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**Score: 22/38 (57.89%)**

**Code: 6371**

**1. Which material is used to make radius gauge?**

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

**2. What is the name of gauge used to check the radius**

- A) Radius gauge (Correct)**      B) Fillet gauge  
C) Plug gauge                      D) Feeler gauge

### 3. Which cutting tools have highest cutting efficiency?

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

**4. Which is the cheapest tool material?**

- A) High carbon steel**      B) High speed steel  
C) Carbide (Incorrect)      D) Diamonds

**5. Which is a non-metallic tool material?**

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

**6. Which one is chief constituent of ferrous tool material?**

- A) Iron (Correct)**      B) Tungsten  
C) Vanadium      D) Carbon

**7. Which one is example of ferrous tool material?**

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

**8.** What is the value of tool life index for a cemented carbide tip to machine cast iron component?

- A) 0.1** B) 0.125  
C) 0.2 (Incorrect) D) 0.128

**9. What is the tool life index of cemented carbide tool for turning high carbon high chromium die steel?**

- A) 0.15 (Correct)**      B) 0.2  
C) 0.4      D) 0.35

**10.** What does the letter Y stands in the formula  $d = \frac{Y}{2(s+r)}$  in taper measurement?

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

**11.** What does the letter 's' stands in the equation  $d = Y - 2(s + r)$  in taper measurement?

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

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

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

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

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

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

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

**15.** How the cutting speed is expressed?

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

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

- A) 70 m/min - 100 m/min (Correct)**

**17.** How much percentage of cutting speed could be increased by using super HSS tools?

- A) 5% to 10% (Incorrect)      B) 10% to 15%
- C) 15% to 20%**                      D) 20% to 25%

18. Which gauge is to be selected for checking the corner radius of the job?

- A) **Radius gauge**                      B) Fillet gauge  
C) Feeler gauge (Incorrect)      D) Plug gauge

19. Where the follower is fixed to produce from turning?

- A) Tool part (Incorrect)              B) Top slide  
C) **Cross slide**                      D) Tail stook

20. Which gauge is used to check the radius formed at the steps of component?

- A) **Fillet gauge**                      B) Radius gauge (Incorrect)  
C) Feeler gauge                      D) Plug gauge

21. What is the term the distance moved by the tool along the work for each revolution?

- A) Speed (Incorrect)                  B) **Feed**  
C) Cutting speed                      D) Depth

22. What are the possible surface that can be produced by form turning?

- A) **To generating concave and convex profile**      B) To generating cylindrical surface (Incorrect)  
C) To generate conical surface              D) To generate flat surface

23. Which type of tool is suitable to produce form surface in mass production activities?

- A) **Using carbide tipped form tool**                      B) High carbon steel tool  
C) High speed steel cutting tool              D) Using single point cutting tool (Incorrect)

24. What factor is important in free hand form turning?

- A) Unskilled labour                      B) **Skilled labour (Correct)**  
C) Sharp tool                              D) High speed

25. Which type of jig is used to hold thin and soft parts?

- A) Plat jig                                  B) Channel jig  
C) **Sandwich jig (Correct)**              D) Trunnion jig

26. Which type of jig is used for large awkward shaped piece part is to drilled in many directions?

- A) Plate jig                                  B) Post jig  
C) Table jig (Incorrect)                  D) **Trunnion jig**

27. Which is the device that can hold, locate and guide the tool?

- A) **Jig (Correct)**                              B) Fixture  
C) Chuck                                      D) Collet chuck

28. What is the advantage of jig?

- A) It holds the job                      B) Hold and locate the work  
C) **Hold, locate and guide the tool**              D) Cost is very low (Incorrect)

29. What is the special benefit of using a fixture?

- A) Slower rate of production      B) Skilled worker required  
C) **Faster rate of production (Correct)**      D) Suitable for small bach production

30. Which gauge is used to position the cutter before cutting in milling fixture?

- A) **Feeler gauge**                      B) Radius gauge  
C) Fillet gauge (Incorrect)              D) Screw pitch gauge

31. Calculated the rpm of spindle if cutting speed ?V? is 120m/min and the diameter ?D? of the job is 50 mm?

- A) 500 rpm                                  B) **764 rpm (Correct)**  
C) 856 rpm                                  D) 975 rpm

32. Calculate the spindle speed to turn a 40mm dia M.S rod using a cemented carbide tool it cutting speed is 92mm/min?

- A) 508 rpm                                  B) 685 rpm  
C) **731 rpm (Correct)**                      D) 950 rpm

33. Calculate the length of metal passing by cutting tool in one revolution if the diameter of work is 75mm and cutting speed is 120m/min.

- A) **235.5 mm (Correct)**                      B) 295.7 mm  
C) 365.3 mm                                  D) 485.7 mm

34. Find out the R.P.M of spindle for a 50mm bar (D) and cutting speed is 25m/min.

- A) 100rpm                                  B) **159rpm (Correct)**  
C) 168rpm                                  D) 250rpm

35. Which type of jig locates the piece part from its face?

- A) Plate jig                                  B) Post jig (Incorrect)  
C) **Table jig**                                  D) Solid jig

36. What defect may occur during grinding a form tool cutting edge?

- A) Form tool getting broken (Incorrect)      B) **Shape of the form gets altered**  
C) Clearance angle changed              D) Thickness of the tool reduced

37. What will happen to the tool life if the spindle is running higher speed?

- A) **Less (Correct)**                              B) More

C) Medium

D) Very less

**A) Reduce the tool life**

B) Better finish

C) Accurate dimension

D) Normal tool life

(Incorrect)

38. What is the effect, if the cutting speed is more than the recommended?