BSc IT 2008 : IT

Answer key / correct responses on:

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MUMBAI UNIVERSITY (BSc IT)
IT - 2008

Mar 1 -07 438

Con. 1612-08. ЭІ-Ь025

(3 Hours) [Total Marks : 100

Note: (1) Question No. 1 is compulsory
(2) From Question No. 2 to Question No. 7 attempt *any four* questions.
(3) Make suitable assumptions wherever necessary.
(4) Answer to the same question must be written together.

1. Answer the following:

   a) Explain Frequency Hopping Spread Spectrum (FHSS) and Infrared Technology of WLAN. 5

   b) Compare RMI and CORBA. 5

   c) Explain differentiated services of the IP datagram. 5

   d) Explain Socket class and ServerSocket class and their respective methods. 5

2. a) With the help of a neat diagram describe the RMI Architecture. 8

   b) Write a Client/Server application using DatagramPacket and DatagramSocket, where client sends a number and server returns the square of that number. 7

   c) Write a short note on RARP. 5

3. a) Explain the three way hand shake method for TCP connection establishment? 8

   b) Explain the frameworks of CORBA 7
      • Interface definition language(IDL).
      • Object request Broker(ORB).
      • Internet inter ORB protocol.

   c) Explain the two fields Byte number and Acknowledgement number, the numbering system of the TCP? 5

4. a) Explain Congestion in a network? With the help of diagram describe two factors delay and throughput that measure the performance of a network in a TCP? 8

   b) Explain problem of instability with RIP. State and explain remedies for the same 7

   c) What are the restriction and potential problem with WLAN? 5

5. a) List and explain different types of messages used in BGP? 8

   b) Define Checksum in IP. Explain Checksum calculation at the receiver with the help of diagram. 7

   c) What are the benefits of the WLAN? 5

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6. a) Explain Fragmentation. Why it is required to fragment an IP datagram? Explain   8
    fields related to Fragmentation?

      i)   Identification

      ii)   Flags

      iii)   Fragmentation offset. Explain with example

  b) With the help of diagram. Explain different types of links available in OSPF?   7

  c) Discuss Silly Window Syndrome created by the sender and its solution   5

7. a) Write a program using RMI for addition, subtraction and multiplication of the   8
    given number.

  b) Explain header description, total length, protocol and Time to Live fields of the   7
    IP datagram format?

  c) How the output Module in ARP updates the cache table?   5