

Water Supply Systems

Indirect Hot Water System

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ESCA

Water Supply to Houses

- A cold water supply to appliances, for example:
 - Sink, shower, washing machine, dishwasher
- A hot water supply to appliances
- A hot water supply for the heating system

Design Features of a Water Supply System?

1. Leak proof Pipework
2. Means of Isolating Appliances
3. Means of Draining Pipework and Appliances
4. Overflow Mechanisms
5. Prevention of Back Pollution of Public Supply

Indirect Hot Water System

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What are its Functions?

- Hot water heating systems have two functions:
 - Water Heating (Sinks etc.)
 - Space Heating (Radiators)
- What it does:
 1. Takes cold water from the cistern in the attic
 2. Heats it
 3. Stores it in the cylinder
 4. Supplies it to appliances when demanded

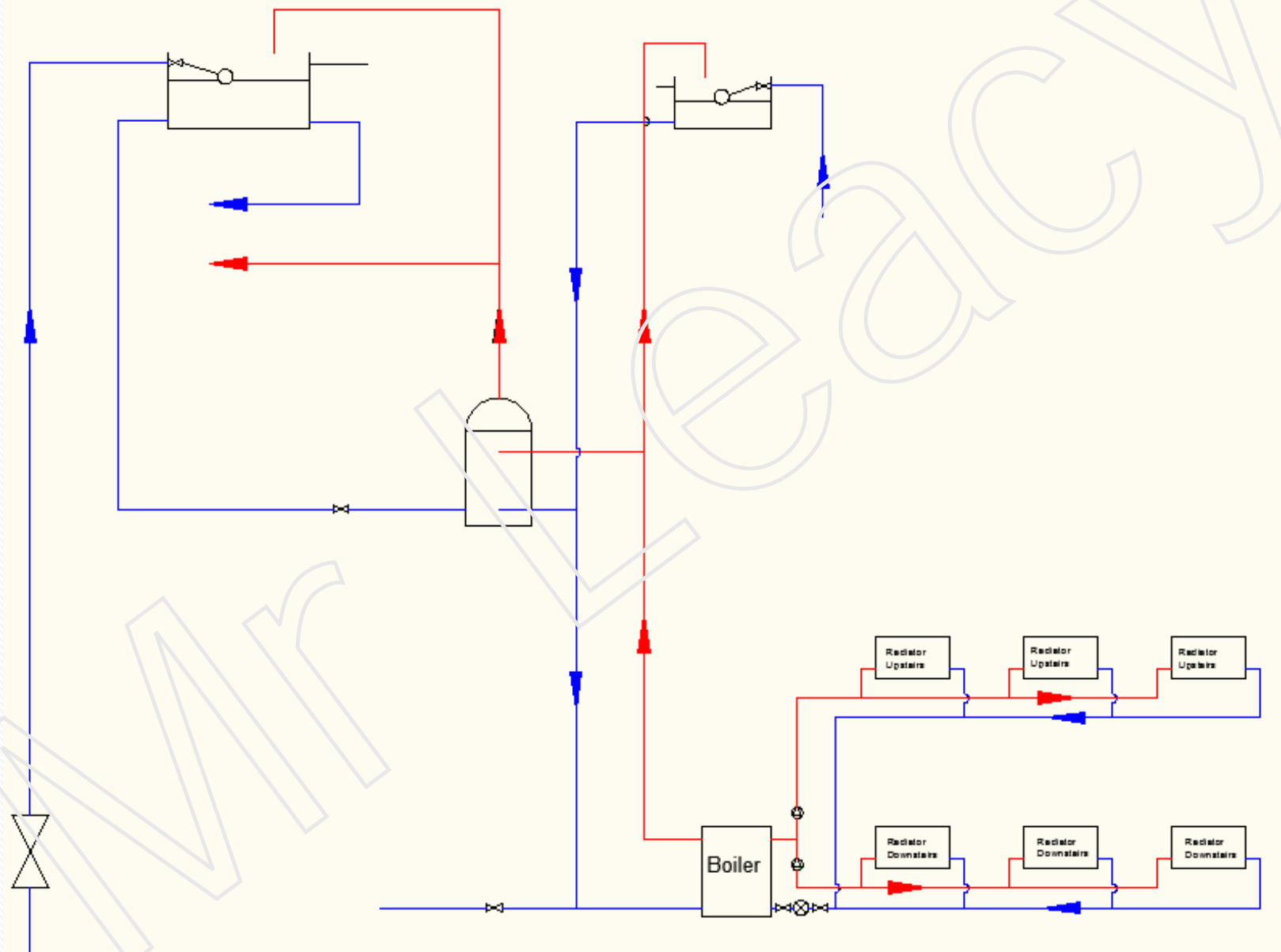
2007, Higher Level, Q.8

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*Using notes and a single-line diagram, show a typical layout of an oil-fired central heating and hot water system for a two storey dwelling house. Show **three** radiators on each floor, give typical sizes of the pipe work*

A question of this type came up in: 2001, 2003, 2004, 2007, 2008, 2009

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Radiators

