



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:-01/03/2019

Course: BTME 221 – Applied Thermodynamics

Assignment No: 1

Due date of submission: **12/03/2019**

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 boiler. Write the classification of boilers.

(b) You are familiar about fire tube boiler. Explain working principle of Cochran boiler with neat diagram.

Q.2

(a) You know about water tube boiler. Explain working principle of Babcock-Wilcox boiler with neat diagram.

(b) You are aware about boiler mounting. Describe different types of mounting used in boiler.



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: BTME-222, Theory of Machine-I

Assignment No: 1

Due date of submission: **12/03/2019**

Instructions

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2. Submit the responses to your “**course faculty**” within due date.
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Q1.

- (a) As you already know about kinematic pairs. Explain the classification of kinematic pairs with example.
- (b) As you already know about link. Explain rigid, flexible and fluid links with example.

Q2.

- (a) As you are familiar with the study of relative motion in machine elements. Explain the differences between kinematics and dynamics.
- (b) As you already know about mechanism. Explain the single slider crank mechanism with diagram.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: BTME-223 Measurement and Instrumentation.

Assignment No: 1

Due date of submission: **12/03/2019**

Instructions

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3. Write your name, programme, and Enrollment no. clearly at the top of the page.
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Q.1

- (a) You are aware about transducer. Describe the characteristics of a good transducer.
- (b) You know about primary, secondary and tertiary measuring instruments. Explain it with example.

Q.2

- (a) You are aware about errors of measurement. What are the causes of errors of measurement?
- (b) You are aware about static performance characteristics of instrument. Explain it.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: BTME-224-Fluid Machines

Assignment No: 1

Due date of submission: **12/03/2019**

Instructions

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
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Q.1

- (a) You are aware about the different type of turbine. 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. Differentiate between impulse and reaction turbine.



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

BTME-225 Manufacturing Technology-I

Assignment No: 1

Due date of submission: **12/03/2019**

Instructions

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4. Each question's part carries 5 marks.

Q.1

- (a) I know you are aware about the metal forming process. Define the advantages of metal forming process.
- (b) I know you are familiar with hot and cold working process. Discuss the difference between hot and cold working process.

Q.2

- (a) You are very well familiar with forging process. Elaborate forging is better than casting.
- (b) You know about wire and tube drawing very well. Write the factors to control the wire drawing process.



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

ES-224 Electrical Machines and Automatic Control.

Assignment No: 1

Due date of submission: **12/03/2019**

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) Explain the working principle of single phase transformer.
- b) Explain the O.C and S.C test of transformer.

Q:-2

- a) Explain advantages and disadvantages of autotransformer.
- b) Explain the concept of starting of DC motor.



DEPARTMENT OF MECHANICAL ENGINEERING

MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

BCOM-221 Business Economics & Accounting

Assignment No: 1

Due date of submission: **12/03/2019**

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) Define Market structure. Write the determinants of the market structure.
- b) What is perfect competition? How firms determine its price and output under perfect competition?

Q:-2

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