

MONAD UNIVERSITY
Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245101
Tehsil Hapur (U.P), India
E.C Department

Course: EEC-475 Satellite Communication

Assignment No: 2

Due date of submission: 10.11.2016

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrolment No. clearly at the top of the page.

Q.1

- (a) Explain Mobile Satellite Networks (MSAT).
- (b) Sketch and explain VSAT systems.

Q.2

- (a) Describe Digital DBS TV.
- (b) Explain Global Positioning Systems.

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Course: EEC-473 VLSI Design

Assignment No: 2

Due date of submission: 10.11.2016

Instructions

4. Write the responses to the assignment in your own handwriting.
5. Submit the responses to your HOD within the due date.
6. Write your Name, Programme and Enrolment No. clearly at the top of the page.

Q.1

- (a) Sketch NOT, AND, NAND, OR and NOR gates using CMOS circuits.
- (b) Draw and explain CMOS SR latch.

Q.2

- (a) Explain Domino CMOS logic circuit.
- (b) Sketch and explain the operation of 6 Transistor SRAM cell.

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Course: Data Communication Network (EEC-472)

Assignment No: 2

Due date of submission: 10.11.2016

Instructions

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2. Submit the responses to your HOD within the due date.
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Q.1

- a) Write the difference between pure ALOHA and slotted ALOHA with suitable example and diagram?
- b) What are the network design issues involved in designing a typical network and what are the supporting design tools available to make this design as a good design? Explain how these design tools help to address design issues?

Q.2

- a) What do you mean by congestion control and QoS? What are the parameters of QoS?
- b) What is TCP and UDP? Explain the TCP transmission policy, TCP congestion control and purpose of UDP?

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Course: OPERATIONS RESEARCH (EEC-474)

Assignment No: 2

Due date of submission: 10.11.2016

Instructions

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Q.1

a) Solve graphically.

$$Z = 3x_1 + x_2$$

Subject to

$$2x_1 + 3x_2 \geq 2$$

$$x_1 + x_2 \geq 1, \text{ and } x_1, x_2 \geq 0$$

b) Explain the EOQ Models.

Q.2

- a) Derive the mathematical formulation for LPP
- b) Discuss scope and definition of network models

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Course: Optical Communication (EEC-471)

Assignment No: 2

Due date of submission: 10.11.2016

Instructions

7. Write the responses to the assignment in your own handwriting.
8. Submit the responses to your HOD within the due date.
9. Write your Name, Programme and Enrolment No. clearly at the top of this page.

Q.1

- a) What are the various design issues involved into Optical fiber manufacturing? Explain any one fabrication technique in detail with diagram.
- b) Explain the following losses on Optical fibers;
 - (i) Attenuation (iii) Bending
 - (ii) Absorption (iv) Scattering

Q.2

- a) (i) Explain Intermodal and Intermodal dispersion in Graded index fiber.
(ii) Explain working principle of LASER with suitable diagram. Compare LED & LASER.
- b) (i) Explain the concept of Wavelength Division Multiplexing (WDM).
(ii) Write a short note on Optical Time Domain Reflectometry (OTDR)