



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:-10/04/2019

Course: EME-481 Advanced Materials Technology

Assignment No: 2

Due date of submission: **22/04/2019**

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 smart materials. Write the importance and application of smart materials in our daily lives.

(b) We know about refractory materials. Discuss the about refractory materials and coatings for high temperature applications.

Q.2

(a) You are aware about biomaterials. Write the classes and applications of materials in medicine in dentistry.

(b) You are aware about composites materials. Discuss about metal-metal composites.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-10/04/2019

Course: EME-482 Power Plant Engineering

Assignment No: 2

Due date of submission: **22/04/2019**

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 pressurized water reactor (PWR). Explain pressurized water reactor (PWR) with neat sketch.

(b) You know about diesel engine power plant. Enlist the advantages and disadvantages of diesel engine power plant.

Q.2

(a) You are familiar with hydraulic power plant. Discuss the factors which should be considered while selecting a site for a hydroelectric plant.

(b) You are aware Brayton cycle. Derive an expression of thermal efficiency for Brayton cycle.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-10/04/2019

Course: EME 483- Environmental Protection and Management

Assignment No: 2

Due date of submission: **22/04/2019**

Instructions

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
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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) What is the importance of water in our daily life?

(b) Write short notes on "CHIPKO MOVEMENT".

Q.2

(a) Write an essay on soil pollution.

(b) Describe details about Pond Ecosystem.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-10/04/2019

Course: EME 484- Six Sigma methods & Application

Assignment No: 2

Due date of submission: **22/04/2019**

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) As you are aware about quality cost. Explain the following terms:

- | | |
|---------------------------|---------------------------|
| i. Prevention cost | iii. Appraisal cost |
| ii. Internal failure cost | iv. External failure cost |

(b) As you are familiar with the concept of six sigma. What are the features of six sigma?

Q.2

(a) As you are aware about six sigma. Explain the key elements of six sigma process improvement.

(b) As you are familiar with the concept of organization. Explain the responsibilities of the following in an organization:

- | | |
|----------------|--------------|
| i. Leadership. | ii. Sponsor. |
|----------------|--------------|