Imp Ques (Unit II):

* diff b/w link state, dist vec
* struc of router
* diff b/w broadcast, multicast.
* diff b/w connᶜ & connᶜless services.
* diff b/w virtual & datagram
* Hierarchial routing
* diff ways to implement breakcast routing.

} with example networks to explain each alg.

Unit - 3

* various approaches to control congestion
* diff b/w leaky bucket & token bucket.
* diff b/w integrated & differentiated services.
* Expedited v/s assured forwarding with diagrams + advantages
* RED (random early detce)
* Hop by hop Back pressure v/s explicit congs notification
* Internetworking. Ad, disad. Role of tunneling in internetworking.
* Traffic Throttling diff ways.
* Techniques to achieve good QoS.
* load shedding, jitter control.

Unit - II

* IPv4 header with diag
* BGP.
* ICMP, message types of ICMP.
* RTP and RTCP protocols. RTP header diag.
* Tunneling in internetworking
* exterior gateway protocol.

Unit - V

* list timers used by TCP, advantages.
* HTTP methods & usage in real time apps. discuss the method in detail
* TCP ⇒ conn estab, connᶜ release, header segment.
* relationship b/w network, transport, appⁿ layers.

* State diag for a simple conn' management scheme.
* electronic mail service + diag + protocols used.
* given TCP header → Identify: ① source port no.
② app being used.
③ sequence no.
④ Ack no.
(for any example given in ques)

Unit - I

* TCP / IP suit
* CSMA/CA / CD.
* PPP protocol
* diff types of addresses + diags.
* framing with diagrams.
* data link control funcs
* HDLC framing + structures, piggybacking.
* Stop & wait protocol.
* Transmission modes with example.