



## **MONAD UNIVERSITY**

Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245101

Tehsil Hapur (U.P), India

Electrical Engineering Department

**Programme:** B. Tech 7<sup>th</sup> SEM EEE

**Course:** Switch Gear & Protection

**Course Code:** EEE-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, Program and Enrolment No. clearly at the top of this page.

### **Que.No.1**

- (a) What do you understand by the re-striking voltage transient?
- (b) Write a detail note on pilot wire protection of a transmission line?

### **Que.No.2**

- (a) Explain the arc phenomenon in the circuit breaker?
- (b) Describe the operating principal of DC circuit breaker?



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Electrical Engineering Department

**Programme:** B. Tech 7<sup>th</sup> SEM EEE

**Course:** Satellite Communication

**Course Code:** EEE-472

**Assignment No:** 2

**Due date of submission:** 23.10.2017

### **Instructions:-**

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### **Que.No.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.

### **Que.No.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).



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Electrical Engineering Department

**Programme:** B. Tech 7<sup>th</sup> SEM EEE

**Course:** Power Quality

**Course Code:** EEE-473

**Assignment No:**2

**Due date of submission:** 23.10.2017

### **Instructions:-**

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### **Que.No.1**

(a) How utilities can deal with the problems related to capacitors switching transients?

(b) Explain the various strategies for utilities to use to decrease the impact of lighting?

### **Que.No.2**

(a) Describe about the harmonic filters in detail?

(b) Define following:

- Switching surges
- Good power quality
- Poor power quality
- Outage
- Transient over voltages



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Electrical Engineering Department

**Programme:** B. Tech 7<sup>th</sup> SEM EEE

**Course:** EHVAC & DC Transmission

**Course Code:** EEE-474

**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.
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### **Que.No.1**

- (a) Discuss the method of measuring high impulse currents. Explain the sub-synchronous problem in EHV lines and discuss the counter measures to minimize it.
- (b) What are the various types of HVDC links? Explain briefly

### **Que.No.2**

- (a) Explain the measurement of high voltage by sphere gaps and potential dividers. Also discuss the advantages and disadvantages of sphere gaps method over potential dividers method.
- (b) Explain the voltage multiplier circuits. Also explain the cascade connection of transformer for producing very high AC voltages.



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**Programme:** B. Tech 7<sup>th</sup> SEM EEE

**Course:** Instrumentation & Process Control

**Course Code:** EEE-475

**Assignment No:** 2

**Due date of submission:** 23.10.2017

### **Instructions:-**

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### **Que.No.1**

- (a) Define the Piezoelectric Hall Effect.
- (b) What do you mean by general telemetry system?

### **Que.No.2**

- (a) What do you mean by digital data acquisition system?
- (b) Define
- (i) Transmission Channel
  - (ii) Opto electronic transducers