Code No: **RT41042**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, March - 2021 COMPUTER NETWORKS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 70 Ouestion paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B **** PART–A(22 Marks) Write about connection-oriented service-reliable communication. 1. a) [4] Discuss various carriers used in ATM networks. [4] b) How to establish flow control using sequence numbers. [4] c) Write short notes on routing for mobile hosts. d) [4] What are the services provided by transport layer? [3] e) Explain dynamic and static web documents with suitable example. f) [3] PART-B(3x16 = 48 Marks)Explain various network categories based on size of network and physical 2. a) structures. [8] List out and explain milestones in establishment of internet. [8] 3. a) In detail explain how frequency division multiplexing combines analog signals. [8] Explain how narrow band ISDN replace the analog telephone system with a b) digital one. Explain its expansion to broadband ISDN. [8] 4. a) Where do we use wireless LAN? Draw the architecture and explain its frame format. [8] What is the window size of sender and receiver sides in selective repeat protocol? Explain with timing diagram. [8] Explain congestion control in virtual circuit sub nets and datagram subnets. 5. a) [8] With an example explain 5 different phases of Link State Routing Algorithm. [8] Write about connectionless unreliable transport protocol and its services. [8] 6. a) Discuss the following with respect to Transmission Control Protocol b) TCP connection management modeling i. ii. TCP transmission policy iii. TCP segment header. [8] 7. a) Write about internet radio and voice over IP services in multimedia. [8] b) With neat sketch explain the architecture, services and message format of Electronic Mail. [8]