



CONSTRUCTION
INDUSTRY COUNCIL
建造業議會

Hand-dug Caisson Worker Skilled Trade Test Mock Written Test Paper

此文件關於手挖沉箱工工藝測試考題。如有需要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. When digging a caisson under favourable geological conditions, the depth of each section is in general:
 - (a) Under 1 m
 - (b) 1½ m
 - (c) 2 m
 - (d) 2½ m

2. Which of the following will generally be used in calibrating the position and verticality of formwork?
 - (a) Tower crane
 - (b) Tighten with screws
 - (c) Rope
 - (d) Plumb bob

3. When conducting hand-dug caisson work, there should be no:
 - (a) Disaster first-aid equipment nearby
 - (b) Safety officer inspecting nearby
 - (c) Activity of heavy machinery nearby
 - (d) Site supervisor monitoring nearby

4. The cradle supporting the electric winch (電絞轆) should be:
 - (a) Metal gantry
 - (b) Heavy duty alloy steel frame
 - (c) Secured and inspected by a competent inspecting person
 - (d) Iron trestle with anti-rust paint

5. Electric winch (電絞轆) must be operated by:
 - (a) Persons having received safety enhancement training
 - (b) Persons aged 18 and having received training
 - (c) Persons who know the specifications of electrical installations
 - (d) Direct employees of the main contractor

6. Where should the gas testing personnel be when conducting gas testing?
- (a) Directly above the manhole
 - (b) Bottom of the caisson
 - (c) Safe location
 - (d) Mid-section of the caisson
7. Workers who suspect themselves of being affected by silicon dust should:
- (a) Stop working immediately and rest at home
 - (b) Reduce working hours and do more chest expansion exercise
 - (c) Enquire a thoracic doctor as soon as possible
 - (d) Buy drugs from a pharmacy to take
8. Miscellaneous articles in the formwork must be cleared away before placing concrete so as not to:
- (a) Save manpower
 - (b) Make the articles float
 - (c) Affect the strength of the concrete
 - (d) Affect the structural strength of the formwork
9. According to the statutory requirement, an electrical winch (電絞轆) for material hoisting should be inspected within a maximum interval of:
- (a) 9 months
 - (b) 3 months
 - (c) 6 months
 - (d) 12 months

10. When there is suspicion on the air safety level, workers in the caisson should:
- (a) Continue to work carefully
 - (b) Enhance the efficiency of the ventilation system immediately and continue to work
 - (c) Continue to work and immediately notify the person-in-charge to conduct gas testing
 - (d) Evacuate immediately
11. Apart from appointing a competent person for gas testing, the contractor must also conduct:
- (a) Cost assessment
 - (b) Traffic assessment
 - (c) Report on completion of work
 - (d) Noise assessment
12. The length of a stone jaw (石夾片) for “wedging (開尖)” is usually:
- (a) 250 mm
 - (b) 300 mm
 - (c) 350 mm
 - (d) 400 mm
13. Under normal circumstances, the largest internal diameter of a hand-dug caisson is:
- (a) 1 m
 - (b) 2 m
 - (c) 3 m
 - (d) 4 m

14. The minimum internal diameter of a caisson after lining (襯砌) is:
- (a) 400 mm
 - (b) 600 mm
 - (c) 800 mm
 - (d) 1000 mm
15. When lifting or lowering the sinking bucket (吊泥桶), attention must be paid whether:
- (a) The bucket is full and overflowing
 - (b) The safety lock of the switch of the bucket is locked
 - (c) The rim of the bucket is clean and hygienic
 - (d) The size of the bucket fits the moving worker
16. The length of a drill rod for rock cutting (介石) is usually:
- (a) 400 mm
 - (b) 500 mm
 - (c) 600 mm
 - (d) 700 mm
17. Entry to caissons that have completed digging or suspended from work must be:
- (a) Covered by 9 mm plywood
 - (b) Sealed off with cement mortar
 - (c) Securely concealed by a firm covering
 - (d) Partly concealed by cast iron panel for manhole

18. The definition of work at height means the distance between the work location and the ground is:
- (a) 1 m or above
 - (b) 2 m or above
 - (c) 3 m or above
 - (d) 4 m or above
19. According to the statutory requirement, the minimum thickness of planks laid on a working platforms is:
- (a) 20mm
 - (b) 25mm
 - (c) 30mm
 - (d) 35mm
20. According to the statutory requirement, appropriate guard rails must be installed on a working platform and the height should not be less than:
- (a) 800mm
 - (b) 900mm
 - (c) 1000mm
 - (d) 1100mm