



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: EME-481 Advanced Materials Technology

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) I know you are aware about non-ferrous materials. Write the importance of Ultra-light materials in our daily lives.
- (b) We know about cast iron. Discuss the effects of recognized patterns of distribution of graphite flakes in grey cast iron.

Q.2

- (a) You are aware about case depth hardening. Write the microscopic determination of case depth and depth of hardening.
- (b) You are aware about heat treatment process. List the benefits of heat treatment process.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: EME-482 Power Plant Engineering

Assignment No: 1

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

Instructions

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Q.1

- (a) You are aware about power plant engineering. Explain different types of power plants where electricity is produced.
- (b) You know about load factor and capacity factor. Explain it.

Q.2

- (a) You are familiar with boiler mounting and accessories. Describe different types of boiler mounting and accessories.
- (b) You are aware Rankine cycle. Derive an expression of thermal efficiency for Rankine cycle.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: EME 483- Environmental Protection and Management

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) What is environmental science?
- (b) What is the role of Air in environment?

Q.2

- (a) What are main differences between living and non living organisms?
- (b) How we get Vit-D from environment explain it?



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: EME 484- Six Sigma methods & Application

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) As you are aware about quality. Explain the concept behind quality in manufacturing.
- (b) As you are familiar with the concept of Six Sigma. Write any one six sigma success story.

Q.2

- (a) As you are aware about quality. If yes, then differentiate quality of performance and quality of conformance.
- (b) As you are familiar with the concept of statistics. If yes then find the mean, median, mode, range and standard deviation for the data: 30,20,15,30,35,50,40,40,30,25.