



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Session - (2018-2019)

Programme Name:

Student's Name:

Father's Name:

Enrollment Number:

Course Name:

Course Code:

Assignment Number:

Date of Submission:

Course Faculty Signature



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-**01/03/2018**

Course: EME-361, Machine Design -II

Assignment No: I

Due date of submission: **12 /03/2018**

Instructions

1. Write the responses to the assignment in your own hand writing & don't copy from other's assignment.
2. Submit the responses to your "**course faculty**" within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

- (a) You already know about spur gear. If yes, explain the terminologies involved in a spur gear profile.
- (b) You are already aware of gear, explain the classification of gear.

Q.2

- (a) As you are familiar with the selection of gear material, explain the various types of gear manufacturing methods.
- (b) You are aware about beam strength of gear tooth; derived the tangential load on a spur gear tooth.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2018

Course: EME-362, Non Conventional Energy Resources

Assignment No: I

Due date of submission: **12/03/2018**

Instructions

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Q.1

- (a) I know you are aware about renewable energy. Discuss the basic difference between renewable energy & non renewable energy.
- (b) I know you are aware about Solar Energy Potential. Discuss about the solar energy and its uses.

Q.2

- (a) We are familiar with solar collectors. Define the types of solar collectors.
- (b) You are familiar with Expectations from the Renewable Energy during the 11th Plan. Define the Estimated Potential during the 13th Plan.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2018

Course: EME- 363, Theory of Machines- II

Assignment No: I

Due date of submission: **12/03/2018**

Instructions

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Q.1

(a) As you already know about flywheel; derive an expression for maximum fluctuation of energy in a flywheel.

(b) As you are familiar with flywheel; explain the role of a flywheel.

Q.2

(a) As you are familiar with turning moment diagram: explain the working of a single cylinder double acting steam engine with the help of turning moment diagram.

(b) You already have studied dynamic force analysis; explain the dynamic force analysis of a slider crank mechanism.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2018

Course: EME-364, Fluid Machinery

Assignment No: 1

Due date of submission: **12/03/2018**

Instructions

1. Write the responses to the assignment in your own hand writing & don't copy from other's assignment.
2. Submit the responses to your "**course faculty**" within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

- (a) You are aware about the different type of turbine. If yes, then explain different type of turbines.
- (b) You know about Pelton wheel turbine. Describe the main parts of the Pelton wheel turbine.

Q.2

- (a) You know about impact of jet. Derive an expression for force exerted by the jet of water when jet strikes on a stationary inclined plate.
- (b) You are familiar about impulse and reaction turbine. Explain the working principle of both the turbines.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2018

Course: EME -365, Refrigeration & Air conditioning

Assignment No: 1

Due date of submission: **12/03/2018**

Instructions

1. Write the responses to the assignment in your own hand writing & don't copy from other's assignment.
2. Submit the responses to your "**course faculty**" within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

(a) You are aware about refrigeration system. Explain how refrigerant play important role in refrigeration system.

(b) You are familiar about air refrigeration cycle. If yes, then explain its all processes with the help of P-V & T-S diagram.

Q.2

(a) You know about refrigeration cycle. Explain the coefficient of performance and its significance.

(b) You are aware about air refrigeration system. If yes, then differentiate between open refrigeration system and closed refrigeration system.



DEPARTMENT OF MECHANICAL ENGINEERING MONAD UNIVERSITY, HAPUR

Dated:-01/03/2018

Course: EME -366, Industrial Management

Assignment No: 1

Due date of submission: **12/03/2018**

Instructions

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2. Submit the responses to your "**course faculty**" within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

- a) "Management is to the business, what mind is to a human being." Explain this statement.
- b) What are the essential characteristics of the principles of management? Do they suffer from any limitation?

Q.2

- a) "Planning is looking ahead, and control is looking back." Explain.
- b) Explain in detail about 14 principles propounded by Henry Fayol.