B.E. Sixth Semester (Information Technology) (C.B.S.)

Computer Network

P. Pages : 2 **NKT/KS/17/7411**

Time : Three Hours * 0 3 3 5 * Max. Marks : 80

Notes : 1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain about Infrared Transmission. **5**

b) Explain the following with example. **8**
i) Reliability.
ii) Packet loss rate.
iii) Jitter.
iv) Through Put.

OR

2. a) Write a short note on Wireless transmission. **6**

b) Discuss about IEEE 802.11 and its architecture. **7**

3. a) Explain about selective repeat ARQ. With its working. **7**

b) Write a short note on 1-bit sliding window protocol. **6**

OR

4. a) Write a short note on CSMA/CA with an example. **7**

b) Explain about static and Dynamic channel allocation. **6**

5. a) Explain about distance vector routing with its working. **8**

b) Write a short note on BGF. **6**

OR

6. a) Explain the difference between Default mask and subnet mask. **3**

b) Explain the difference between Subnet mask and supernet mask with example. **3**

c) Explain about transition from IPV_4, to IPV_6. **8**

7.	a)	Explain the concept of flow control and buffering.	**6**
	b)	Define socket, explain it with socket system calls.	**7**

OR

8.	a)	Explain the concept of multiplexing with example.	**7**
	b)	Explain about quality of service under transport layer.	**6**
9.	a)	What is DNS? Explain with its resolutions.	**6**
	b)	Explain the packet format of DHCP.	**4**
	c)	Discuss about FTP.	**3**

OR

10.	a)	Explain about DNS in the internet.	**5**
	b)	Explain about file transfer in TFTP.	**8**
11.	a)	Write a short note on mobile IP.	**8**
	b)	Explain about Ipsec.	**3**
	c)	Write a short note on Internet security.	**3**

OR

12.	a)	Briefly describe about transport layer security.	**9**
	b)	Explain about Real Time traffic over the internet.	**5**

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