



CONSTRUCTION  
INDUSTRY COUNCIL  
建造業議會

# Drainlayer Skilled Trade Test Mock Written Test Paper

此文件關於地渠工工藝測試考題。如有需要索取此文件的中文版本，請致電 2100 9232 與工藝測試中心聯絡。

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## **Enquiries**

Enquiries on this Material may be made to the Trade Test Centre at:

95, Yue Kwong Road  
Aberdeen  
Hong Kong

Tel: (852) 2100 9232  
Fax: (852) 2100 9249  
Email: [enquiry@cic.hk](mailto:enquiry@cic.hk)  
Website: [www.cic.hk](http://www.cic.hk)

## DRAWINGS AND SKETCHES INTERPRETATION

1. According to DSD drawing, what does the following “mark” stand for ?



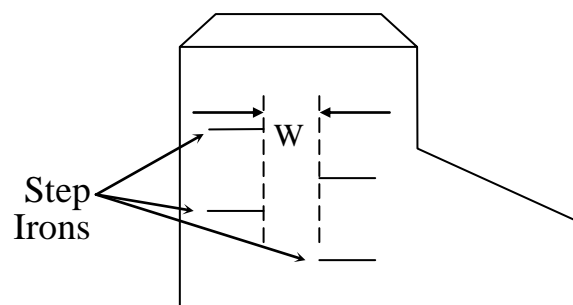
- (a) Catchment area  
(b) Location of manhole  
(c) Existing cables  
(d) Existing gas pipes
2. The length of a drainpipe from high point to low point is 35m. If fall is 1:40, what is the level difference of the pipeline from high point to low point ?
- (a) 1400mm  
(b) 875 mm  
(c) 50 mm  
(d) 4000mm
3. In drainage working drawing, “I. L.” stands for ?
- (a) Length of pipeline  
(b) Diameter of pipeline  
(c) Invert Level of pipeline  
(d) Number of pipeline

## UNDERSTANDING OF GENERAL STANDARD

4. Generally, what is the pattern arrangement of the foul drain cover ?
- (a) Cone shaped  
(b) Circle shaped  
(c) Square shaped  
(d) Rhombus shaped

5. What is the common leakage test method of pipeline other than smoke test and water test ?
- (a) X-ray
  - (b) Visual inspection
  - (c) Air test
  - (d) Sonic test
6. Gradient of fall means ?
- (a) Wave of water fall
  - (b) Scale of fall
  - (c) The high & low water level
  - (d) Capacity of manhole
7. The material used for step in manhole is usually made of ?
- (a) Timber
  - (b) Galvanized cast iron
  - (c) Fiber products
  - (d) Precast concrete products
8. One of the purposes of placing blinding concrete prior to manhole formwork erection is for ?
- (a) Storing materials
  - (b) Discharging ground water
  - (c) Setting out of required dimensions
  - (d) Avoiding feet on mud
9. According to DSD standard drawing, W should be ?

- (a) 100mm
- (b) 150mm
- (c) 200mm
- (d) 75mm



## **WORKS PROCEDURE**

10. What should be done at the pipe joints location prior to pouring surrounding concrete ?
- (a) Mark on pipe
  - (b) Paint bitumen
  - (c) Placing foam board or corkboard
  - (d) Wrapping with plastic sheet
11. What should be done for the PVC trap (gully trap) prior to pouring concrete ?
- (a) Use timber to support inner face
  - (b) Use plastic sheet to wrap the gully trap
  - (c) Paint with black paint
  - (d) Fill gully trap with water (Full)
12. What is the general method for construction of step channel ?
- (a) Precast unit
  - (b) Plastering with cement mortar
  - (c) Erect mould and then pour concrete
  - (d) Hand digging step channel shape only
13. What facility shall be constructed between the surface channel and underground manhole ?
- a) Cleaning rubbish
  - (b) Construct sand trap
  - (c) Install channel cover
  - (d) Erect steel mesh

## **MATERIALS USE AND TREATMENT**

14. What are the most appropriate tools for cutting the concrete pipe
- (a) Hand milling machine, Hammer, Chisel
  - (b) Arc weld machine
  - (c) Gas cutting machine
  - (d) All above tools
15. What is the purpose of using PVC pipe with many small holes in highway structures ?
- (a) For drainage in road base
  - (b) Treatment for foul drain
  - (c) Ventilation at manhole
  - (d) Prevent drain pipe from being blocked by sand

## **SAFETY PRECAUTIONS**

16. Which of the following statement is not required under Construction Site (Safety) Regulation ?
- (a) Enough and suitable lighting apparatus
  - (b) Site office constructed with fireproof materials
  - (c) Good condition emergency access
  - (d) Erect safety fencing to prevent falling into water
17. What happen for large-scale de-watering of underground water during trench excavation ?
- (a) Dry at adjacent well
  - (b) Dry at working area
  - (c) Settlement occur at adjacent premises  
(e.g. building, soil)

(d) Flooding at adjacent area

18. Which of the following should not be allowed to bring into a confine space area ?

- (a) Glove
- (b) Hand battery lighter (allow)
- (c) Match & gas lighter
- (d) Safety rope

19. According to the Construction Site Regulation, How many sets of oxygen, acetylene are allowed to store on site ?

- (a) 2 cylinders of Oxygen, 2 cylinders of Acetylene
- (b) 4 cylinders of Oxygen, 4 cylinders of Acetylene
- (c) 4 cylinders of Oxygen, 2 cylinders of Acetylene
- (d) 2 cylinders of Oxygen, 4 cylinders of Acetylene

20. For safety, workers should understand hand signal to communicate with plant operator during erection and transportation of drain pipes, and other materials. What is the meaning of the following hand signal shown by the signal man ?

- (a) Operate the turntable to right
- (b) Pedestrian on left
- (c) Goods put on left
- (d) Concern vehicles on left

