

Total No. of Questions : 10]

SEAT No. :

**P3330**

[Total No. of Pages : 2

[5670] 599

**B.E. (E & TC)**

**COMPUTER NETWORKS & SECURITY**

**(2015 Pattern) (Semester - I) (404182) (End Sem.)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*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, Q.9 or Q.10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

- Q1)** a) Explain basic service set and Extended service set in WLAN? [6]  
b) Write short note on Gigabit Ethernet? [4]

OR

- Q2)** a) Draw Bluetooth architecture explain function of different layer in Bluetooth? [6]  
b) Write short note on congestion control? [4]

- Q3)** a) Give general format of ICMP and explain different types of error reporting messages used in ICMP? [6]  
b) Compare IPV4 and IPV6? [4]

OR

- Q4)** a) Draw and explain IPV6 format? [6]  
b) What is IGMP? How does it used? [4]

- Q5)** a) Explain various Transport Layer protocols. [7]  
b) Write short note on IP address and Port number? [6]  
c) Explain Process to Process delivery? [4]

OR

**P.T.O.**

- Q6)** a) Enlist and explain SCTP services? [7]  
b) Draw TCP header and explain function of each field? [6]  
c) Draw and explain UDP header in details? [4]

- Q7)** a) What are various components of DNS, explain in brief? [5]  
b) Explain URL and operating principal of COOKIES? [6]  
c) Explain types of Web Documents in detail. [6]

OR

- Q8)** a) Explain basic functions of Electronic mail. [5]  
b) Write short note on : [6]  
i) FTP,  
ii) SNMP.  
c) Enlist and explain functions of Network Management System? [6]

- Q9)** a) Define cryptography and explain all types of Ciphers? [8]  
b) Generate the Public Key and Secret Key for following prime number using RSA algorithm?  $P = 3$ ,  $Q = 11$ , take  $E = 5$ . [8]

OR

- Q10)** a) What is SSL? How does it provide security at Transport Layer? [8]  
b) Write short note on : [8]  
i) PGP.  
ii) Firewalls.

