



# **Fire Service Mechanical Fitter Trade Test Mock Written Test Paper**

此文件關於消防機械裝配工技能測試（大工）技術知識測試（筆試）模擬試題。如需索取此文件的中文版本，請致電 2100 9000 與香港建造業工藝測試中心聯絡。

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1. What is the minimum nominal bore of the rising main for fire hydrant in industrial/godown buildings and in other types of buildings?
  - a. 80mm, 100mm
  - b. 150mm, 100mm
  - c. 100mm, 80mm
  - d. 150mm, 80mm
  
2. Sprinkler head composed of two link plates jointed together and extends between two levers. If fires break out, the plates melt, typically 68°C, to release the levers. The valve discharges water and turns into mist. It lowers the temperature and put out fire. What is this type of sprinkler head?
  - a. Mechanical sprinkler
  - b. Chemical sprinkler
  - c. Glass tube sprinkler
  - d. Alcohol sprinkler
  
3. When installing fire sprinkler on the ceiling, which safety device should be installed to complete the installation?
  - a. Safety harness
  - b. Working platform
  - c. Wooden ladder
  - d. Scaffolding
  
4. According to Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment, what is the maximum height of the manual fire alarm call points above finished floor level?
  - a. Not more than 1000mm
  - b. Not more than 1200mm
  - c. Not more than 1300mm
  - d. Not more than 1500mm

5. According to Waterworks Regulations, what is the required difference in height between the water level and invert of the overflow pipe or warning pipe before the ball float valve installed at the inlet of a cistern shut off the water supply?
- 15mm
  - 25mm
  - 35mm
  - 55mm
6. According to Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment, if hose reels are located in recesses to which doors are fitted, the door should bear the words "FIRE HOSE REEL ( 消防喉轆 )". What is the minimum letter height?
- 30mm
  - 40mm
  - 50mm
  - 60mm
7. According to Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment, a hose reel should be install that its control valve and nozzle should be situated adjacent to each other. What is the maximum height of the hose reel above the finished floor level?
- 1250mm
  - 1350mm
  - 1450mm
  - 1550mm
8. Which of the following is the most important factor when installing water pump?
- The water pump should be painted red
  - The water pump and motor should be aligned
  - The water pump should be installed at the entrance of pump houses
  - The water pump should be located at 4 inches above ground

9. According to Technical Requirements for Plumbing Works in Buildings, which of the following type of rigid cover should be used to securely lock every storage cistern?
- Automatically operated open & close fitting
  - Automatically operated close fitting
  - Manually operated open fitting
  - Manually operated close fitting
10. Which of the following step should be done first in order to turn off the deluge system after opening the deluge valve?
- The system will shut down automatically. There is no need to do anything
  - Turn off manual release valve and return the control panel to its regular state
  - Switch off the gate valve in front of the deluge valve
  - Return the control panel to its regular state, the deluge system will then be turned off
11. Which of the following should be followed when operating an electrical threading machine?
- Take off the gloves and put on a pair of safety goggles
  - Tighten the pipes. Choose the correct threading plates and the rotational speed
  - Concentrate and operate carefully
- (i)
  - (ii)
  - (iii)
  - (i), (ii), (iii)
12. Which of the following device is monitoring the water flow inside the pipe and the functionality of the sprinkler system at each floor?
- Flow switch
  - Sprinkler alarm valve
  - Fire hydrant
  - Pressure switch

13. How large a hole should be reserved when a 4-inch diameter pipe will be passing through the slab?
  - a. 4 inches
  - b. 6 inches
  - c. 8 inches
  - d. 10 inches
  
14. Which of the following type of drawing should be reference to if a hole to be reserved on the floor for riser of sprinkler system to pass through from 12/F to upper floor?
  - a. Fire services installation drawing of 13<sup>th</sup> floor
  - b. Structural drawing of 13<sup>th</sup> floor
  - c. Fire services installation drawing of 12<sup>th</sup> floor
  - d. Structural drawing of 12<sup>th</sup> floor
  
15. According to Technical Requirements for Plumbing Works in Buildings, which of the following should be install at the outlet pipe of every water storage cistern?
  - a. Fullway gate valve(s)
  - b. Exhaust valve(s)
  - c. Fully automatic controlled valve(s)
  - d. Non-return valve(s)
  
16. According to the LPC Rules of the British Standards Institution, what should be installed on the gate valve in front of the sprinkler control valve?
  - a. Pressure switch
  - b. Solenoid valve
  - c. Monitoring switch
  - d. Non-return valve
  
17. According to Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment, which of the following is the minimum required water pressure of fire hydrant outlet?
  - a. 350 kilopascal (kPa)
  - b. 450 kilopascal (kPa)
  - c. 550 kilopascal (kPa)
  - d. 650 kilopascal (kPa)

18. Which of the following types of extinguisher are suitable to use for electrical fire in “live” electrical appliance?
- Water type and carbon dioxide gas type extinguisher
  - Carbon dioxide gas type and dry powder type extinguisher
  - Dry powder type and foam type extinguisher
  - Foam type and clean agent fire extinguisher
19. According to Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment, what is the minimum projecting length of a jet for a tubing fitted with hose reel nozzle?
- 1m long
  - 3m long
  - 6m long
  - 9m long
20. When installing CO<sub>2</sub>, FM200 or similar types of fire extinguishing systems, they should adhere to the installation standards recognised by the Director of Fire Services Department. What should be included in the aforementioned system during installation?
- Device that can only be manually operated
  - Device that can only be automatically operated
  - Composite device that can be operated both manually and automatically
  - Any device is acceptable