

Sample Examination Questions (to show the format only)

1. (a) Briefly explain the design requirements in Hong Kong for centralised hot water systems. Discuss the major considerations when designing hot water systems for high-rise buildings.

(10 marks)

- (b) A water tank is connected to a discharge pipe to give a water flow rate of 2 litre per second at the discharge point. If the static pressure head is 5 m and the effective length of pipe is 30 m, determine the appropriate pipe size using Thomas Box formula.

(5 marks)

Explain the meaning of water hammer and suggest measures to prevent its occurrence in water supply systems.

(5 marks)