29816/

University of Sargodha

BS 4ᵗʰ Term Examination 2023

Subject: Information Technology   **Paper: Computer Networks (CMPC-208)**

Time Allowed: 02:30 hours   Maximum Marks: 40
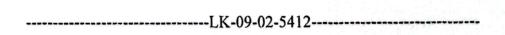
Note: Objective part is compulsory. Attempt any three questions from subjective part.

Objective Part   (Compulsory)

Q.1. Write short answers of the following in 2-3 lines each on your answer sheet.   (2*8)

    i.   How we can eliminate broadcast domain?
    ii.   What is peer to peer model in Networks? Give any example.
    iii.   How URL can be translated into IP Addresses?
    iv.   What is difference between Router and Access Point?
    v.   What is PPP?
    vi.   What do you know about authentication protocols of Data link layer?
    vii.   Which protocol use echo packet to check connectivity?
    viii.   How web.whatsapp.com request is entertained by the DNS server?

Subjective Part   (3*8)

Q.2. What do mean by Flat Network and why we prefer tierArchitecture? Why we recommend this in the network?

Q.3. a) Write down the different attributes of the internet layer?
    b) Difference between IPV4 and IPV6, explain ipv4 header.

Q.4. You have given 172.254.32.1/16 IP address and your boss assigned you to make 50 networks blocks with this IP. Write down the new subnet mask and Ip blocks and tell how many useable addresses we get after subnetting?

Q.5. What is routing and write down the detailed analysis on different kind of routing protocols?

Q.6. Describe detail analysis on TCP/IP protocols suite?

--------------------------------------LK-09-02-5412--------------------------------