22100729

**QP CODE: 22100729**

**Reg No : .....**

**Name : .....**

# B.Sc DEGREE ( CBCS ) REGULAR / REAPPEARANCE EXAMINATIONS, APRIL 2022

## Third Semester

B.Sc Computer Science Model III

## COMPLEMENTARY COURSE - EL3CMT08 - ELECTRONICS - NETWORKING FUNDAMENTALS

2017 Admission Onwards

077186E7

Time: 3 Hours Max. Marks : 80

### Part A

*Answer any **ten** questions.*

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

1. What is WAN?
2. How do a router route packets on the network?
3. What is the advantage of a layered network architecture?
4. What is a cyclic code?
5. Explain the concept of check sum.
6. Define pipelining and where it is used.
7. Cite the Difference between Supernetting and subnetting.
8. Explain distance vector routing.
9. Explain the numbering system in TCP.
10. What is backpressure?
11. What is token bucket?
12. Explain about Http request message format.

(10×2=20)

## Part B

*Answer any **six** questions.*

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

13. Which are the two possible types of connections in computer networks?
14. Writ notes on the internetworking devices.
15. What do you understand by Connection oriented and connecton less protocols?
16. What is hamming code?How can errors be corrected using it?
17. Explain the address space of IPv6.
18. Define address mapping .Explain in detail about different types of mapping.
19. Explain network-Specific method Versus Host-Specific method.
20. Discuss on muticast link state routing.
21. Explain SMTP in detail.

(6×5=30)

## Part C

*Answer any **two** questions.*

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

22. (a) Give a brief description on history of internet.
    (b) Write short notes o various standard organisations?
23. Illustrate the principle of error detection and correction.Explain any two error detection technique with suitable example.
24. Define Framing. Explain Fixed-Size Framing and Variable-Size Framing in detail.
25. Write a short note on (a) UDP (b) checksum (c) UDP operation

(2×15=30)