

## UNIVERSITY OF NORTH BENGAL

B.Sc. Programme 3rd Semester Examination, 2020

## DSC3-COMPUTER SCIENCE COMPUTER NETWORKS

Full Marks: 60

## **ASSIGNMENT**

The figures in the margin indicate full marks. answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

	Answer any three Assignments from the following	$20 \times 3 = 60$
1.	Explain layered network architecture. Explain and compare OSI reference model and TCP/IP protocol suite.	10+10
2.	Explain digital to digital line encoding schemes and pulse code modulation. Differentiate between parallel and serial transmission. Discuss digital to analog modulation and explain different multiplexing techniques.	8+5+7
3.	What is switching? Discuss different types of switching technologies used in Computer Networking.	2+18
4.	Explain different Error detection and error correction techniques.	20
5.	Explain data-link control-framing and flow control and different error recovery protocols like stop and wait ARQ, go-back-n ARQ.	20
6.	What is CSMA/CD? Explain different CSMA/CD protocols.	10+10

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