

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

BCA. - END SEMESTER EXAMINATIONS APRIL - 2024

SEMESTER - VI

20UACT4007 - Data Communication and Networking

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Illustrate the various components of data communications.
2. Show the difference between point-to-point and multipoint connection in network.
3. Distinguish between the parallel transmission and serial transmission.
4. Explain the functions of twisted-pair cable with diagram.
5. Describe the measure the performance of a coaxial cable.
6. Predict the basic concept of digital signature.
7. Relate the security requirements of public-key signatures.
8. Determine the initialization of tables in distance vector routing.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Rephrase the different categories of networks.
10. Compute the various layers in the OSI model with diagram.
11. Examine the types of connectors for fiber-optic cables.
12. Compare and construct frequency-division multiplexing and wavelength-division multiplexing.
13. Evaluate the concept and functions of link state routing.
