



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: EME-481, Advanced Materials Technology

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) I know you are aware with heat treatment of steels. Write the importance of heat treatment of steels.
- (b) We are familiar with TTT diagram of steel. Discuss about TTT diagram of steel.

Q.2

- (a) We have the variety and availability of refractory materials. Write the advantages of refractory materials for the coatings in high temperature applications.
- (b) You are aware about biomaterials. Discuss about Stress strain behavior of bone?



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-10/04/2018

Course: EME-482-Power Plant Engineering.

Assignment No: II

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

Instructions

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Q.1

- (a) You know about thermal reactor. Describe pressurized water reactor with neat sketch.
- (b) You are aware about the diesel electric power plant. What are the advantages and disadvantages of diesel electric power plant?

Q.2

- (a) You are familiar with governing of steam turbine. Describe throttle governing and nozzle governing with neat sketch.
- (b) You are aware about compounding of steam turbine. What are the different methods of compounding? Describe each of them.



DEPARTMENT OF MECHANICAL ENGINEERING
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Dated:-10/04/2018

Course: EME-483- Environmental Protection and Management.

Assignment No: II

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

Instructions

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4. Each question's part carries 5 marks.

Q.1

- (a) What is the concept of ecosystem?
- (b) Draw the diagram of pyramid of energy.

Q.2

- (a) Write short notes on Biosphere.
- (b) What are the segments of environment?



DEPARTMENT OF MECHANICAL ENGINEERING
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Dated:-10/04/2018

Course: EME 484- Six Sigma methods & Application

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) You know about six sigma. Explain understanding Six Sigma organization.
- (b) You are familiar about project sponsor. Explain the responsibilities of project sponsor.

Q.2

- (a) You know about implementation role in six sigma. If yes, then explain several key roles for its successful implementation.
- (b) You are aware about methodology of six sigma. Explain Design for six sigma (DFSS).