

Total No. of Questions : 8]

P133

SEAT No. :

[Total No. of Pages : 2

[5871]-641

**B.E. (Electronics Engineering)**  
**COMPUTER NETWORKS & SECURITY**  
**(2015 Pattern) (Semester - II)**

Time : 2½ Hours]

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Use of calculator is allowed.
- 5) Assume suitable data, if necessary.

[Max. Marks : 70

- Q1)** a) Draw & explain ISO - OSI model in detail. [8]  
b) Explain LEO/MEO/GEO in detail with applications. [6]  
c) Explain sliding window protocol in detail. [6]

OR

- Q2)** a) Explain TCP/IP reference model in detail. [8]  
b) Explain guided media in brief with suitable applications. [6]  
c) Explain CSMA/CD protocol. [6]

- Q3)** a) Describe various classes in IP addressing and give applications of each. [6]  
b) Explain shortest path Algorithm. [6]  
c) Explain ARP & RARP protocol in detail. [4]

OR

- Q4)** a) Explain in detail ICMP & IGMP protocol. [6]  
b) Explain lasheet is mean by congestion & quality of service in computer network. [6]  
c) Compare UDP & TCP. [4]

P.T.O.

- Q5)** a) What is FTP? Describe in brief. [8]

- b) Write short note on DNS. [6]

- c) How do PING & TRACE ROUTE works. [4]

OR

- Q6)** a) Write a short note on WWW & Internet. [8]

- b) Explain Telnet with example. [6]

- c) What is HTML? Explain it with any application. [4]

- Q7)** a) What is cryptography? Explain data encryption std in detail. [8]

- b) Explain cable tester. [4]

- c) What is use of protocol Analyzer. [4]

OR

- Q8)** a) Explain in detail RSA Algorithm with example. [8]

- b) How does Hash function works. [4]

- c) Write a short note on network simulation. [4]

○○○○○

[5871]-641

2