

# PURBANCHAL UNIVERSITY

2019

Bachelor in Information Technology (B.I.T.)/Fifth Semester/Final

Time: 03:00 hrs.

Full Marks: 60 / Pass Marks: 24

**BIT372CO: Data Communication (New Course)**

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

## Group A

Answer TWO questions.

2×12=24

- 1(a) Explain about OSI model with necessary diagram. 6
- (b) Differentiate between analog and digital transmission. 6
- 2(a) What is multiplexing? Explain about time division multiplexing. 2+4
- (b) Explain about 1G and 2G network. 3+3
- 3(a) What is modulation? Explain about AM, FM and PM. 6
- (b) Explain about flow control with example. 6

## Group B

Answer SIX questions.

6×6=36

4. Explain about digital data analog signal encoding technique with example.
5. What is switching? Explain its types.
6. What is congestion? Why does it occur? Explain token bucket algorithm.
7. Explain Wireless LAN technology.
8. What is Internet protocol? Compare IPV4 with IPV6.
9. What is line of sight? Explain how VPN works?
10. What is Bridge? Compare layer 2 and layer 3 switch.
11. What is interfacing? Explain CRC with example.

