

Modi Institute of Technology, Kota

B.Tech (3rd Year, VI Sem.)

1st Mid-Term (2017-18)

Branch: MECHANICAL ENGINEERING

Subject: Vibration Engineering

TIME: 1hr.

M.M.: 10

Attempt any two questions. All questions carry five marks:-

Que.1. What are the major industrial noise sources? Explain various strategies used to control the industrial noise.

Que.2. Explain the following: (i) Sound power level, (ii) Sound pressure level.

Que.3. Add the following harmonic motions analytically.

$$X_1 = 4 \cos(\omega t + 10^\circ)$$

$$X_2 = 6 \sin(\omega t + 60^\circ)$$

Modi Institute of Technology, Kota

B.Tech (3rd Year, VI Sem.)

1st Mid-Term (2017-18)

Branch: MECHANICAL ENGINEERING

Subject: Maintenance Management

TIME: 1hr.

M.M.: 10

Attempt any two questions. All questions carry five marks:-

Que.1. What do you understand by inventory? Describe the purpose of inventory control and also describe the different type of inventory cost.

Que.2. Describe the term TQM & TPM and Explain Difference between them.

Que.3. Write an essay on CMMS.

MIT, KOTA

B.TECH VI SEM I MIDTERM EXAM 2018

BRANCH: ME SUB: STEAM ENGG.

TIME: 1 HR

M.M.: 10

NOTE: Attempt any two and each carry five marks.

Q.1 Explain high pressure boiler and natural circulation boiler.

Q.2 Differentiate between water and fire tube boiler.

Q.3 Write short note on any one

(a) Explain nozzle and diffuser with its application.

(b) Stagnation pressure and stagnation temperature both for steam and gas nozzle.

Modi Institute of Technology, Kota
Ist Midterm
III Year VI Sem
Branch: Mechanical Engineering
Sub: Mechatronics

Time:1 Hr

MM:[10]

Attempt any two questions. Each question carries five marks.

Q1. What do you mean by mechatronics? Explain open loop and close loop control system with suitable block diagram.

Q2. What is Sensor? How many types of sensors are used in mechatronics system? Explain Proximity sensors.

Q3. Explain the working of Seismic accelerometer with schematic diagram.

*****Best of Luck*****

Modi Institute of Tech, Kota

Ist Mid term

VI Sem III Year

Branch -Mechanical Engg.

Subject- DME II

Time:1 hour

Attempt any two question. each question carries five marks

Q.1 Discuss about the Goodman and Soderberg line in detail with suitable diagram ?

Q.2 The cylinder of a four stroke diesel engine has the following specification?

bhp:3.75kw

eff:80%

speed =1000 rpm

Imep=0.35 mpa

determine the bore and length of the cylinder?

Modi Institute of Tech, Kota

Ist Mid term

VI Sem III Year

Branch -Mechanical Engg.

Subject- NMM

Time:1 hour

Attempt any two question. each question carries five marks

Q.1 Classification of hybrid process also explain difference between traditional and nontraditional manufacturing process?

Q.2 Discuss about AFM Working Principal and Classification with suitable diagram?

Q.3 discuss about AJM method with suitable diagram?