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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **CO301U - Computer Networks**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

- 1) Solve all
 - a) Define the type of the following destination addresses: [6]
 - a. 4A:30:10:21:10:1A.
 - b. 47:20:1B:2E:08:EE.
 - c. FF:FF:FF:FF:FF:FF.
 - b) Explain IEEE 802.11 addressing mechanism. [6]
- 2) Solve all
 - a) List the Addresses in TCP/IP. Explain physical address with example. [6]
 - b) Explain four way handshaking methods to terminate a connection in TCP [6]
- 3) Solve any two
 - a) Find the error, if any, in the following IPv4 addresses. [6]
 - a. 111.56.045.78
 - b. 221.34.7.8.20
 - c. 75.45.301.14
 - d. 11100010.23.14.67
 - e. 22.34.7.8.6.
 - f. 152.32.201.11110000
 - b) Explain IPv4 datagram. [6]
 - c) Explain Transition from ipv4 to ipv6. Explain any two transition strategies in detail [6]
- 4) Solve any two
 - a) Draw and explain user datagram protocol format in detail and list the uses of the UDP protocol. [6]
 - b) The following is a dump of a TCP header in hexadecimal format. [6]


```
05320017 00000001 00000000 500207FF 00000000
```

 - a. What is the source port number?
 - b. What is the destination port number?
 - c. What the sequence number?
 - d. What is the acknowledgment number?
 - e. What is the length of the header?
 - f. What is the type of the segment?
 - c) Explain TCP services [6]
- 5) Solve any two
 - a) Explain following field of DNS. [6]
 - a) Hierarchy of Name Servers
 - b) Zone
 - c) Primary and Secondary Servers.
 - b) Explain steps of RSA algorithm with example. [6]
 - c) Write short note on
 - i). File transfer protocol [3]
 - ii). SMTP [3]

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