



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Session - (2017-2018)

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:-10/04/2018

Course: BTME –221, Engineering Thermodynamics

Assignment No: II

Due date of submission: **20/04/2018**

Instructions

1. Write the responses to the assignment in your own handwriting & 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 second of thermodynamics. If yes, then explain Kelvin- Planck and Clausius statements with the help of diagram.

(b) You are familiar about Carnot theorem. Show that Carnot cycle has maximum efficiency when it is operated between same temperature limit.

Q.2

(a) You already have studied the entropy. Explain entropy change in different processes.

(b) You are aware about heat engine. Derive the efficiency of heat engine.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-10/04/2018

Course: BTME- 222, Strength of Materials- II

Assignment No: II

Due date of submission: **20/04/2018**

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Q.1

(a) As you already know about springs; explain helical spring along with its applications, advantages and disadvantages.

(b) As you already know about theories of failure; explain the following:

1. Maximum Principal Stress theory
2. Maximum Principal Strain theory

Q.2

(a) As you are familiar with the concept of pressure vessels; explain hoop stress and longitudinal stress.

(b) You already have studied about leaf spring; explain leaf spring along with its applications, advantages and disadvantages.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-10/04/2018

Course: BTME-223-Fluid Machine

Assignment No: II

Due date of submission: **20/04/2018**

Instructions

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Q.1

(a) You are aware about governing of turbine. Describe with a neat sketch the working of an oil pressure governor.

(b) You know about hydraulic accumulator. Describe it with neat sketch.

Q.2

(a) You know about air vessel. Describe the function of the air vessel for reciprocating pump.

(b) You are familiar about centrifugal pump. Describe the main parts of a centrifugal pump with neat sketch.



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-10/04/2018

Course: BTME-224, Manufacturing Technology-II

Assignment No: II

Due date of submission: **20/04/2018**

Instructions

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Q.1

- (a) I know you are aware about gear manufacturing. Define gear manufacturing process.
- (b) I know you are familiar with gear generation and forming process. Discuss the differences between gear generation and forming process.

Q.2

- (a) You are familiar with the methods of tool temperature measurement. Elaborate the methods of tool temperature measurement.
- (b) You know about thermal aspects in machining processes. Define thermal aspects in machining processes.



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-10/04/2018

Course: BTME—225, Kinematic Of Machines.

Assignment No: II

Due date of submission: **20/04/2018**

Instructions

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Q.1

(a) You are aware about the belt drive system. If yes, then explain it.

(b) You know that Pantograph is very important in the field of Engineering. Please explain it.

Q.2

(a) You know about the friction. If yes, then explain with example.

(b) You are aware about Cam and follower. If yes, then explain it.



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-10/04/2018

Course: BCOM—221, Business Economics & Accounting.

Assignment No: II

Due date of submission: **20/04/2018**

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) Briefly explain meaning and characteristics of monopolistic competition.
- (b) Define equilibrium of firm.

Q.2

- (a) Briefly differentiate between rent and quasi-rent.
- (b) Define managerial productivity theory and modern theory of wages.