



**MONAD UNIVERSITY**  
**ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT**

Established by UP State Govt. Act. No. 23 of 2010, & U/S 2(f) of UGC Act. 1956  
N.H-24, Delhi Hapur Road, District Hapur-245101, (U.P.) India  
[www.monad.edu.in](http://www.monad.edu.in)

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Programme:-B.Tech. (EC) – VIIth Sem  
Course:- Optical Communication (EEC-471)

Assignment No:- 2

Due date of submission:- 23.10.2017

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 this page.

**Q.1**

- (a) Sketch and explain LED.
- (b) Explain Photodetector.

**Q.2**

- (a) Describe Multichannel Transmission Techniques
- (b) Explain Optical time domain reflectometer.



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Programme:-B.Tech. (EC) – VIIth Sem

Course:- Data Communication Network (EEC-472)

Assignment No:- 2

Due date of submission:- 23.10.2017

#### 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 this page.

#### **Q.1**

- (a) As you know about Multiplexing then write the difference between Multiplexing and Multiple Accesses.
- (b) You are aware about Routing Algorithm then write the Design Issues in Routing Algorithms.

#### **Q.2**

- (a) You know about IP Address then write the difference between Hardware Addressing and IP Addressing.
- (b) Define Transport Layer Protocol and write the difference between UDP and TCP.



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Programme:-B.Tech. (EC) – VIIth Sem

Course:- VLSI Design (EEC-473)

Assignment No:- 2

Due date of submission:- 23.10.2017

**Instructions**

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

- (a) Explain dynamic logic circuits.
- (b) Sketch and explain CMOS transmission gates.

**Q.2**

- (a) Explain Ad Hoc Testable Design Techniques.
- (b) Sketch and explain SRAM and DRAM.



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Programme:-B.Tech.(EC) – VIIth Sem

Course:- Operation Research (EEC-474)

Assignment No:- 2

Due date of submission:- 23.10.2017

#### Instructions

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

(a) Determine an initial basic feasible solution to the following transportation problem using the North-West corner rule:

	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>4</sub>	Availability
O <sub>1</sub>	6	4	1	5	14
O <sub>2</sub>	8	9	2	7	16
O <sub>3</sub>	4	3	6	2	5
Requirement	6	10	15	4	

(b) Obtain an initial basic feasible solution to the following transportation problem using Vogel's approximation method.

	I	II	III	IV	
A	5	1	3	3	34
B	3	3	5	4	15
C	6	4	4	3	12
D	4	-1	4	2	19
	21	25	17	17	

Q2.

(a) Solve the minimal assignment problem whose effectiveness matrix is given by

	A	B	C	D
I	2	3	4	5
II	4	5	6	7
III	7	8	9	8
IV	3	5	8	4

(b) Write the algorithm of Game theory.



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Programme:-B.Tech. (EC) – VIIth Sem  
Course:- Satellite Communication (EEC-475)

Assignment No:- 2

Due date of submission: 23.10.2017

**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 this page.

**Q.1**

- a) You know about noise factor in Satellite Communication then define the Noise Temperature of absorptive networks, overall system noise temperature and Criterion of Noise ratio for Satellite Communication.
- b) Write the difference between Modulation and Multiplexing. Explain FDMA, TDMA and CDMA with the help of diagram.

**Q.2**

- a) I know you are aware about INTELSAT Series of satellite communication then explain INSAT and VSAT Mobile satellite services with the help of diagram.
- b) Draw and explain the Functional block diagram of Direct Broadcast satellites (DBS), Direct to home Broadcast (DTH) and Digital audio broadcast (DAB).