

# JS UNIVERSITY

## **ASSIGNMENT FOR DIPLOMA IN MECHANICAL 5<sup>TH</sup> SEM.**

The Assignment will consist of two parts, A and B. Part A will have 5 short answer questions(40-60words) of 4 marks each. Part B will have 4 long answer questions of 5 marks each.

### **All questions are compulsory.**

These Assignments should be completed and submitted in written form by the student to his/her respective Faculty/ Examiners. Assignment Submission Dates are:

### **List Of Suggested Questions**

The list of suggested questions is for students to practice. Although optional, we recommend that

students solve these questions, as they will help them in preparing for exams as well as in clearing

the important concepts of the subject.

### **List of Practical and suggested practical's**

The list of practical's should be done by the students in their Lab Sessions. These are the basic practical's, which each student should be able to do himself independently. While the list of suggested practicals are optional, but it is recommended that students should perform those practical

so as to have a thorough knowledge of the subject

### **Education Delivery Schedule (EDS)**

As per University Semester scheme, the minimum contact hours of each paper has been Divided into two hours theory and practical class.

The faculty will maintain this attendance paper wise for his/her batch.

SUBJECT CODE	SUBJECT NAME
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<b>DME 1</b>	Industrial Management and Entrepreneurship Development
<b>DME 2</b>	Theory of Machine
<b>DME3</b>	M/c Tool Tech. &Maintenance
<b>DME 4</b>	Design & Estimation
<b>DME6</b>	Automobile Engine

**Cover page of Assignment**

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\_ID NUMBER .....

NAME .....

COURSE DIPLOMA.....

STREAM MECHANICAL.....

SEM 6 TH .....

SUBJECT CODE .....

SUBJECT NAME .....

**Assignments will be completed by the Student in his/her own handwriting.**

**Industrial Management and Entrepreneurship Development**

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## Part A

1. Explain the relationship between employers and employees, the link between work and pay ?
2. What is types of management responsibility - to the organization and for subordinates ?
3. Explain business organization, the division and specialization of labour, forming workgroups.
4. How to explain employee counseling , disciplinary action, equal opportunity policy, matters regarding promotion?
5. Explain Communication: two-way, the effects on motivation and benefits of good communication.?

## Part B

1. Company XYZ has an annual demand of 1,000 units. The ordering cost is Rs. 100 per order and the carrying cost is Rs. 100 per unit. If the stock-out cost is Rs. 400 each time the company runs out-of-stock, determine the safety stock required that would justify the carrying cost?
2. What are the various environmental factors that a manager should consider in an Organization .

## Theory of Machine

### PART-A

- Q1. With a neat sketch, explain construction and list application of a centrifugal clutch.
- Q.2 Enlist the factors on which capacity of a brake depends.
- Q.3 Differentiate transmission type dynamometer and absorption type dynamometer? Explain any one type of absorption dynamometer.
- Q.4) Suggest the characteristics of good friction material for clutch.
- Q.5 What are the leading and trailing shoes of an internal expanding shoe brake?

### PART-B

- Q.1 What do you understand by gyroscopic couple ? Derive a formula for its magnitude.
- Q.2 Explain in brief the application of gyroscopic principles to aircrafts

## M/c Tool Tech. & Maintenance

### PART-

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- Q.1 Describe basic requirements of machining.
- Q.2 Explain the construction of Merchant force diagram.
- Q.3 List out various tool materials and explain their applications.
- Q.4 Explain the use of chip breakers in metal cutting.
- Q.5 Explain the principal features of automatic lathes.

## **PART-B**

- Q.1 Differentiate between single spindle and multi spindle automatic lathes.
- Q.2 Discuss the working of various tool holding devices of lathe.

## **Design & Estimation**

### **PART-A**

- Q.1 What is Earthing?
- Q.2 How electric system is protected from short circuit?
- Q.3 What are the types of loads present in residential buildings?
- Q.4 What are the types of loads present in commercial buildings?
- Q.5 What are the voltage levels of overhead transmission lines?

### **PART-B**

- Q1 )With the help of neat sketch, Explain about three phase four wire distributed system.
- Q.2 Discuss in detail about the guidelines for the installation of fittings.

## **Automobile Engine**

### **PART-A**

- Q1.Explain break down maintenance and preventive management.
- Q2.Explain classification of tool and equipment for automobile workshop.
- Q3.Explain cylinder boring.
- Q4.Explain cleaning of cooling system.

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Q5.Explain causes of engine overheating.

## **PART-B**

Q1.Explain defferent types of lifting jack.

Q2.Explain workshop layout.