

Total No. of Questions : 4]

SEAT No. :

PA-10061

[Total No. of Pages : 1

[6009]-352

**T.E. (Information Technology) (Insem)**  
**COMPUTER NETWORK & SECURITY**  
**(2019 Pattern) (Semester - II) (314451)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

**Q1)** a) Explain stepwise the procedure carried out by DHCP client and DHCP server. [7]

✓ b) Define DNS. Explain how name resolution happens in DNS. Enlist all the resource records and its functions. [8]

OR

**Q2)** a) What is MIME? Discuss its role in SMTP. [5]

b) Why FTP requires two TCP ports? Explain four commands of FTP. [5]

c) Differentiate between POP3 and IMAP. [5]

**Q3)** a) Explain the basic architecture of WLAN and discuss various components in it. [7]

✓ b) Compare 802.11 & 802.15. What are the limitations of Bluetooth? [8]

OR

**Q4)** a) Explain DCF & PCF in 802.11. [5]

✓ b) Explain Bluetooth architecture with diagram. [5]

c) What is WiMax? List the advantages of WiMax? [5]

