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Roll No. :

333635(33)

B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(IT Branch)

ADVANCED COMPUTER NETWORKS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Part (a) of each question is compulsory. Attempt
any two parts from (b), (c), (d).*

Unit-I

1. (a) Define the message and packet switching. 2
- (b) Write the characteristics of sessions. 7

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- (c) Explain circuit switching and store and forward switching. 7
- (d) Explain the MAC sub layer. 7

Unit-II

- 2. (a) Write the types of delays in packet transmission. 2
- (b) Explain Queuing Model of Little's theorem. 7
- (c) Explain Burke's theorem with diagram. 7
- (d) Explain Jackson's theorem with diagram. 7

Unit-III

- 3. (a) Write the type of slotted multi-access model implementations. 2
- (b) Explain FCFS splitting Algorithm. 7
- (c) Explain Pseudo-Bayesian stabilization for CSMA Aloha. 7
- (d) Explain the Satellite Reservation Systems with diagram. 7

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Unit-IV

- 4. (a) Write the main issue of routing algorithm. 2
- (b) Explain the shortest path routing. 7
- (c) Explain the Bellman-Ford algorithm. 7
- (d) Explain the Floyd-Warshall algorithm. 7

Unit-V

- 5. (a) Write the types of flow control approach. 2
- (b) Explain end to end window flow control with diagram. 7
- (c) Explain Queuing analysis of the leaky bucket scheme. 7
- (d) Explain Max-Min Flow control. 7