MONAD UNIVERSITY

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

Programme: B.Tech EE- 4th Semester

Course: ELECTRICAL MACHINE-II

Course Code: BTEE-221

Assignment No: 1

Due date of submission: 12.03.2019

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, Programme and Enrolment No. clearly at the top of this page.

Q.1

a) Derive and explain the EMF equation of synchronous motor.

b) Explain the working principle of synchronous motor.

Q.2

a) Explain the open circuit test and short circuit test on synchronous motor?

b) What are the necessary conditions for parallel operation of synchronous generators? And explain why we use parallel operation of machines?

Programme: B.Tech EE- 4th Semester

Course: BUSINESS ECONOMICS & ACCOUNTING

Course Code: BCOM-221

Assignment No: 1

Due date of submission: 12.03.2019

Instructions:-

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Que.No.1

    a) Define Market structure? What are the determinants of the market structure.
    b) What is perfect competition? How a firm determine its price and output under perfect competition.
    .

Que.No.2

    a) What is Monopoly? Briefly explain its features.
    b) What do you understand by Price discrimination? What are the favourable circumstances for price discrimination.

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EE Department

Programme: B.TECH (EE/EEE) 4th Sem

Course: BASIC SYSTEM ANALYSIS

Course code: BTEE-224

Assignment No: 1

Due date of submission: 12.03.2019

Instruction:

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 Enrollment number clearly at the top of the page.

Q1.

a) Explain unit step, ramp and parabolic functions.

b) Sketch and explain continuous time, discrete time and digital signals.

Q2

a) Explain the various types of systems.

b) Write the properties of Impulse function.

Programme: B. Tech. (4th Sem.)

Assignment No: 1

Course: ELEMENTS OF POWER SYSTEM

Subject code: BTEE-222

Assignment submission date: 12/03/2019

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, Programme and Enrolment No. clearly at the top of this page.**

Q.1

   (a) Explain and draw the single line diagram of power system.

   (b) Explain the advantages of using overhead lines compared to underground cables.

Q.2

   (a) Discuss the effect of increase in voltage on the transmission line efficiency?

   (b) Explain in briefly "Skin effect" and "Proximity effect" in power system.

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Tehsil Hapur (U.P), India

EE Department

Programme: B. Tech. (4ᵗʰ Sem.)

Assignment No: 1

Course: ELECTRICAL AND ELECTRONICS ENGINEERING MATERIALS

Subject code: BTEE-223

Assignment submission date: 12/03/2019

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, Programme and Enrolment No. clearly at the top of this page.**

Question No. 1.

a) What are miller indices and why are the used?
b) What are the different types of bonds in solids explain each of them.

Question No. 2.

a) What are the types of structural imperfections in crystal growth? Define each of them.
b) What are the energy bands in solids and classified them using energy band theory**.**