

Total No. of printed pages = 2

Co-504/CC&N/5th Sem/2016/N

## COMPUTER COMMUNICATION AND NETWORKING

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer question No.1 and any *four* from the rest.

1. (a) Differentiate between connection oriented and connectionless services. 4
- (b) What is slotted ALOHA ? 3
- (c) List some application layer protocol. 3
2. (a) What is switching ? Explain Circuit switching and Packet switching. 2+4=6
- (b) Explain CSMA/CD protocol. 9
3. (a) List the functions of data link layer. 6
- (b) What is sliding window protocol ? Explain any one sliding window protocol. 2+5=7
- (c) State the application of hamming code. 2

[Turn over

4. What is IPV4 address ? Explain different classes of IP4 IP address. What is the merit of IPV6 address ?  $3+10+2=15$
5. (a) List the functions of transport layer. 4  
(b) Differentiate between TCP and UDP. 6  
(c) What is RPC ? Explain in brief. 5
6. (a) What is cryptography ? Explain its importance in data communication.  $1+5=6$   
(b) What are the functions of application layer ? 5  
(c) What is WWW ? Why it is important ?  $2+2=4$
7. Write short notes on any two :  $7\frac{1}{2}\times 2=15$   
(a) TCP / IP  
(b) ISDN  
(c) Congestion control algorithm.