



## **MONAD UNIVERSITY**

Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245101  
Tehsil Hapur (U.P), India  
EE Department

**Programme:** Diploma EE- 4<sup>th</sup> Semester

**Course:** ELECTRICAL MACHINE-II

**Course Code:** DIPEE-223

**Assignment No:** 2

**Due date of submission:** 22.04.2019

### **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) Explain the construction and working principle of synchronous motor.

(b) What do mean by V-Curves? Explain with proper characteristics. .

Que.No.2

(a) Why the synchronous motor is not self starting? Explain the different methods for starting the synchronous motor.

(b) What do you understand by Linear Induction Motor? Explain its principle of operation.



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**Programme:** Diploma EE- 4<sup>th</sup> Semester

**Course:** ELECTRICAL CIRCUIT THEORY

**Course Code:** DIPEE-222

**Assignment No:** 2

**Due date of submission:** 22.04.2019

### **Instructions:-**

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Que.No.1

(a) What do you understand by the following terms: i. node ii. branch iii. mesh iv. active and passive elements

(b) State the following theorems i. Superposition ii. Thevenin's iii. Norton .

Que.No.2

(a) What do you understand by coupled circuit? Explain with a stable example

(b) draw the wave form of the following Function: i. Saw tooth ii. Ramp.



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EE Department

**Programme:** Diploma EE- 4<sup>th</sup> Semester

**Course:** ELECTRICAL AND ELECTRONICS ENGINEERING MATERIALS

**Course Code:** DIPEE-221

**Assignment No:** 2

**Due date of submission:** 22.04.2019

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Que.No.1

- (a) Explain the effect of temperature on resistance of metals.
- (b) What is ceramic? Explain the features and properties of ceramic.

Que.No.2

- (a) What do you understand by semiconducting materials? Explain with a suitable example.
- (b) Classify "Magnetic materials? Explain with a suitable example.



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**Programme:** Diploma EE- 4<sup>th</sup> Semester

**Course:** POWER SYSTEM-II

**Course Code:** DIPEE-224

**Assignment No:** 2

**Due date of submission:** 22.04.2019

### **Instructions:-**

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Que.No.1

- (a) What is Booster? Explain the advantages and disadvantages of Booster.
- (b) Explain the three wire D.C distribution system?

Que.No.2

- (a) What is feeder? Explain the need of feeder in electrical system.
- (b) Explain the routine inspection of overhead transmission line?