

Affix label with Candidate Code
Number here.
If no label, enter candidate
Number if known, or name here.
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(Supervisor's Code only)

No. 9194



Plumbers,
Gasfitters and
Drainlayers Board

CRAFTSMAN EXAMINATION, 2005 CRAFTSMAN COMMON

QUESTION AND ANSWER BOOKLET

Time allowed **THREE** hours

INSTRUCTIONS

Check that the Candidate Code Number on your admission slip is the same as the number on the label at the top of this page.

Do not start writing until you are told to do so by the Supervisor.

The pass mark for this examination is 60 marks.

Write your answers and draw your sketches in this booklet. If you need more paper, ask the Supervisor for extra sheets. Write your Candidate Code Number and the number 9194 on any extra sheets used, and attach them to this booklet. **NO SEPARATE ANSWER BOOKLET IS TO BE USED.** Write the number of extra sheets used in the box on the last page of this booklet. Write **NIL** if you have not used any.

All working in calculations must be shown.

Candidates are permitted to use the following in this examination:

Drawing instruments, approved calculator

The following are NOT permitted in the examination room:

Any publications, Acts, Regulations, Codes of Practice, or Standards

Check that this booklet has all of 15 pages in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION

QUESTION 1

(a) Describe FIVE duties **employers** have in relation to health and safety in employment.

1 _____

2 _____

3 _____

4 _____

5 _____

(5 marks)

(b) Describe the principle duties of **self-employed** people in relation to the Health and Safety in Employment Act.

(1 mark)

(c) Describe the TWO principle duties of **employees** in relation to the Health and Safety in Employment Act.

1 _____
2 _____

(2 marks)

(d) What is the **intent** of the Health and Safety in Employment Act 1992?

(1 mark)

Total 9 marks

QUESTION 2

(a) List THREE business activities that are covered by the Fair Trading Act 1986.

1 _____

2 _____

3 _____

(3 marks)

(b) List FOUR activities relevant to plumbers and gasfitters that are undertaken by the New Zealand Building Industry Authority/Department of Building and Housing.

1 _____

2 _____

3 _____

4 _____

(4 marks)

Total 7 marks

QUESTION 3

(a) List SIX duties that should be considered as non-chargeable time when running a business as a sole trader.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____

(6 marks)

(b) How does a business cover the cost of non-chargeable time?

- _____

(1 mark)

(c) List FIVE factors that should be taken into account when considering the bulk purchase of materials.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____

(5 marks)

(d) List FIVE factors that may determine the amount of stock that should be held by a plumbing and/or gasfitting business.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____

(5 marks)

QUESTION 3 (contd)

- (e) Explain the meaning of the term **depreciation** with reference to the reducing balance method.

(2 marks)

- (f) The original cost of an item of plant is \$10,000. The Inland Revenue Department has approved depreciation at 20% per year using the reducing balance method.

Calculate the book value of this item of plant after three years. Show all working for each year period.

(4 marks)

Total 23 marks

QUESTION 4

(a) List SIX **advantages** of hiring plant as opposed to ownership or purchasing.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____

(3 marks)

(b) State SIX **disadvantages** of hiring plant.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____

(3 marks)

(c) List EIGHT financial factors to be considered when buying new plant.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____

(4 marks)

QUESTION 4 (contd)

(d) List FOUR fixed costs associated with the ownership of plant.

1 _____

2 _____

3 _____

4 _____

(2 marks)

(e) What is **working life** as it relates to plant and machinery?

(1 mark)

Total 13 marks

QUESTION 5

(a) Define the term **overheads** in relation to business management.

(1 mark)

(b) List EIGHT items that are classed as **overheads**.

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

(4 marks)

(c) What is **productive time**?

(2 marks)

(d) List FOUR advantages of employing staff.

1 _____

2 _____

3 _____

4 _____

(2 marks)

QUESTION 5 (contd)

(e) List SIX additional responsibilities to be considered before employing staff.

1 _____
2 _____
3 _____
4 _____
5 _____
6 _____

(3 marks)

(f) State FIVE grounds for a personal grievance claim.

1 _____
2 _____
3 _____
4 _____
5 _____

(5 marks)

Total 17 marks

QUESTION 6

Fully describe each of the following types of contracts.

(a) Provisional measure fixed price.

(2 marks)

(b) Lump sum fixed price.

(2 marks)

(c) Charges on a "cost plus" basis.

(2 marks)

Total 6 marks

QUESTION 7

(a) In relation to common conditions of contract:

(i) Explain what is meant by a **provisional sum**

(ii) State the conditions governing expenditure of the **provisional sum**.

(iii) Explain what is meant by a **prime cost (PC) sum/net sum**.

(iv) State the conditions governing the expenditure of a **prime cost (PC) sum/net sum**.

QUESTION 7 (contd)

(v) Explain what is meant by a **contingency sum**.

(2 marks each : 10 marks)

(b) State FIVE circumstances in which the principal or his/her agent may order a variation to the contract works with regards to the appropriate New Zealand Standard for Conditions of Contract.

1

2

3

4

5

(5 marks)

(c) With regard to the appropriate New Zealand Standard for Conditions of Contract, what should a contractor have before proceeding to undertake any variation instructions?

(1 mark)

(d) Where a schedule of prices is applicable, who determines the value of any variation with regards to the appropriate New Zealand Standard for Conditions of Contract?

(1 mark)

QUESTION 7 (contd)

- (e) In a situation in which there is no applicable item in a schedule of prices, or it would be inequitable to apply the schedule of prices to a variation, how is the applicable price determined with regard to the appropriate New Zealand Standard for Conditions of Contract?

(4 marks)

Total 21 marks

QUESTION 8

List FOUR items required in an employment agreement.

(4 marks)

Total 4 marks

For Candidate's use

Number of EXTRA sheets used (write NIL if none have been used).	
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For Examiner's use only

Questions Answered	Marks
1	
2	
3	
4	
5	
6	
7	
8	
Total	