

Question 4.

The correct selection of fire detection equipment can make a real difference in the early discovery of a fire and consequent action to save lives or to extinguish the fire.

Discuss the type of fire or smoke detection devices that you would recommend for the following situations and why :

- (1) the sleeping accommodation for a backpackers hostel (4 marks)
- (2) a large warehouse using pallets for handling goods (4 marks)
- (3) an office area which has large areas of west facing glass (4 marks)
- (4) the atrium space of a high rise building (4 marks)
- (5) wards in a nursing home. (4 marks)

Question 5.

Automatic sprinkler operation can extinguish or contain a fire in a building.

- (1) Discuss the principles of the automatic sprinkler system and the advantages that it has over systems that rely only on human actions. (10 marks)
- (2) Discuss also the precautions that need to be taken to ensure correct operation of the system if sprinklers are intended for :
 - (a) the protection of a cold storage room (5 marks)
 - (b) the protection of a valuable book storage area. (5 marks)

End of questions