

Refrigeration/ Air-conditioning/ Ventilation Mechanic (Air System) Trade Test Written Test Mock Paper

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此文件關於空調製冷設備技工(送風系統)技能測試(大工)技術知識測試(筆試)模擬試題。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. According to the regulations of Fire Services Department, what are the restrictions on using soft air duct/ tube?
 - a. It should not be longer than 4m, cannot be used as main duct and cannot pass through "fire compartment"
 - b. It should not be longer than 4m
 - c. It cannot be used as main duct
 - d. It cannot pass through "fire compartment"
2. The unit in describing "Wind Pressure" in "Government Work Specification" and related construction documents is _____.
 - a. Kg
 - b. Volt
 - c. m/sec
 - d. Pa
3. The ratio of two cross sections (height and width) of a rectangular ventilation duct should not exceed 4:1 in normal circumstances. The main reason is that rectangular ventilation duct of the same cross sectional area with side ratio over 4:1 would be relatively _____.
 - a. Higher resistance to air supply
 - b. More difficult to manufacture
 - c. More difficult to install
 - d. Less aesthetic appearance
4. When a damper is fully shut in a wind tunnel, _____.
 - a. The measured air leakage must not exceed 10% when tested with the highest designed ventilation
 - b. It must have no air leakage when tested with the highest designed ventilation
 - c. It must have no light leakage when visually inspected with spotlights
 - d. The measured air leakage must not exceed 5% when tested with the highest designed ventilation
5. The minimum ratio of the turning radius of a flexible air duct/ tube to its diameter is _____.
 - a. 2 times
 - b. 3 times
 - c. 4 times
 - d. Not specified
6. When locally manufactured iron fire damper is used for floors/ ceilings, the minimum thickness of the iron plate is _____.
 - a. 5mm
 - b. 4mm
 - c. 3mm
 - d. 6mm

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7. The highest melting temperature in Degree Celsius (°C) of the fuse used in a fire damper is _____.
 - a. 69°C
 - b. 89°C
 - c. 79°C
 - d. 59°C
8. The smallest size of a boom used with two round iron nails to install a round ventilation duct with the diameter of 1m horizontally is _____.
 - a. 12mm
 - b. 8mm
 - c. 6mm
 - d. 10mm
9. The minimum dimension of the damper's "inspection passage" is _____.
 - a. 300mm x 300mm
 - b. 250mm x 250mm
 - c. 350mm x 3,250mm
 - d. 400mm x 400mm
10. The mark "FAD" on the case of ventilation duct is to show the function of ____ of that ventilation duct.
 - a. Exhaust
 - b. Return air
 - c. Air supply
 - d. Fresh air
11. A coloured mark on the case of ventilation duct can be used to define its function. If the function is "fresh air", what color should be adopted?
 - a. Green
 - b. Red
 - c. Yellow
 - d. Grey
12. A coloured mark on the case of ventilation duct can be used to define its function. If the function is "exhaust", what color should be adopted?
 - a. Green
 - b. Yellow
 - c. Red
 - d. Grey
13. Which of the following methods is used for the right cone work-piece modeling?
 - a. Radial modeling
 - b. Parallel line modeling
 - c. Image projection
 - d. Orthographic projection
14. When using a portable grinder to grind parts, one should:
 - a. Hold a fire extinguisher to put out the sparks
 - b. Add water to cool down the work piece
 - c. Increase illumination to see clearly
 - d. Use a screen to block sparks splashing

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15. Which of the following statements is not the main reason of why a flexible chute is used in the air system?
- To increase the efficiency of air supply
 - To isolate the mechanical vibration
 - To coordinate the retractability in air supply system
 - It could easily coordinate with the installation
16. The shortest net height from the ground of the air system installed at a fire escape route is _____.
- 1.8m
 - 2.4m
 - 2.7m
 - 2.1m
17. What is the minimum amount of "interest" as stated in Prevention of Bribery Ordinance?
- \$100
 - \$200
 - \$500
 - No limited amount
18. A person should be serious at work and should uphold work ethics, including:
- Appropriation of other's property
 - Craving for personal interest and neglecting the damages dealt to others
 - Accepting money and other advantages
 - Integrity, be honest and responsible, keep moral principles. Never corrupt and accept illegal advantage.
19. When lifting heavy objects, which of the following methods is correct?
- Correct posture should be used. Workers should remain upright in their back.
 - Ask for a heavier load each time to hasten the process
 - Throw the object to higher places to strengthen the body
 - Hasten the speed of work suddenly
20. What may happen if working under hot and humid environments for a long period?
- Heat stroke
 - Temporary blindness
 - Hunger
 - Anaemia

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