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IV Semester B.C.A. 4 Degree Examination, May - 2019  
ADVANCED COMPUTER NETWORK & SECURITY

Paper Theory  
RCU Fresh 2018-19

Time : 3 Hours

Max. Marks : 80

- Instructions :**
- (1) All questions are compulsory.
  - (2) Draw neat diagrams wherever necessary.

SECTION - A

Answer all questions.

2x10=20

1. (a) What are three criteria necessary for an effective and efficient network ?
- (b) List different topology in network.
- (c) How can routing be classified ?
- (d) Define TCP.
- (e) Define flow control.
- (f) Write the functions of SMTP.
- (g) Define www.
- (h) What are the basic functions of email ?
- (i) What do you mean by switched virtual circuit ?
- (j) Write the keys for understanding distance vector routing.



P.T.O.

## SECTION - B

Answer any four questions.

4x5=20

2. Explain SONET in detail.
3. Compare Virtual Circuit and Datagram.
4. Explain transport service primitives.
5. Explain UDP in detail.
6. Write a note on DNS.

## SECTION - C

Answer any four complete question.

4x10=40

7. (a) Explain shortest path routing with neat diagram. 7+3=10  
(b) Explain IP Address.
8. (a) Explain Internet Protocol Version 6. 7+3=10  
(b) What do you mean by Virtual circuit ?
9. Explain TCP connection establish and connection release in detail. 10
10. (a) Explain email architecture and services. 5+5=10  
(b) Explain MIME
11. Write a note on : 5+5=10  
(a) VPN  
(b) ARP

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