R17

Code No: 843AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, December - 2019
COMPUTER NETWORKS

Time: 3hrs   Max.Marks:75

Note: This question contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 ×5 Marks = 25

1.a)	Explain briefly about design issues for layers in computer network.	[5]
b)	What is bridge? What are the uses of bridges in computer network?	[5]
c)	What is flooding? Explain it briefly.	[5]
d)	Write the services of transport layer.	[5]
e)	What is HTTP protocol? Describe its feature and header.	[5]

PART - B

5 × 10 Marks = 50

2. Explain TCP-IP reference model for computer network and compare it with OSI reference model. [10]

OR

3.a) Compare PAN, LAN and WAN.
  b) What are fiber optics media? Explain its advantages and compare with other guided media. [5+5]

4.a) Explain about Hamming code with an example.
  b) Give a note on wireless LANs. [5+5]

OR

5. What is simplex stop and wait protocol? Explain it for error free and noisy channel.[10]

6.a) Explain design issues of network layer.
  b) Write about packet fragmentation. [5+5]

OR

7. Elaborate congestion avoiding techniques in network layer. [10]

8.a) Write the feature TCP protocol.
  b) Explain Connection establishment technique in TCP. [5+5]

OR

9.a) Explain Performance issues of TCP.
  b) Describe Real Time Transport protocol. [5+5]

10.a) Describe Session Initiation protocol.
   b) Explain the features of JPEG video compression format. [5+5]

OR

11. Write notes on
    a) Cookies   b) Role of DNS in computer network. [5+5]

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