



ICM

MARCH 2017

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. A glass roof in a factory is causing a problem with temperature, both in summer and winter.
 - a) As a temporary measure, explain what the manager might do to help his employees with the problem of high heat in the workplace. [8]
 - b) Discuss the effects that high temperatures can have on the body. [8]
 - c) Outline what the manager can do to help his employees with the problem when there are low (cold) temperatures in the workplace. [4]
 2. Driving vehicles for work can be dangerous, so safe movement of vehicles is essential.
 - a) State the regulation that covers workplace traffic movements. [4]
 - b) Outline TWO factors that could cause serious accidents between vehicles and pedestrians. [4]
 - c) Discuss the elements relating to driver training that will help prevent accidents. [12]
 3. A senior manager has to oversee asbestos work in the workplace.
 - a) State which regulation the manager has to refer to with regard to the disposal of asbestos waste. [2]
 - b) Identify the people involved in the removal of asbestos from the building. Where should it be disposed of? [6]
 - c) Describe how the manager would be expected to prepare the work area to keep people safe. [12]
 4. A health and safety manager has to assess the company's vibrating equipment and the effects on employees.
 - a) Explain the reasons why the health surveillance of employees using vibrating equipment is important. [10]
 - b) Specify THREE procedures the manager would have to check if an accident or incident happened while using vibrating equipment. [3]
 - c) Some employees that drive work transport have complained of back problems associated with whole body vibration (WBV). Discuss how this could be caused. [7]
 5. A canteen kitchen has to be risk assessed for fire regulations. Comment on what should be considered to reduce the risk of fire from cooking processes in the kitchen area. [20]
 6. Work related ill health due to their work processes and surroundings can affect any employee in the organisation.
 - a) Give the definition of the term **ergonomics** and explain what it studies. [8]
 - b) Identify the conditions of work-related upper limb disorders (WRULDs), which can affect the neck, shoulders, arms, elbows, wrists, hands and fingers. [5]
 - c) Describe what would be considered in an ergonomic risk assessment. [7]
 7. A director of a manufacturing plant that uses hazardous substances and machinery knows that the rules of COSHH mean that he has to consider the risks to the health of his employees; assessing the exposure that they might have to chemicals hazardous to their health and how they might be affected by the processes within the company. It's possible that he may need to call in professional health advisors.
 - a) Discuss what the director can do to assess the situation before he consults with health and medical specialists. [12]
 - b) Outline FOUR categories of health risks that may be found in the company and give examples of EACH. [8]

continued overleaf

8. Gas appliances and gas exposure can have fatal consequences if not handled correctly.
- a) The Gas Appliances (Safety) Regulations cover safety standards on all new gas appliances. Identify what these standards are.
 - b) Summarise what **carbon dioxide** is and the symptoms it can cause within the body.

[8]

[12]