**MCA DEGREE EXAMINATIONS: APRIL/MAY 2014**

(Regulation 2009)

Third Semester

**MASTER OF COMPUTER APPLICATIONS**

MCA514 : Internet Programming

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

**Answer ALL Questions:-**

**PART A (10 x 2 = 20 Marks)**

1. Name any four types of Internet connections.
2. How does Internet Relay Chat differ from Instant Messaging
3. What is the significance of cookies?
4. What is a security policy?
5. What is the purpose of the finalize() method?
6. How is exception handling implemented in java? Give a suitable example.
7. What are the various controls supported AWT?
8. What is the purpose of garbage collection in java? Explain with a suitable example.
9. What is a collection class? What is their use?
10. List the four step life cycle of a servlet.

**PART B (5 x 16 = 80 Marks)**

11. a) (i) How domains are organized in the present day Internet? (8)
    (ii) How are Filtering Mail, Deleting Spam and Defending Against Viruses done in various email clients? (8)

**(OR)**

    b) (i) Discuss in detail the various forms of chat, messaging and conferencing (8)
    (ii) What are the advantages and disadvantages of Usenet Newsgroup (8)

12. a) (i) How to incorporate audio and video on the web? (8)
    (ii) What are the essential steps followed to make the website effective? (8)

**(OR)**

    b) (i) What are the functionalities involved in transferring files using FTP? (8)
    (ii) How is software downloaded and installed from the Internet (8)

13. a) Explain with suitable example the various control structures available in java.

**(OR)**

    b) (i) What is the significance of a package? Explain with an example the steps involved in creating and using a package in a java program? (8)
    (ii) Explain the interface concept with a suitable real time example. (8)

14. a) (i) Discuss the various layouts supported in AWT with a suitable example. (8)
    (ii) What are the various graphics features available with AWT? (8)

**(OR)**

    b) (i) What are the various ways a thread is created in java? Explain with a suitable example. (8)
    (ii) Explain in detail the various simple type wrapper classes available in java. (8)

15. a) (i) Explain the various features of the character and Byte streams (6)
    (ii) Develop a currency converter application using RMI (10)

**(OR)**

    b) (i) Explain in detail the various IDBC driver types supported by java? (6)
    (ii) Implement a Fahrenheit to Celsius converter using an interactive servlet. (10)

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