P4-Exam.-March-10-2-277

## Sub · Computer Network

D+ 07-06-81

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Con. 3471-10.

## (REVISED COURSE)

AN-4225

(3 Hours)

[Total Marks: 100

N.B.:(1) Question	No. 1 is	compulsory
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- (2) Attempt any four out of remaining six questions.
- (3) Figures to the right indicate marks.
- (a) What is the difference between protocol and service interface? Explain your 10 answer in terms of the OSI 7 layer model.
  - (b) Describe any five functions of data link layer with suitable examples.
- 2. (a) Explain one-bit sliding window protocol in detail.
- (b) Explain ALOHA and Slotted ALOHA in detail.
- 3. (a) Explain Dijkstra's Algorithm as shortest path routing with example.
  - (b) Explain the working of Leaky Bucket Algorithm. Why Leaky Bucket Algorithm 10 is used in Computer Network.
- 4. (a) Draw and explain the structure of P Frame Header.
  - (b) Explain classful Addressing in PD4.
- 5. (a) What is count to infinity problem in distance vector routing?
  - (b) Explain Three way Handshake Technique in TCP.
- (a) Explain working of Yollowing Network components and state in which layer 10 they work. Reseaters, Hubs, Bridgers, Routers, Switches, Gateways.
  - (b) Differentiate between virtual circuit and datagram subnets.
- 7. Write short notes on (any four) :-
  - (a) AdHoc Networking
  - (b) Comparison of 802.3 and 802.11
  - (c) SONET
  - (d) Differentiate Data Link Layer and Transport Layer
  - (e) Quality of Service (QOS) of Internetworking.