## Total No. of Questions: 11 Total No. of Printed Pages: 4

### OR

Explain functions of each layer of OSI reference model in detail.

What is the need of classes in IP addressing? What are the deficiencies of IPv4.

#### OR

Explain any two:-

- (i) SMTP.
- (ii) FTP.
- (iii) TFTP.
- 10. What is the role of AAL and ATM layer?

#### OR

What is RSVP. How this protocol used for making the reservation.

11. What is cryptography? What are symmetic key algorithms?

### OR

How data can be secured over networks? What are security protocols?

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# **ML-143**

# B.C.A. Vth Semester Examination, 2014-15

# **Data Communication & Networking**

## Paper - I

Time: 3 Hours] [Maximum Marks: 85

Note: All questions are compulsory.

SECTION - 'A'

Objective Type Questions 2×5=10

1. Choose the correct answer:

- (i) This layer establishes, maintains and synchronizes the interaction between communicating systems:
  - (a) Transport Layer (b) Presentation Layer
  - e) Session Layer (d) Data Link Layer
- (ii) \_\_\_\_ is the set of techniques that allows the simultaneous transmission of multiple signals across a single data link:

P.T.O.

- Multiplexing (a)
- (b) Demultiplexing
- Both a & b (c)
- (d) None
- Which one of the following is class C address: (iii)
  - 191.255.68.232 (a)
- (b) 192.255.68.232
- 255.255.255.255 (d) 239,1.32.68 (c)
- Full from of MPL is \_\_\_\_\_. (iv)
- Which processes does TCP but not UDP use? (v)
  - Windowing (a)
- Acknowledgements
- Source Port (c)
- Destination port

### SECTION - 'B'

## **Short Answer Type Questions**

5×5=25

- Give the difference between: (any one)
  - MAN and WAN.
  - (ii) Modulation and Demodulation.
- 3. Define any two:
  - Hub
  - (ii) Repeaters
  - (iii) Routers
- 4. Explain in brief (any two) :-
  - IP addressing classes.

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- (ii) Network layer (TCP/IP).
- (iii) Mobile IP.
- What are the application of ATM network?

### OR

Define PNNI Routing?

Define Worms? Give example of worms related threats?

#### OR

In which devices wirfi and Bluetooth technologies are used?

### SECTION - 'C'

Long Answer Type Questions  $10 \times 5 = 50$ 

What is modem? Explain its role in conversion of Analog to Digital signals.

### OR

Explain different types of transmission media and their merits and demerits over another media.

8. Explain CSMA with collision detection. Also explain the access method through token ring.

P.T.O.