

**D. Voc Mechanical Manufacturing**  
**Subject: Plant Maintenance & Material Handling**  
**Subject Code: ME-506**  
**Semester: Fifth**  
**Session: - September 2022**  
**Theory (External): 70 Marks**  
**Time: 03 Hours**

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**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 2.marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

**Roll Number**

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**SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)**  
(10x2=20 Marks)

- A. What do you mean by combined handling?
- B. List any four advantages of a good handling system.
- C. Define ASRS.
- D. How will you designate winter grade oils?
- E. What is preventive maintenance?
- F. What do you mean by repairing?
- G. What is the function of a spirit level?
- H. What is the function of a dial gauge?
- I. What is Material management?
- J. Define Interference fit.

**SECTION –B (ESSAY TYPE QUESTIONS)**  
(5x10=50 Marks)

1. What are the various testing methods for the acceptance of machine tool? What are the functions of AGV vehicles?
2. Explain the significance of B-T curve in the life span of machine tool. What are common instruments required for testing?

3. What are the causes of failure of a shaft coupling?
4. What are the different types of Geometric Tolerances? Explain with the help of examples.
5. What is calibration? Why the calibration of instruments is required. What is the procedure for recalibration of Vernier Caliper?
6. Explain in detail the repair and maintenance of engines.
7. Enlist some methods of lubrication in mechanical systems. Why the grading of lubricant is necessary? What are the different grades of lubricant?
8. How do you explain about the importance of Material Handling System? Illustrate about the functions involved in Material Handling System.

==END OF PAPER==