



CONSTRUCTION  
INDUSTRY COUNCIL  
建造業議會

# **Asphalter (Road Construction ) 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

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1. In general what test is first conducted after asphalt concrete is mixed at the manufacturing plant and before paving on site?
  - (a) Slump test
  - (b) Compressive test (抗壓力測試)
  - (c) Temperature measuring test
  - (d) Aggregate size test
  
2. According to the Hong Kong civil works construction specifications, the upper and lower limit of levelling error after completion of paving an asphalt road is:
  - (a) 6 mm
  - (b) 16 mm
  - (c) 26 mm
  - (d) 36 mm
  
3. When conducting asphalt road resurfacing maintenance works, the joint of the newly paved asphalt road and original surface should be:
  - (a) Lumpy
  - (b) Level, straight and uniform (齊口)
  - (c) In a straight line will do
  - (d) Jointed at the convenience of the worker
  
4. The function of workers spraying different numbers on a gravel (TYPE I) road formation before paving an asphalt road is:
  - (a) Date of paving
  - (b) Levelling height of the ground
  - (c) To indicate the thickness of asphalt materials during paving
  - (d) To indicate the size of the asphalt aggregate

5. During paving of asphalt concrete, how should the worker handle corners or edges which cannot be compacted by heavy machineries?
- (a) No need to bother
  - (b) Tread down with the feet
  - (c) Use tamping rammer (跳鎚) or vibrating plate (震板)
  - (d) Compact with hand tools
6. What should be done before re-paving a layer of asphalt concrete of about 50 mm thick on an old road surface?
- (a) Compact the old subgrade
  - (b) Cover the roadside gully with steel plate
  - (c) Remove the old bulging manhole cover to facilitate work
  - (d) None of the above
7. During planing/paving of asphalt concrete of about 45 mm thick, it is found that the asphalt materials often stick to the bottom plate of the machine during compacting, the worker should:
- (a) Continue to work
  - (b) Immediately stop the work
  - (c) Switch to a smaller roller
  - (d) Sprinkle and continue compacting
8. The purpose of completely compacting each layer of asphalt materials during paving asphalt concrete on a road is:
- (a) A routine to increase confidence of the proprietor
  - (b) To avoid the materials being flushed away by rain
  - (c) To expel all the air in the asphalt materials
  - (d) All of the above

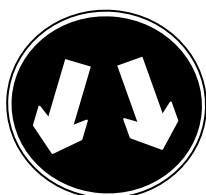
9. Which of the following modes is generally adopted in paving of an asphalt road on a ramp?
- (a) From top down
  - (b) From bottom up
  - (c) Start from the middle
  - (d) Let the worker decide
10. What should be done when the asphalt concrete arrived at the site and the temperature of the material is lower than 80°C?
- (a) Pave immediately to avoid trouble
  - (b) Inform the person-in-charge of the work
  - (c) Instruct the driver to dump as waste material
  - (d) Let the worker decide
11. The purpose of one or two workers walking and working on both sides of the paving machine (鋪面機) apart from the driver is:
- (a) To monitor the work of the workers
  - (b) To instruct workers not to get close to the machine
  - (c) To control height of material delivery (落料高低) and road width
  - (d) None of the above

12. Please pick the meaning of the road sign below:



- (a) Beware of pedestrians
- (b) Pedestrians crossing
- (c) Road excavation work
- (d) Pedestrians crossing with hand truck

13. Please pick the meaning of the road sign below:



- (a) Two way traffic
- (b) Road closed ahead
- (c) Pass through in a straight line
- (d) Drive pass on both sides of the temporary obstacle

14. Please pick the meaning of the road sign below:



- (a) Hillock ahead
- (b) Object blocking ahead
- (c) Railway passing ahead
- (d) Lumpy road surface ahead

15. Asphalt cement is composed of coarse aggregate, fine aggregate and:

- (a) Cement
- (b) Synthetic resin
- (c) Road tar
- (d) Strong plastic paste (強力膠料油)

16. What material should be sprayed between each layer of asphalt concrete during paving?

- (a) Diesel fuel
- (b) Accelerating admixture (快乾藥水)
- (c) Cement mortar
- (d) Road tar (cold tar)

17. Roads built with asphalt concrete are commonly called as:

- (a) Rigid pavement
- (b) Soft pavement
- (c) Acoustic pavement (防音路面)
- (d) Flexible pavement

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. The emergency response when a foreign body enters the eyes is:
- (a) Rub and press the eyes with back of the hand
  - (b) Immediately wear goggles
  - (c) Flush the eyes with water
  - (d) Close the eyes and shout for help
20. What hand tool should be used for general paving of asphalt concrete to avoid injury to the waist?
- (a) Short-handle shovel
  - (b) Long-handle shovel
  - (c) Buggy
  - (d) 5-tine rake (五齒耙)