Reg. No. : ....

Name : ....

V Semester B.C.A. Degree (CBCSS-Reg./Sup./Imp.)
Examination, November- 2019
(2014 Admn. Onwards)

CORE COURSE

5B14 BCA - DATA COMMUNICATION AND NETWORKS

Time : 3 Hours   Max. Marks : 40

SECTION - A

1. One Word Answer   (8×0.5=4)

    a) Communication between a computer and a keyboard involves_____transmission.

    b) _____data are continuous and take continuous values.

    c) The _____layer adds a header to the packet coming from the upper layer that includes the logical address of the sender and receiver.

    d) The_____address uniquely defines a host on the internet.

    e) Routing between autonomous systems is referred to as_____routing

    f) _____protocol has flow control, but no error control.

    g) UDP is an acronym for_____

    h) _____cipher can be categorized as monoalphabetic and polyalphabetic.

P.T.O.

SECTION - B

Write short note on any **Seven** of the following questions.   (7×2=14)

2. Differentiate analog and digital data.

3. Explain asynchronous data transmission.

4. Explain simplex stop and wait protocol.

5. Explain token bucket algorithm.

6. What is meant by character stuffing?

7. Define non adaptive algorithms.

8. Define DNS.

9. Explain the design issues of DLL.

10. Explain DES chaining.

11. Define transposition cipher.

SECTION - C

Write short notes on any **Four** of the following questions   (4×3=12)

12. Explain congestion control algorithm.

13. Explain how connections are established in transport layer.

14. Explain UDP header with diagram.

15. Explain TCP sliding Window.

16. Give a brief note on shortest path algorithm.

17. Explain fundamental principles of cryptography.

SECTION - D

Write short notes on any **Two** of the following questions   (2×5=10)

18. Explain the ISO-OSI reference model.

19. Explain different routing algorithms.

20. Briefly discuss about various design issues in transport layer.

21. Explain public key algorithms.

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