

Session - (2018-2019)

Student's Name: Father's Name: Enrollment Number: Course Name: Course Code: Assignment Number:	
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Dated:- 10/04/2019

Course: BTME 221 – Applied Thermodynamics

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) You are aware about steam condenser. Explain the working principle of jet condenser with neat sketch.
- (b) You are familiar about steam engine. Explain basic component of a steam power plant with neat diagram.

- (a) You know about Rankine cycle. Explain the processes involved in it with the help of neat T-S diagram.
- (b) You are aware about steam nozzle. Derive the required conditions for maximum mass flow rate in case of nozzles.



Dated: 10/04/2019

Course: BTME 222 – TOM-1

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
- 2. other's assignment.
- 3. Submit the responses to your "course faculty" within due date.
- 4. Write your name, programme, and Enrollment no. clearly at the top of the page.
- 5. Each question's part carries 5 marks.

Q1

- (a) As you already know about friction. Explain the types of friction.
- (b) As you already know about gears. Differentiate between a spur gear and a helical gear.

Q2.

- (a) As you are familiar with the concept of friction. Explain the laws of friction.
- (c) As you already know the concept of free body diagram. Calculate the weight and coefficient of friction of a body if 320 N force at 300 is required to just move it while pushing; whereas 380 N force at same angle is required for pulling.



Dated:-10/04/2019

Course: BTME-223 Measurement and Instrumentation.

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 **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 pneumatic load cell. Describe the working principle of pneumatic load cell.
- (b) You know about thermistor. Write short note on thermistor.

- (a) You are aware about piezometer tube. Describe it with neat sketch.
- (b) You are aware about total radiation pyrometer. Describe the working principle of total radiation pyrometer.



Dated:-10/04/2019

Course: BTME-224-Fluid Machines

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) You are aware about the centrifugal pump. If yes, then explain different type of centrifugal part.
- (b) You know about reciprocating pump. Describe the main parts of the reciprocating pump.

- (a) You know about draft tube. Why is it used in a reaction turbine?
- (b) You are familiar about specific speed and unit quantities of turbine. Explain the specific speed of pump and turbine of both the turbines.



Dated:-10/04/2019

Course: BTME-225 Manufacturing Technology-I

Assignment No: 2

Due date of submission: 22/04/2019

Instructions

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Q.1

- (a) I know you are aware about welding process. Define the advantages of welding process.
- (b) I know you are familiar with Oxy-acetylene welding. Define the working principle of Oxy-acetylene welding.

- (a) You are very well familiar powder metallurgy. Elaborate powder metallurgy.
- (b) You know about utilization of drilling machining. Define the operations of drilling machine.



Dated:-10/04/2019

Course: ES 224 - Electrical Machines & Automatic Control

Assignment No: 2

Due date of submission: 22/04/2019

Instructions

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

- (a)Explain in details AC servomotor.
- (b)Explain the starting methods of Synchronous motor.

- (a) What do you mean by synchronous condenser?
- (b) Explain the open loop and close loop control system with example.



Dated:-10/04/2019

Course: BCOM 221 - Business Economics & Accounting

Assignment No: 2

Due date of submission: 22/04/2019

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.

01

- **a)** What is Monopolistic competition? Discuss the main features of monopolistic competition.
- **b)** Differentiate between monopolistic competition & Monopoly.

Q2

- a) Discuss Ricardian classical theory of Rent. Also point out its assumption.
- **b)** What is meant by term INTEREST? Also explain Net interest & Gross interest.