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# PRINCIPLES OF CONTROL

March 2022

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## Time allowed

Three hours

## Instructions

- Ensure that you pay particular attention to words in **bold**.
- Write the question number next to each answer in your answer booklet.
- You are **not** required to rewrite the question in your answer booklet.

## Information

- Different questions may carry a different number of marks.
- Marks for each question are shown in [ ].

## Advice

- Read each question carefully before you start to answer it.
- Use the full time permitted and check all your answers.

## Materials

- Notes or books are **not** permitted.
- Non-programmable calculators are permitted.



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**ANSWER ANY FIVE QUESTIONS FROM THE FOLLOWING EIGHT QUESTIONS**

1. Describe the ways in which workplace temperatures can be controlled. Use examples to support your description. [20 marks]
2. Explain the ways in which elimination and substitution are linked in the context of reducing risks. Use workplace examples to support your explanation. [20 marks]
3. (a) Describe the principal requirements of personal protective equipment (PPE). [14 marks]  
(b) Outline **three** types of respiratory protective equipment (RPE). [6 marks]
4. Describe the checklist to be used in the preparation of safe systems of work. Use examples from the construction industry to support your description. [20 marks]
5. (a) Explain the ways in which the analysis of a job affects the development of safe systems of work. [10 marks]  
(b) Design a job safety analysis form. [10 marks]
6. (a) Outline the circumstances in which a permit to work will be required. [3 marks]  
(b) Describe the responsibilities of people involved in the effective operation of permit to work systems. [17 marks]
7. (a) State **four** types of emergency. [4 marks]  
(b) Describe the supervisory duties regarding emergency arrangements. [16 marks]
8. (a) Explain the responsibility an employer has under the Health and Safety (First Aid) Regulation 1981. [4 marks]  
(b) Suggest **four** items to include in a first-aid box. [4 marks]  
(c) Outline the factors to consider regarding first aid provision in the context of significant risk. Use examples to support your answer. [12 marks]

**END OF QUESTIONS**