



'समानो मन्त्रः समितिः समानी'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 3rd Semester Examination, 2021

**CC7-COMPUTER SCIENCE (33)**

**COMPUTER NETWORKS**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

**Answer any five questions**

1×5 = 5

1. What is topology?
2. Expand OSI.
3. What is computer network?
4. What is multiplexing?
5. What is the function of transmission media?
6. Name one error correction code.
7. Expand ARQ.
8. What is flow control?

**GROUP-B**

**Answer any three questions**

5×3 = 15

9. Discuss the advantages and disadvantages of mesh topology.
10. Discuss the different protocols present in TCP/IP reference model.
11. Discuss different multiplexing techniques.

12. Discuss the function of network layer of OSI reference model.
13. Differentiate between Cat3 and Cat5 twisted cables.

**GROUP-C**

**Answer any *two* questions**

10×2 = 20

14. Discuss the applications of internet in different areas of the society.
15. Discuss LAN, MAN and WAN with the help of suitable examples.
16. What is ARQ? Explain stop and wait ARQ and go-back-n ARQ.
17. Discuss connection-oriented virtual circuit switching with the help of examples.

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