

Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

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

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

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

6. Which cutting tools have highest cutting efficiency?

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

7. What is the material of files?

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

8. What is the body material of bench vice?

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

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

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

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

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

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

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

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

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

13. Which material is used to make radius gauge?

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

14. How the cutting speed is expressed?

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

15. Which is a non-metallic tool material?

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

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

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

17. 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) Radius of the roller
D) Distance from the centre of the roller to the end of the component

18. Which gauge is to be selected for checking the corner

radius of the job?

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

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

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

20. Which gas is used in Halon extinguisher?

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

21. 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

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

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

23. Which one belongs to team work?

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

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

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

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

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

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

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

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

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

28. 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) Using single point cutting tool
- D) High carbon steel tool

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

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

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

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

31. Which victim has given CPR immediately?

- A) Severe blood loss
- B) Severe head injury
- C) Dehydration
- D) Difficulty in breathing

32. Which is the cheapest tool material?

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

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

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

34. What is the specification for shape of file?

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

35. Where the follower is fixed to produce form turning?

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

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

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

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

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

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

- A) Machine safety
- C) General safety

- B) Personal safety
- D) Road safety

39. Which one is example of ferrous tool material?

- A) High carbon steel
- C) Diamonds

- B) Stellite
- D) Carbide tool

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

- A) 10% to 15%
- C) 5% to 10%

- B) 20% to 25%
- D) 15% to 20%