



UNIVERSITY OF RUHUNA

Faculty of Engineering

Mid-Semester 7 Examination in Engineering: June 2014

Module Number: ME 7320

Module Name: Maintenance Management

[Two Hours]

[Answer all questions, each question carries five marks]

- Q1. a) Distinguish between plant maintenance and plant maintenance management. [2.0 Marks]
- b) "Maintenance department in production plant context can be identified as an entity that deals with many other departments on various requirements". Explain. [3.0 Marks]
- Q2. a) What are the different types of maintenance techniques? Briefly explain two of them. [2.0 Marks]
- b) Explain the time based, usage based, and condition based preventive maintenance activities with suitable examples. [3.0 Marks]
- Q3. a) In maintenance point of view, how do Non Destructive Testing (NDT) techniques help to enhance the maintenance program? [3.0 Marks]
- b) Explain four NDT techniques with suitable applications. [2.0 Marks]
- Q4. a) What are the key performance indicators (KPIs) used to measure the performance level of a maintenance system? [1.0 Marks]
- b) Assuming that you are the maintenance engineer in a manufacturing company; *briefly write* a discussion to explain to your top management about the importance of KPIs and how they can be utilized to increase the productivity of your industry. [4.0 Marks]