18U633 (Pages: 2) Name: ……..…….

Reg. No……..……

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

(Regular/Supplementary/Improvement)

CC17U BCS6 B13 - COMPUTER NETWORKS

(Computer Science - Core Course)

(2017 Admissions onwards)

Time: Three Hours Maximum: 80 Marks

PART A

Answer ***all*** questions. Each question carries 1 mark.

1. Define Computer Networks.
2. List the different types of errors.
3. What is polling?
4. What is a switch?
5. Which protocol is used for email application?
6. Define Message digest.
7. Expand DTE.
8. What do you mean by network security?
9. What is SNMP?
10. What is the address space of IPV4?

(10 × 1 = 10 Marks)

PART B

Answer ***all*** questions. Each question carries 3 marks.

11. What is flow control?
12. What is the purpose of Network layer in OSI model?
13. What is a digital signature?
14. What do you mean by quality of service in computer networks?
15. Write a note on routers.

(5 × 3 = 15 Marks)

PART C

Answer any ***five*** questions. Each question carries 5 marks.

16. Differentiate TCP and UDP.
17. What are the Different categories of networks?
18. Compare circuit switching and packet switching.

19. Write a brief note on RSA algorithm.

20. Briefly explain CRC with an example.

21. Explain Go Back-N-ARQ protocol with suitable diagram.

22. Explain DNS.

23. What do you by congestion control?

(5 × 5 = 25 Marks)

PART D

Answer any ***three*** questions. Each question carries 10 marks.

24. Explain Digital Signature.

25. Explain different layers in TCP/IP model.

26. Write a note on various error detection methods.

27. Explain Distance vector routing and Link state routing protocol with suitable examples.

28. Write a note on the working of Email application.

(3 × 10 = 30 Marks)

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