QP CODE: 21100669

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Reg No : .....

Name : .....

B.Sc DEGREE (CBCS)EXAMINATION, MARCH 2021

Third Semester

B.Sc Computer Science Model III

COMPLEMENTARY COURSE - EL3CMT08 - ELECTRONICS - NETWORKING FUNDAMENTALS

2017 Admission Onwards

F3ABC7F9

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What are the advantages of bus topology?
2. Define protocol.
3. What do you mean by a connection less protocol?
4. What is flow control?
5. What arithmetic is used to add items in checksum calculation?
6. Explain the term Sliding Window.
7. List the advantages of BOOTP over RARP.
8. Define unicast routing.
9. What do you mean by user datagrams?
10. What is jitter?
11. What kinds of file types can Ftp transfer?
12. Explain the need of URL.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Give an account of various criteria that a network should meet. How can they be measured?

14. Differentiate switch and hub.

15. Why standardisation of network architecture is important?

16. Describe the role of minimum hamming distance in error detection.

17. What is Framing.Explain the Fixed Size Framing?

18. List the advantages of Ipv6.

19. What do you mean by RIP?

20. What are format of a segment in TCP?

21. Write short note on hierarchy of Name servers.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. (a) Explain the function of different types of bridges. (b) Write a note on gateways.

23. Explain the error detection principle used in CRC.Explain polynomial representation also.

24. Explain the structure and notation of IPv4 address.

25. Describe various forwarding techniques.

(2×15=30)