



## **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 EE

**Course:** Switch Gear & Protection

**Course Code:** EET-471

**Assignment No:** 1

**Due date of submission:** 10.09.2017

### **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 protection system of a power system?
- (b) What do you understand by the relays? How many types of relays? Explain in brief?

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

- (a) Explain the working principal of electromagnetic relay in brief?
- (b) Describe the comparison between induction type relay and thermal relay?



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Electrical Engineering Department

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

**Course:** Electric Drive

**Course Code:** EET-472

**Assignment No:** 1

**Due date of submission:** 10.09.2017

**Instructions:-**

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**Que.No.1**

- (a) What do you mean by Electric Drive? Also explain its parts.
- (b) Explain speed torque conventions.

**Que.No.2**

- (a) Define the different types of load.
- (b) Explain load torque and its components. Also explain constant power operation.



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

**Course:** Power Quality

**Course Code:** EET-473

**Assignment No:** 1

**Due date of submission:** 10.09.2017

### **Instructions:-**

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

(a) What is power quality? Discuss about the cause of power quality deterioration & source of power quality problem

(b) What are transients? Explain factors affecting the transients.

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

(a) Explain about the short duration variations in details.

(b) Explain voltage fluctuation in details.



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Electrical Engineering Department

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

**Course:** EHV AC & DC

**Course Code:** EET-474

**Assignment No:** 1

**Due date of submission:** 10.09.2017

### **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) Give a detail description about the extra high voltage transmission of electrical power.
- (b) What do you understand by bundled conductors? What are the crucial advantages of using it?

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

- (a) Elaborate the term HVDC transmission. Also mention its crucial significances and drawbacks.
- (b) Elaborate a three core underground cable with neat diagram in detail. Also specify the causes of failure of underground cables.



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Electrical Engineering Department

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

**Course:** Power System Practice

**Course Code:** EET-475

**Assignment No:** 1

**Due date of submission:** 10.09.2017

**Instructions:-**

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**Que.No.1**

- (a) Explain about the electrical energy demand and growth in India.
- (b) Define the different energy sources, explain in detail.

**Que.No.2**

- (a) What the requirements for site selection, for a thermal power plant.
- (b) Define
- (i) Impulse Turbine
  - (ii) Francis Turbine