



THE OPEN UNIVERSITY OF SRI LANKA
CERTIFICATE COURSE IN INDUSTRIAL ENVIRONMENTAL HAZARD
FINAL EXAMINATION – 2005
MPC 1201/ MPI 2201 – HEALTH AND SAFETY HAZARDS OF
INDUSTRIAL ACTIVITIES
DURATION: TWO HOURS

012

Date: 11th March 2006

Time: 9.30 a.m. – 11.30 a.m.

Please answer a total of three questions only

1. a) What are the factors that can be measured to assess whether or not the thermal environment is satisfactory for work.
b) What are the indices which have been devised to evaluate the heat stress?
c) Bad lighting at work may cause health effects to the workers. List methods of controlling bad lighting?
d) How can you control harmful effects of vibration to a person exposed to lower frequencies in the range of 0- 1000 Hz.

2. a) What is a MSDS?
b) Describe the measures that can be taken to prevent workers from chemical hazards.
c) What is TLV?

3. a) When designing a guard to a machine what are the main features to be considered?
b) What are the most common causes of accidents related to the use of hand tools?
c) List down the hazards which can take place during welding.
d) What precautions should be taken when maintaining or cleaning a high voltage electrical system?

4. a) What are the main biological agents that cause hazards in an occupational environment ?
b) Name one psychological factor that cause to reduce work performance. Briefly explain how it affects the work performance.

5. Write a short essay on "*Ways and means of achieving a safe work place*". Your answer should elaborate on the following aspects; Accidental falling of person and material, Fire and explosion, Collisions, Safe access, Safety equipment.