Instructions to the candidates:

1) Figures to the right indicate full marks.
2) Draw neat diagrams wherever necessary.
3) Assume suitable data, if necessary.

Q1) a) Explain FTP in detail. [7]
   b) What is Qos. Explain Qos parameters. [8]
   c) What is significance of priority & flow label fields in Ipv6. [5]

OR

Q2) a) Explain functionality of DHCP server, proxy server, file server, Web server. [8]
   b) Draw & explain three way handshake process of TCP. [4]
   c) Describe in short the importance & working of following commands:[8]
      i) Ping
      ii) Netstat
      iii) Traceroute
      iv) IP config

Q3) a) Explain WAP protocol stack. [8]
   b) Write short note on. [8]
      i) Wireless LAN
      ii) WML script

OR

P.T.O.
Q4) a) Explain all versions of 802.11 standard & compare. [8]
   b) Explain WLAN architecture. [8]

Q5) a) Draw & explain VOIP network architecture. [8]
   b) Explain VANET architecture? What are the challenges in Vehicular Network. [8]

   OR

Q6) a) What is DTN? Explain different layers of DTN. [8]
   b) Explain advantages & disadvantages of VOIP over traditional telephone network. [8]

Q7) a) Explain ATM architecture. [8]
   b) Write short note on: (any 2). [10]
      i) Components of optical network
      ii) GMPLS
      iii) SDN

   OR

Q8) a) What is virtualization? Explain its type. [8]
   b) Explain SONET frame structure. [6]
   c) What are different client layers of optical fiber. [4]