

8/6/2022

1sthalf-11-SG 84-(C)

B.E KIRK VII (REV)  
Communication Networks

Con.3852-11

( REVISED COURSE )

RK-3345

(3 Hours)

[ Total Marks : 100

- N.B. :** (1) Question No. 1 is **compulsory**.  
 (2) Attempt any **four** questions out of remaining **six** questions.  
 (3) **Illustrate** answers with sketches wherever **required**.  
 (4) **Figures** to the **right** indicate **full marks**.

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|----|--|----|
| 1. | (a) Explain LAN Topologies with neat diagram.  | 20 |
|    | (b) Write a note on flow control in data link layer.   |    |
|    | (c) Explain congestion control in Datagram Subnet.   |    |
|    | (d) Explain TCP/IP utilities.  |    |
| 2. | (a) Explain various transmission media in detail.  | 10 |
|    | (b) What is role of Modem ? Explain XDSL in detail.  | 10 |
| 3. | (a) Explain SONET/SDH in detail.   | 10 |
|    | (b) Explain stop and wait ARQ, Go-back-N ARQ, Selective repeat ARQ.  | 10 |
| 4. | (a) What is HDLC Protocol ? What are three frame types supported by HDLC ? Describe each in detail.  | 10 |
|    | (b) Explain static and dynamic routing algorithms.   | 10 |
| 5. | (a) With the help of neat diagram explain packet switching and virtual circuit packet switching and also explain their advantages and disadvantages. | 10 |
|    | (b) Explain in detail Repeater, Hub, Bridges, Routers, Gateway, Switches.  | 10 |
| 6. | (a) Write a note on IEEE 802.3 Standard in detail.   | 10 |
|    | (b) Explain Berkeley Application Programming Interface in detail.  | 10 |
| 7. | (a) Explain Terminal Network (TELNET) and File Transfer Protocol (FTP).  | 10 |
|    | (b) Draw the layered OSI network architecture. Explain the function of each layer in detail.   | 10 |
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