B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, JULY 2022

First Semester

B.Sc Physics Model II Computer Applications

Vocational Course - CA1VOT02 - COMPUTER NETWORKS & INTERNET TECHNOLOGIES

2017 Admission Onwards

B55C27E8

Time: 3 Hours   Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Give any two advantages of computer network.

2. What is simplex mode?

3. What is peer-to-peer model?

4. What do you understand by transmission media?

5. List any four networking devices.

6. Which are the two ways of implementing TDM?

7. What are the responsibiloes of physical layer?

8. What is the difference between network layer delivery and the transport layer delivery?

9. Name is services provided by application layer

10. Define a Router.

11. Which are the two sub systems of an e-mail system?

12. What is Gopher?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. What is LAN? Expain with a diagram.

14. What are the uses of computer network? Explain.

15. Briefly explain any three unguided media.

16. What is data multiplexing? What are the different multiplexing techinques describing any two?

17. Discuss the major functions performed by the Presentation layer and Application layer of the ISO OSI model.

18. Compare the performance of TCP/IP and ISO/OSI reference model

19. Write a short note on protocols used in application layer.

20. What makes internet an unavoidable service of the present day?

21. Discuss about any 3 Web Browsers and their features.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. What is data communication? What are the different components of data communication?

23. What is Network topology? Explain the different topologies with proper diagram.

24. Explain ISO/OSI reference model.

25. What is E-mail? Which are the e-mail sub systems? Draw and explain the e-mail architecture.

(2×10=20)