action Listener   b) Mouse Listener

   c) Item Listener   d) Event Listener

PART B (10 x 2 = 20 Marks)

11. Illustrate a simple HTML code to demonstrate the use of Heading tag.

12. Distinguish between the three types of style sheets.

13. Justify how "Java is known as platform independent language".

14. Interpret why multiple inheritance is not supported in java and how it is supported indirectly in java.

15. Differentiate between String class and StringBuffer class in java.

16. Outline the purpose of Thread? Where it is used?

17. Develop a Java program to check whether the given string is a palindrome.

18. Differentiate between Array and ArrayList.

19. Develop a simple applet program to set the background color as green?

20. How are Cookies formed?

PART C (5 x 14 = 70 Marks)

21. a)   Create a college web site which consists of the following features using necessary HTML tags.

- Home Page with Logo, College name, Description and Facilities Menu
- UG and PG Courses
- Library Facility
- Hostel Facility
- Clubs Facility
- Contact us page with contact form.

(OR)

b) (i) Interpret the various ways of connection to the internet. (7)

(ii) Explain about the FTP servers and FTP clients in detail. (7)

22. a) (i) Explain the object oriented programming concept in detail with suitable examples. (10)

(ii) Distinguish between method overloading and method overriding. (4)

(OR)

b) (i) Classify the various types of inheritance with suitable examples. (7)

(ii) Develop a java program to perform the following using an integer array : (7)

a) Calculate the average of array elements

b) To find a given element is present or not in an array

23. a) (i) Outline the use of Java Package and explain about user-defined packages with an example program. (7)

(ii) Demonstrate the Exception handling mechanism with an example. (7)

(OR)

b) Develop a java program to perform the following string operations using switch case:

a) To convert a given sentence to upper case.

b) To find the number of vowels and consonants in a given sentence

c) To replace all the occurrence of 'a' to 'b' in a given sentence

d) To find the longest word in a given sentence.

24. a) (i) Illustrate the life cycle of a thread in java. (4)

(ii) Explain inter thread communication in java with an example. (10)

(OR)

b) (i) Identify the use of java I/O package and explain the concept of streams. (6)

(ii) Develop a Java program to perform the following file handling operations. (8)

a) Get the input from user and write into a file name "a.txt" using character stream

b) Copy the contents from the file "a.txt" to another file "b.txt" using byte stream.

25. a) (i) Differentiate between Java application and Java applet. Explain about the life cycle (7) of an Applet.

    (ii)   Discuss in detail about any four listener interfaces with their methods.   (7)

<div align="center">**(OR)**</div>

b)   (i)   Develop a java applet program to perform arithmetic operations -add, subtract,   (7) multiply and divide with suitable AWT controls.

    (ii)   Interpret the need of Border layout, Box layout and Flow layout with suitable   (7) example for each.

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