

Duration: 60 Mins

Total Marks: 40

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1. Which is a non-metallic tool material?

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

Answer: C) Diamonds

2. Which one belongs to team work?

- A) Hard skill B) Knowledge
C) Soft skill D) Technical skill

Answer: C) Soft skill

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

- A) 0.4 B) 0.2
C) 0.35 D) 0.15

Answer: D) 0.15

4. Which one is the golden hours related to first aid?

- A) First 30 minutes B) First 15 minutes
C) First 20 minutes D) First 45 minutes

Answer: A) First 30 minutes

5. Which is the internal part of a bench vice?

- A) Box nut B) Movable jaw
C) Handle D) Fixed jaw

Answer: A) Box nut

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

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

Answer: A) To generating concave and convex profile

7. Which gas is used in Halon extinguisher?

- A) Hydrogen B) Carbon monoxide
C) Carbon tetrachloride D) Carbon dioxide

Answer: C) Carbon tetrachloride

8. Which one is example of ferrous tool material?

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

Answer: B) High carbon steel

9. Which is the cheapest tool material?

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

Answer: A) High carbon steel

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

- A) 0.1 B) 0.2
C) 0.128 D) 0.125

Answer: A) 0.1

11. How the cutting speed is expressed?

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

Answer: D) Meter/min

12. What is the standard colour code used for identifying the bin for the metal waste material?

- A) Red B) Blue
C) Violet D) Green

Answer: A) Red

13. What is the name of gauge used to check the radius

- A) Radius gauge B) Fillet gauge
C) Plug gauge D) Feeler gauge

Answer: A) Radius gauge

14. What is the correct sequence of the operation of a simple fire extinguisher?

- A) Aim pull sweep and squeeze B) Sweep Aim pull and squeeze
C) Pull, Aim squeeze & sweep D) Squeeze aim pull and sweep

Answer: C) Pull, Aim squeeze & sweep

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

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

Answer: B) 0.15-0.7 mm/rev

16. What is the specification for shape of file?

- A) Cut B) Cross section
C) Length D) Grades

Answer: B) Cross section

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

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

Answer: A) 15% to 20%

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

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

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

19. What is the normal lip clearance angle for standard drill?

- A) 13 Degree - 16 Degree
- B) 2 Degree- 4 Degree
- C) 5 Degree - 7 Degree
- D) 8 Degree - 12 Degree

Answer: D) 8 Degree - 12 Degree

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

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

Answer: A) Diameter over rollers at small end

21. What is the drill point angle for drilling brass?

- A) 130 Degree
- B) 120 Degree
- C) 118 Degree
- D) 140 Degree

Answer: C) 118 Degree

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

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

Answer: B) Distance from the centre of the roller to the end of the component

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

- A) Depth
- B) Speed
- C) Cutting speed
- D) Feed

Answer: D) Feed

24. What is the body material of bench vice?

- A) Mild steel
- B) Cast iron
- C) Wrought iron
- D) Hardened steel

Answer: B) Cast iron

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

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

Answer: B) Using carbide tipped form tool

26. Which angle is preventing the cutting edge from rubbing action?

- A) Point angle
- B) Clearance angle
- C) Web angle
- D) Rake angle

Answer: B) Clearance angle

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

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

Answer: C) Iron

28. Which angle determines the rake angle at the cutting edge of twist drill?

- A) Wedge angle
- B) Clearance angle
- C) Point angle
- D) Helix angle

Answer: D) Helix angle

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

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

Answer: C) Cross slide

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

- A) Fillet gauge
- B) Feeler gauge
- C) Radius gauge
- D) Plug gauge

Answer: C) Radius gauge

31. Which one is the cause for hazard in personal safety?

- A) Buttons fastened
- B) Safety boots
- C) Sleeve tightly rolled
- D) Long hair

Answer: D) Long hair

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

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

Answer: A) 2

33. Which material is used to make radius gauge?

- A) Stainless steel
- B) Tool steel

C) Cast steel D) Hardened steel

Answer: D) Hardened steel

34. Which safety practice refers, Do not wear the ring?

A) Road safety B) Machine safety
C) Personal safety D) General safety

Answer: C) Personal safety

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

A) Radius gauge B) Feeler gauge
C) Fillet gauge D) Plug gauge

Answer: C) Fillet gauge

36. What is the material of files?

A) Low alloy steel B) High carbon steel
C) Cast iron D) Mild steel

Answer: B) High carbon steel

37. Which victim has given CPR immediately?

A) Severe blood loss B) Severe head injury

C) Difficulty in breathing D) Dehydration

Answer: C) Difficulty in breathing

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

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

Answer: D) 35-50 m/min

39. Which cutting tools have highest cutting efficiency?

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

Answer: B) Carbide

40. What is the expanded form of ABC in first aid?

A) Aspiration, blood and B) Aspiration, breathing and
circulation circulation
C) Airway, blood and D) Airway, breathing and
circulation circulation

Answer: D) Airway, breathing and circulation
