

23/5/13



322635 (22)

BE (6th Semester)

Examination, April-May, 2013

Branch : CSE

INTER NETWORKING WITH TCP/IP

Time Allowed : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 28

- Note :
- (i) Attempt all questions.
 - (ii) In all question Part (a) is compulsory.
 - (iii) In remaining Part (b), (c) and (d), attempt any two.

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- Q. 1.
- (a) What do you understand by inter-network? 2
 - (b) Explain the function of first four layers of ISO-OSI reference model. 7
 - (c) Explain TCP/IP protocol suite. 7
 - (d) Explain various switching technology. 7
- Q. 2.
- (a) Define the term protocols as it relates to data communication. 2
 - (b) Explain working of IGMP. 7
 - (c) Discuss the various classes of IP address along with the ranges. 7
 - (d) Explain IPv4 packet format. 7
- Q. 3.
- (a) What do you understand by routing ? 2
 - (b) Explain various types of OSPF message format used in OSPF protocol. 7

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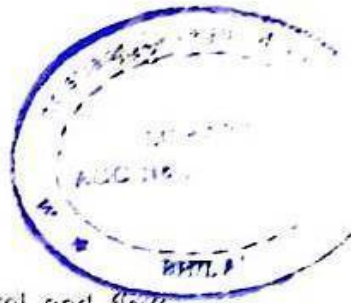
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(c) Explain RIP protocol and also write the problem of RIP. 7

(d) Write short notes on following:

(i) CBT

(ii) M-BONE



14. (a) Differentiate congestion control and flow control. 2

(b) Explain Leaky Bucket and Token Bucket algorithm. 7

(c) What is the use of sliding window? Explain the principle of sliding window protocol. 7

(d) Initially the bucket is full of token when 1 Mb burst arrive at the rate 25 Mb/sec, the token bucket capacity is 500kb, token arrives at the

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rate 2 Mb/sec and maximum output rate is 25 Mb/sec. Calculate burst length and total time to drain 1 Mb data with no data lost. 7

Q. 5. (a) Define virtual circuit identifier. 2

(b) Explain types of ISDN equipment and how the equipment is interconnected to create ISDN networks. 7

(c) Explain ATM reference model. 7

(d) Explain logical subnet concept and connection management. 7

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