

QUESTION 1

NZS 3604;1999 is the New Zealand Standard for Timber Framed Buildings. This document outlines the construction standards for the typical New Zealand timber framed home.

(20 marks)

Define the following terms as listed in the Standard:

Baluster

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Beam

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Fascia

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Joist

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Ridge Board

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Sill

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Soffit

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String

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Top Plate

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Valley Board

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QUESTION 2

Solid fuel heaters and open fire places present certain dangers in the home when not used or maintained properly. The NZ Fire Service and other agencies have safety brochures containing safety information describing how to safely use these fires. List in detail five safety points that are contained in them e.g., use a fire guard to keep children and animals away from the fire. **(20 marks)**

- Dispose of ashes in a non-combustive container. It can take up to five days for ashes to be completely safe.
- Do not use a vacuum cleaner to pick up spilled ashes.
- Clean you chimney at least once a year. This includes metal flues on wood burner type fires.
- If possible use dry wood as wet or "green" wood will cause a build up of soot and other substances in the chimney or flue.
- Keep all matches and lighters up high, out of the sight and reach of children.
- Remember the "heater – meter rule, and do not use fire guards to dry clothes on.

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QUESTION 3

Explain the following terms in relation to combustion: **(20 marks)**

Flash Point

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Fire Point

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Ignition Temperature

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Flammability Limits

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QUESTION 4

All buildings listed in the first schedule of the Fire Safety & Evacuation of Buildings Regulations 2006 are required to have evacuation procedures in place for the building occupants in the event of a fire to evacuate to a safe place.

Plans, diagrams or notices are part of this procedure.

(20 marks)

a) List ten buildings outlined in Part 1.

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)

8)

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10)

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b) List five items that must be shown or advised on the procedure notice.

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3)

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QUESTION 5

The Fire Service investigates the cause of all of the fires it attends. From these investigations, we learn lessons about both fire and human behaviour. To undertake an accurate investigation, the process must begin from the time the appliance is despatched to the call. If a deliberate or unlawful fire is suspected there are a number of vital pieces of information that can be considered when undertaking an investigation for this type of fire.

(20 marks)

List ten reasons that an investigator may consider a fire to be deliberate or unlawful.

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