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Unit - III

OR

What do you understand by multiplexing and describe the

Explain the pulse code modulation.

frequency division multiplexing.

Unit - IV

Write down the types of error.

Define network topology.

What is the modem standard?

- What is the vertical redundancy check?
- Write a short note on ISDN.
- Give the importance of switching techniques and explain the circuit switching.

OR

Explain ISDN services and protocols.

Unit - V

- Define guided and unguided media. 5.
 - What do you understand by radiowaves and microwaves?
 - What is the Network Interface Card?
 - Describe the different types of twisted pair.

OR

Explain the cable standard category 5, 6 and 7 cross connection.

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B.E. V Semester

Examination, June 2016

Data Communication

Time: Three Hours

Maximum Marks: 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- Define composite signals.
 - Describe the bandwidth of a channel.
 - Explain the Shannon capacity.
 - Differentiate the analog and digital signals.

Describe the baseband and broadband transmission.

Unit - II

- What is the unipolar encoding?
 - Explain the simplex, half duplex and full duplex with suitable example.
 - Give the differences between synchronous and asynchronous transmissions.
 - Describe the line configuration with point-to-point and point-to-multipoint.

OR

Explain the parallel and serial transmission with different parameters.

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