Reg. No ..... Name **24U351**

B.C.A DEGREE END SEMESTER EXAMINATION - OCTOBER 2024

SEMESTER 3 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY

COURSE : **19U3CRBCA10 : COMPUTER NETWORKS**

(For Regular 2023 Admission and Improvement/Supplementary 2022/2021/2020/2019 Admissions)

Time : Three Hours Max. Marks: 75

PART A

Answer All (1 mark each)

1. What is CIA triad in computer security?
2. What is routing?
3. Define networking.
4. What is full duplex mode?
5. What are the major elements of VSAT?
6. What is the size of the Host ID in Class A?
7. List any six operating system in the family of Microsoft Windows.
8. What are the specification of 802.11g standard?
9. What is the TCP port number for LOGIN?
10. Which layer is responsible to ensure that data received at the receiver's end in line and error free manner?

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. What is the significance of Ports in computer networks?
12. Write short note on variable size framing.
13. Define the functions of a network switch.
14. What are the advantages and disadvantages of infrastructure mode wireless networks?
15. Differentiate active hub and passive hub.
16. Explain check sum method with an example.
17. How to use ping command to troubleshoot network issues?
18. Describe Infrastructure mode wireless networks.
19. Describe the classification of firewalls.
20. Describe briefly about FTP?

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. Explain any 6 network utilities commands in detail.
22. Define bridge and its functions in networking.
23. Explain Windows NT domain models.
24. Describe unguided transmission media.
25. Explain leaky bucket algorithm with a diagram.
26. Describe IPV6 addressing.
27. Describe WiFi Protected Access (WPA) wireless security protocol.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Explain the wierless security protocols in detail.
29. Elaborate and explain with suitable diagram of TDM,FDM,WDM.
30. Describe in detail about LINUX operating system.
31. Define ISO/OSI model with functions of each layer. Compare it with TCP/IP model.

(12 x 2 = 24)