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SEAT No. :

P122

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**Oct./BE/Insem.-46**  
**B.E. (E & TC)**  
**COMPUTER NETWORKS**  
**(2012 Pattern) (Semester - I)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4 Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume Suitable data if necessary.*

**Q1)** a) State four levels of addressing used in TCP/IP & explain physical address in brief. [5]

b) State functions of network layer & explain any one in brief. [5]

OR

**Q2)** a) Write short note on fiber optic cable as a transmission media. Also state their merits and demerits. [6]

b) Compare between circuit switching and packet switching. [4]

**Q3)** a) State various channelizing protocols & explain any one protocol in brief.[6]

b) What are the common standard Ethernet implementations? Explain. [4]

OR

**Q4)** a) With the neat diagram, explain Selective Repeat sliding window Protocol. [6]

b) Compare & contrast between random access protocols with controlled access protocols. [4]

**Q5)** a) With the neat diagrams explain Basic Service set & Extended Service set in wireless networks. [6]

b) What is piconet? Explain in brief. [4]

OR

**Q6)** a) What is the significance of connecting devices in computer networks? Explain any device in brief. [5]

b) Explain Zigbee protocol with it's applications. [5]

