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UG/3rd Sem/CMS/(H)/T/19

2019

B.Sc.

3rd Semester Examination COMPUTER SCIENCE (HONOURS)

Paper - C 7-T

Computer Network

Full Marks: 40

Time: 2 Hours

The question are of equal value for any group/half. The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as parctiable. Illustrate the answers wherever necessary.

Group - A

1. Answer any five questions:

5×2=10

- a) What do you mean by transmission impairments?
- b) Define 'burst error' with an example.
- c) Why gateways are used in a network?
- d) What do you mean by piggybacking?
- e) What is the use of TELNET service?

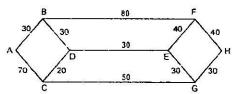
(2)		
t)	Find the network address of the node address: 198.19.2.5	with IP 2
g)	Distinguish between serial and parallel transmission.2	
h)	h) If 17 devices are arranged in a mesh topology then how many cables are needed? How many ports are needed for each device?	
Group - B		
2. Answer any four questions:		4×5=20
1)	Distinguish between byte stuffing and bit	stuffing.

- what is advantage of character stuffing? 3+2
- ii) With a suitable example, explain the concept of amplitude shift keying (ASK) technifque. 5
- iii) Differentiate between connection oriented and connection less services.
- iv) Explain leaky bucket algorithm for congestion control

5.

v) Describe any one random access protocol to share a common link 5

vi) Consider the following subnet:



Using shortest path routing algorithm find the minimum cost path from A to H. 5

Group - C

3. Answer any one questions:

1×10=10

- (i) Write an overview of WWW and http protocol. What does 10Base-T mean? What is a private IP address?
- ii) Write short notes (any four)

4×2½=10

- a) DNS
- b) Ethernet
- c) CRC
- d) www
- e) Co-axial cable
- f) FDM