

Duration: 30 Mins

Total Marks: 11

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1. What does the letter Y stands in the formula $d = Y \cdot 2 (s+r)$ in taper measurement?

- A) Diameter over rollers at small end
B) Distance from the centre of the roller to the end of the component
C) Diameter over rollers at big end
D) Radius of the roller

Answer: A) Diameter over rollers at small end

2. How many precision rollers required for measuring angle of tapered component?

- A) 1
B) 4
C) 2
D) 3

Answer: C) 2

3. Which is a non-metallic tool material?

- A) Carbide
B) Stellite
C) Diamonds
D) High carbon steel

Answer: C) Diamonds

4. Which one is example of ferrous tool material?

- A) Carbide tool
B) Diamonds
C) High carbon steel
D) Stellite

Answer: C) High carbon steel

5. What is the recommended feed rate for turning cast iron (grey) using H.S.S tool?

- A) 0.08-0.03 mm/rev
B) 0.15-0.7 mm/rev
C) 0.2-1.00 mm/rev
D) 0.2-1.5 mm/rev

Answer: B) 0.15-0.7 mm/rev

6. Which cutting tools have highest cutting efficiency?

- A) Carbide
B) High carbon steel
C) High speed steel
D) Mild steel

Answer: A) Carbide

7. What is the recommended cutting speed for turning mild steel using H.S.S tool?

- A) 35-70 m/min
B) 40-70 m/min
C) 25-40 m/min
D) 35-50 m/min

Answer: D) 35-50 m/min

8. What is the recommended cutting speed for aluminium using H.S.S tool?

- A) 50 m/min - 80 m/min
B) 70 m/min - 100 m/min
C) 25 m/min - 40 m/min
D) 35 m/min - 50 m/min

Answer: B) 70 m/min - 100 m/min

9. Which material is used to make radius gauge?

- A) Cast steel
B) Stainless steel
C) Hardened steel
D) Tool steel

Answer: C) Hardened steel

10. Which one is chief constituent of ferrous tool material?

- A) Tungsten
B) Iron
C) Vanadium
D) Carbon

Answer: B) Iron

11. How the cutting speed is expressed?

- A) Meter/min
B) Meter/sec
C) Foot/min
D) Revolution/min

Answer: A) Meter/min