



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: 12.03.2018

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 the EMF equation of synchronous motor.
- b) Draw the equivalent circuit of synchronous motor.

Q.2

- a) Why we perform the open circuit test and short circuit test on synchronous motor? Explain in detail.
- b) What are the necessary conditions for parallel operation of synchronous generators? And explain why we use parallel operation of machines?



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EE Department

Programme: B.Tech EE- 4th Semester

Course: BUSINESS ECONOMICS & ACCOUNTING

Course Code: BCOM-221

Assignment No: 1

Due date of submission: 12.03.2018

Instructions:-

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2. Submit the responses to your HOD within the due date.
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Que.No.1

- a) What are the fundamental concepts and principles of management economics?
- b) Explain significance of Managerial Economics in Decision-Making?

Que.No.2

- a) Define 'Managerial Economics'. Explain its characteristics also.
- b) Who is Managerial Economist? Explain roles of Managerial Economist.



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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: 12.03.2018

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 time shifting, reversal and scaling operations.
- b) Write the properties of Impulse function.



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EE Department

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

Assignment No: 1

Course: ELEMENTS OF POWER SYSTEM

Subject code: BTEE-222

Assignment submission date: 12/03/2018

Instructions:-

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Q.1

- (a)** Explain why the voltage drop is of primary concern in the design of the distributors.
- (b)** Discuss 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 briefly “Skin effect” and “Proximity effect” in reference to over head transmission line?



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EE Department

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

Assignment No: 1

Course: ELECTRICAL AND ELECTRONICS ENGINEERING MATERIALS

Subject code: BTEE-223

Assignment submission date: 12/03/2018

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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Question No. 1.

- a) What are miller indices and why are they 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 classify them using energy band theory.