



## **MONAD UNIVERSITY**

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

**Programme:** B. Tech 3<sup>rd</sup> SEM EE

**Course:** Electrical Machine-I

**Course Code:** BTEE-211

**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) Derive the E.M.F equation of D.C. Motor?

(b) Discuss the speed control method to control the speed of D.C. motor.

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

(a) Draw the speed and torque characteristics of D.C. compound generator.

(b) Why the starter is needed for D.C. motor? Explain the working of three point starter.



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**Programme:** B. Tech 3<sup>rd</sup> SEM EE

**Course:** Electrical Circuit Theory

**Course Code:** BTEE-212

**Assignment No:** 2

**Due date of submission:** 23.10.2017

### Instructions:-

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### Que.No.1

(a) Write down the transient response of R-L, R-C, R-L-C for DC excitation.

(b)

(i) Find the current in a series R-L circuit having  $R=2\text{ohm}$  and  $L=10\text{H}$  while d.c. voltage of 100V is applied. what is the value of this current after 5 secs. of switching on?

(ii) a d.c. voltage of 100V is applied to a coil having  $R=10\text{ohm}$  and  $L=10\text{H}$ . What is the value of current 0.1 sec later the switching on? What is the time taken by the current to reach half of its final value?

### Que.No.2

(a) Write down the transient response of R-L, R-C, R-L-C for sinusoidal excitation.

(b)

(i) In the fig. the switch K is closed. Find the time when the current from the battery reaches to 500mA.

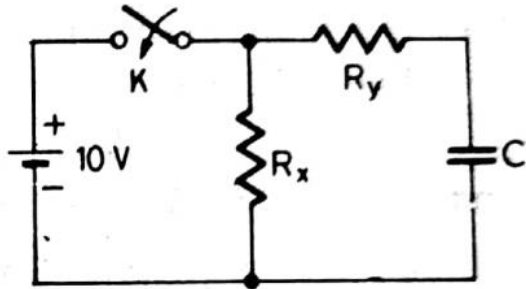


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$$[R_x = 50 \Omega; R_y = 70 \Omega, C = 100 \mu F]$$

- (ii) A 50Hz 400V (peak value) sinusoidal voltage is applied at  $t=0$  to a series R-L circuit having resistance 5 ohm and inductance 0.2H. Obtain an expression of current at any instant "t". Calculate the value of the transient current 0.01 sec after switching on.



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**Programme:** B. Tech 3<sup>rd</sup> SEM EE

**Course:** Electrical Measurement & Measuring Instruments

**Course Code:** BTEE-213

**Assignment No:** 2

**Due date of submission:** 23.10.2017

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**Que.No.1**

**(a)** Explain the different methods of measuring inductance in brief?

**(b)** What is potentiometer? How many types of potentiometer in brief and write the applications also?

**Que.No.2**

**(a)** What is the concept of digital measurement? Explain the digital voltmeter in brief?

**(b)** Explain the CRO in brief with suitable example?



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**Programme:** B. Tech 3<sup>rd</sup> SEM EE

**Course:** Analog & Digital Electronics

**Course Code:** BTEE-214

**Assignment No:** 2

**Due date of submission:** 23.10.2017

### **Instructions:-**

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

- (a) Sketch and explain half and full adders.
- (b) Explain SR Latch with NOR and NAND gates using truth tables.

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

- (a) Explain Universal shift register.
- (b) Sketch and explain write and read cycles of RAM using timing waveforms.



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**Programme:** B. Tech 3<sup>rd</sup> SEM EE

**Course:** Essential of management

**Course Code:** BBA-211

**Assignment No:** 2

**Due date of submission:** 23.10.2017

### **Instructions:-**

Write the responses to the assignment in your own handwriting.

Submit the responses to your HOD within the due date.

Write your Name, Program and Enrolment No. clearly at the top of this page.

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

a) What do you mean by decision- making?

b) What is meant by programmed decisions and non programmed decisions?

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

(a) What is meant by organizing? Briefly explain the objectives of organizing process.

(b) What is an organizational Structure? Why is an organizational structure important?