



FRIDAY 5 SEPTEMBER 2008
2 hours, 1400 to 1600

Answer both Section 1 and Section 2. Answer **ALL** questions.

The maximum marks for each question, or part of a question, are shown in brackets.

Start the answer to each question on the correspondingly numbered page of the answer book.

Answers may be illustrated by sketches where appropriate.

This question paper must be returned to the invigilator after the examination.

SECTION 1

You are advised to spend about **half an hour** on this section, which contains **ONE** question.

- 1 (a) **Describe** the possible effects on the health of employees from exposure to excessive noise at work. (8)
- (b) **Give** reasons why personal hearing protection may not provide the level of protection stated by the manufacturer. (6)
- (c) **Outline** measures an employer can take to encourage employees to wear hearing protection. (6)
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SECTION 2

You are advised to spend about **one and a half hours** on this section, which contains **TEN** questions.

- 2 **Identify** the *physical* features of traffic routes within a workplace which are required for the safe movement of vehicles and safety of employees. (8)
- 3 **Identify FOUR** possible routes of entry of a hazardous substance into the body **AND**, in **EACH** case, **give** an example of how an employee might be at risk of such exposure. (8)

- 4 **Describe** how the following two protective measures reduce the risk of electric shock **AND**, in **EACH** case, **give** an example of how they could be used in a workplace activity. (4)
- (a) Residual Current Device (RCD). (4)
 - (b) Earthing. (4)
- 5 Other than those associated with the physical environment, **outline EIGHT** possible work-related causes of increased stress levels amongst employees. (8)
- 6 **Outline** the precautions that should be taken to reduce the risk of injury during lifting operations using a mobile crane. (8)
- 7 An employer has installed a new item of machinery. **Outline** the factors to be considered before the machine is put into use. (8)
- 8 **Identify EIGHT** ways in which a fork-lift truck may become unstable during operation. (8)
- 9 In relation to fire hazards in the workplace, **identify FOUR** different types of ignition source **AND give** an example of how **EACH** might occur. (8)
- 10 With respect to workplace exposure limits for airborne hazardous substances:
- (a) in relation to time, **identify** the two types of workplace exposure limit; (2)
 - (b) **outline TWO** purposes of workplace exposure limits; (2)
 - (c) **outline** the limitations of workplace exposure limits. (4)
- 11 **Identify** the main hazards associated with excavation work on construction sites. (8)