

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

Dated:-01/03/2019

Course: BTME 321 – Operation Research

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 of the operations research. Explain the scope of operations research.
- (b) Define linear programming problem with examples.

Q2.

- (a) As you are aware of the transportation problems. Write down the names of the transportation methods.
- (b) What are the assignment problems, define with an example?



Dated:-01/03/2019

Course: BTME 322 - Refrigeration & Air conditioning

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 refrigeration system. Explain method of refrigeration system.
- (b) You are familiar about air refrigeration cycle. Differentiate between open and closed air refrigeration cycle.

- (a) You know about aircraft refrigeration system. Write merits and demerits of aircraft refrigeration system.
- (b) You are aware about Bell Coleman cycle. Derive an expression of coefficient of performance for reversed Bell Coleman cycle.



Dated:-01/03/2019

Course: BTME-323 Machine Design -II

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 already known about law of gearing. Explain the terminologies involved in a spur gear profile.
- (b)You are already aware of involutes gear. Explain the classification of gear.

- (a) As you are familiar with the selection of gear material. Explain the various types of gear manufacturing methods.
- (b) You are aware about pitch circle, addendum and back lash of gear tooth; derived the tangential load on a spur gear tooth.



Dated:-01/03/2019

Course: BTME-324 Measurement and Instrumentation.

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 measuring instruments. Write the applications of measuring instruments.
- (b) You know about functional elements of a measuring system. Explain it.

- (a) You are familiar with resistance strain gauges. Explain the principle of resistance strain gauges.
- (b) You are aware transducer. Describe piezoelectric transducer.



Dated:-01/03/2019

Course: BTME-325 Heat and Mass Transfer

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 "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 already know about heat transfer. Explain the different modes of heat transfer with examples.
- (b) As you are aware about conduction; derive the one dimensional, steady state conduction equation for composite slab.

- (a) As you are familiar with the concept of insulation. Find the critical radius of insulation for a cylindrical object.
- (b) As you already know the concept of heat transfer. Define the following terms:
 - i. Thermal Conductivity
 - ii. Convection heat transfer coefficient
- iii. Thermal diffusivity