



SEPTEMBER 2015

WORKING ENVIRONMENT & OCCUPATIONAL HEALTH

Instructions to candidates:

- a) Time allowed: Three hours (plus an extra ten minutes' reading time at the start – do not write anything during this time)
 - b) Answer any FIVE questions
 - c) All questions carry equal marks. Marks for each question are shown in []
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- 1. Manual handling can cause a wide range of acute and chronic injuries to workers.
 - a) Explain briefly the most common injuries associated with poor manual handling. [14]
 - b) Discuss the hierarchy of measures for manual handling operations. [6]
 - 2. Under the various working time regulations and amendments, outline the basic rights and protections for most workers in an organisation. [20]
 - 3. Regulations specify that employers of an organisation must provide welfare facilities for their employees.
 - a) What is the name of this regulation? [2]
 - b) Specify what welfare facilities should be included. [10]
 - c) Explain briefly about waste materials and waste disposal under the regulations. [8]
 - 4. When working with asbestos the regulations require employers and the self-employed to prevent exposure to asbestos fibres.
 - a) Give the name of the THREE regulations that cover asbestos. [6]
 - b) Describe the THREE types of survey that can be done to cover asbestos. [11]
 - c) Name the diseases that can be caused by asbestos. [3]
 - 5. Any use of electricity has the potential to be very hazardous with possibly fatal results.
 - a) Describe the principal hazards associated with electricity. [4]
 - b) Outline briefly what abilities a competent electrical person who has technical knowledge or experience should have. [10]
 - c) Explain the term **isolation**. [6]
 - 6. Some gasses and gas appliances that can be found in the workplace may be dangerous.
 - a) Explain briefly what **carbon dioxide** is and what symptoms it can cause within the body. [12]
 - b) The Gas Appliances (Safety) Regulations cover safety standards on new gas appliances. Specify briefly what these standards are. [8]
 - 7. Discuss some of the common measures used to control the ergonomic ill health effects of whole-body vibration and hand-arm vibration. [20]
 - 8. Occupational health has to be managed within the workplace.
 - a) Give the definition of **occupational** or **work-related ill health** [6]
 - b) Risk assessments have to consider ill health as well as injuries. Explain the FOUR categories of health risks. [4]
 - c) Under the Control of Vibration at Work Regulations discuss what an employer must consider with regard to suitable health surveillance. [10]