THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF ENGINEERING TECHNOLOGY
BACHELOR OF INDUSTRIAL STUDIES (MANAGEMENT)
FINAL EXAMINATION 2008/2009

MEX5255 – MAINTANANCE MANAGEMENT AND PROJECT MANAGEMENT

DATE : 24th MARCH 2009
TIME : 1400Hrs – 1700Hrs
DURATION : 03 Hours

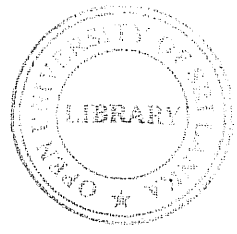
INSTRUCTIONS:

- **Answer any five (05) questions.**
- **All questions carry equal marks.**
- **Please answer the questions in Part A and Part B on separate ANSWER BOOKS. Part A has THREE questions and Part B also has THREE questions.**

PART A

01. Explain

a) (i) Preventive Maintenance
(ii) Condition Based Maintenance
(iii)Total Productive Maintenance



b) Illustrate with examples how condition based maintenance could reduce the cost of preventive maintenance.

c) What types of information are required to draw up a planned preventive programme in a processing plant?

02. Explain

a) Noise and units of measuring noise.

b) Relative scale to compare sound intensity starting from the threshold of hearing to human ear. In which way does the noise can affect our health?

c) List out the methods of reducing noise level.

03. Explain

a) Ionization Radiation.

b) Under what circumstances do the workers get exposed to ionization radiation?

c) Mention the health hazards caused by ionizing radiation and the methods of minimizing the exposure to ionizing radiation.

PART B

04. (a) Explain Key functions of Work Breakdown Structure (WBS) and discuss why it is important to the Project Manager in managing a mega project.

(b) Assume that you have been appointed as the Project Manager in a project of "Installation of Waste Water Treatment Plant" in a factory located in a residential area under a capital expenditure approval of their multi - national corporation in the USA.

i) Identify different stake holders and their needs and wants.

ii) Develop a WBS for this project.

05. (a) Explain the key difference between functional management and project management.

(b) Explain the different types of organization set ups that are possible under functional management and project management using appropriate organization charts.

06. It is the responsibility of the project manager to make certain that risk events are monitored throughout the life of the project and that the risk response plans are carried out when necessary.

a) Name three of the most common project risks.

b) Name the four risks respond strategies.

c) What are contingency reserves used for?

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