



CONSTRUCTION  
INDUSTRY COUNCIL  
建造業議會

# Metal Worker Trade Test Mock Written Test Paper

此文件關於金屬工工藝測試考題。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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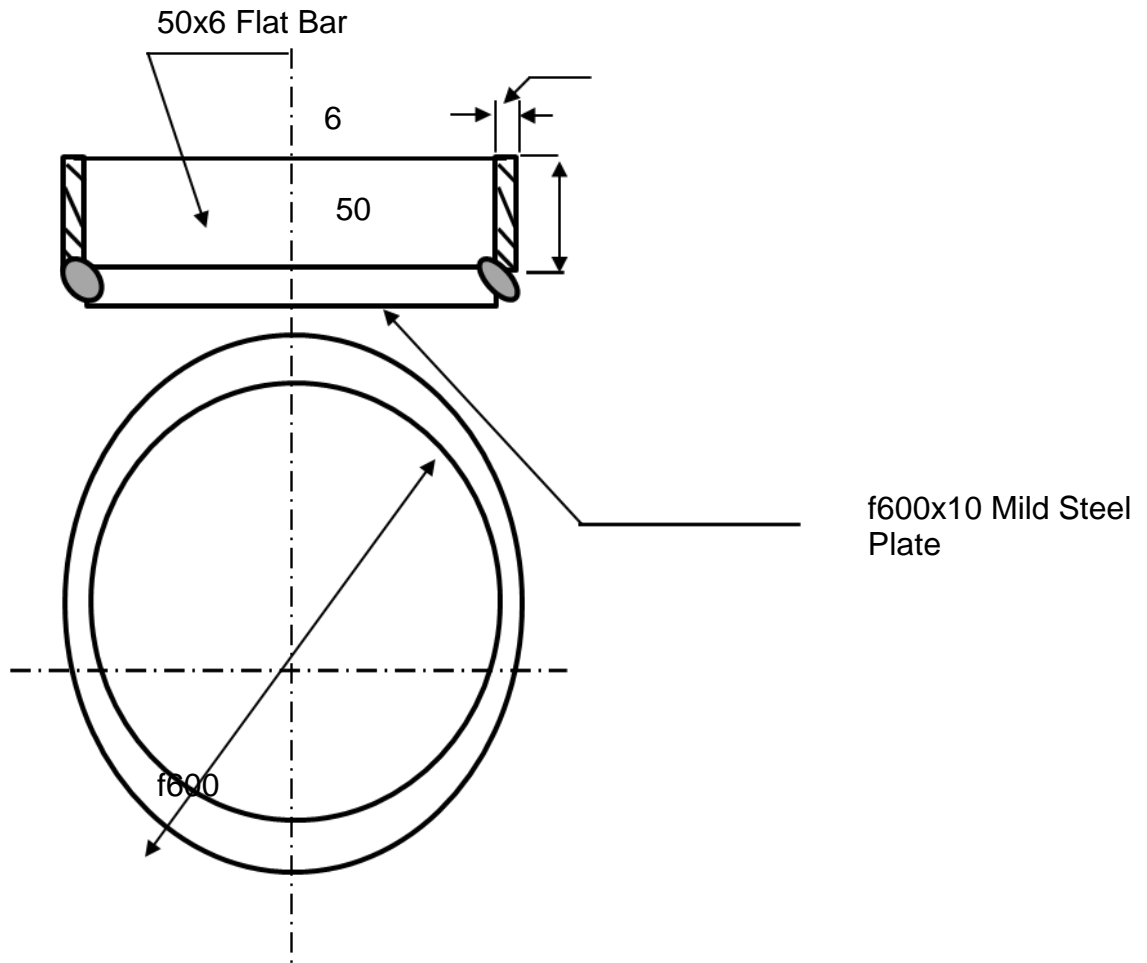
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1. What is the main purpose of using H-beam in building construction ?
  - (a) easy to handle
  - (b) easy to erect
  - (c) easy to purchase
  - (d) acquire higher strength with less quantity of material
  
2. What is the colour of pure copper ?
  - (a) yellow
  - (b) sorrel
  - (c) blue
  - (d) green
  
3. The welding position of structure steel should :
  - (a) be in flat position whenever possible
  - (b) be in any position
  - (c) not be in overhead position without approval
  - (d) both (a) & (c)
  
4. After shear cutting a mild steel plate, the deformation (if any) should be :
  - (a) ignored
  - (b) minimized after welding
  - (c) made good
  - (d) both (a) & (b)

5. Which of the following personal protection equipment should be used when working at high level?
- (a) safety belt / harness
  - (b) climbing shoes
  - (c) cotton gloves
  - (d) safety goggles
6. The drawing method of the development of a work piece with circular top and square base is :
- (a) parallel lines
  - (b) triangular lines
  - (c) radial lines
  - (d) (a) & (c)
7. Which of the metal below has good properties in ductility, elongation, forging and weldability.
- (a) cast iron
  - (b) wrought iron
  - (c) brass
  - (d) carbon steel

8. The welding method for stainless steel thin sheets should be :
- (a) resistance welding
  - (b) shield metal arc welding
  - (c) MIG
  - (d) TIG
9. What safety precaution should be carried out in welding area ?
- (a) place warning board
  - (b) place warning board & partitions to avoid strong light
  - (c) all peoples in welding area should wear safety goggles
  - (d) store oxygen cylinder
10. Which is the proper treatment to the slag found on the kerf face & bottom after gas cutting ?
- (a) no treatment
  - (b) clean and remove slag
  - (c) painting on the slag
  - (d) both (a) & (c)

11. The circumference of the circular flat bar shall be calculated as :

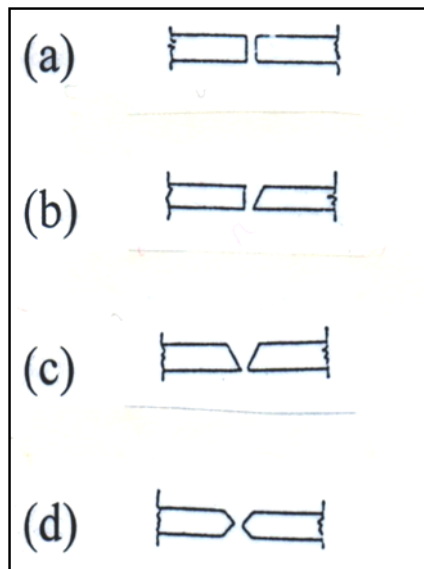


- (a)  $612 \times 3.1416$
- (b)  $600 \times 3.1416$
- (c)  $606 \times 3.1416$
- (d)  $590 \times 3.1416$

12. The classification of steel hammer is :

- (a) by the size of the head
- (b) by the weight of the head
- (c) by the length of the handle
- (d) by the material of the handle

13. Referring to the following figure, which one is the best shape for a 25mm thick butt weld joint ?

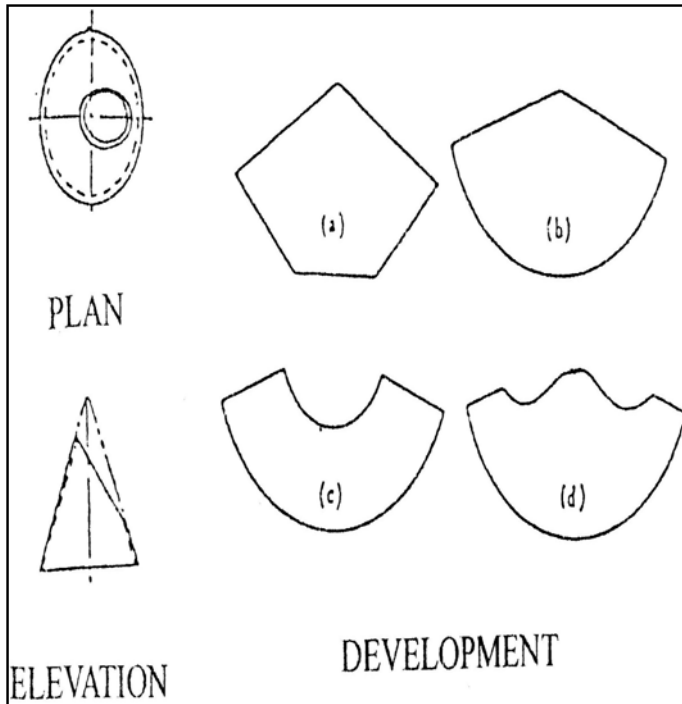


- (a)
- (b)
- (c)
- (d)

14. Which of the follow is a proper handling method to a acetylene gas cylinder during use, transportation and storage :

- (a) kept upright
- (b) kept horizontal
- (c) kept inclined
- (d) roll the gas hose on the cylinder

15. Identify the development which corresponds to the plan & elevation.



- (a)
- (b)
- (c)
- (d)

16. Which of the following metals can be cut by oxygen-acetylene ?

- (a) copper
- (b) aluminium
- (c) stainless steel
- (d) mild steel



17. The proper working procedure for the fabrication of a cat ladder shall be :
- A Install the cat ladder fixedly
  - B Mark out the position of holes according to the drawing
  - C Understand the working site and preparation work
  - D Install the anchor bolts after drilling
- (a) B,C,A,D
- (b) C,B,D,A
- (c) C,B,A,D
- (d) B,C,A,D
18. Which of the following heat treatment will raise the hardness, strength and abrasiveness of carbon steel.
- (a) annealing
  - (b) quenching
  - (c) normalizing
  - (d) tempering
19. Generally, as strength increases for carbon steels, the ductility:
- (a) increases
  - (b) stays the same
  - (c) decreases
  - (d) is not related to strength

20. What tools are used for marking out on metal ?

- (a) dividers
- (b) center punch
- (c) scribe or oddleg calipers
- (d) All of the above