

Duration: 60 Mins

Total Marks: 52

Q.ID: ITISKILL7786GV

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

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

Answer: A) 118 Degree

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

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

Answer: B) Red

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

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

Answer: B) To generating concave and convex profile

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

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

Answer: C) Shape of the form gets altered

5. Which one belongs to team work?

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

Answer: A) Soft skill

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

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

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

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

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

Answer: C) Skilled labour

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

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

Answer: C) 0.1

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

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

Answer: C) First 30 minutes

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

- A) Better finish B) Accurate dimension
C) Reduce the tool life D) Normal tool life

Answer: C) Reduce the tool life

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

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

Answer: D) Airway, breathing and circulation

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

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

Answer: C) Helix angle

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

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

Answer: B) Radius gauge

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

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

Answer: B) 35-50 m/min

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

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

Answer: D) 8 Degree - 12 Degree

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

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

Answer: A) Long hair

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

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

Answer: D) Fillet gauge

18. Which cutting tools have highest cutting efficiency?

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

Answer: B) Carbide

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

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

Answer: B) Radius gauge

20. Which is a non-metallic tool material?

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

Answer: D) Diamonds

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

- A) 950 rpm
- B) 508 rpm
- C) 685 rpm
- D) 731 rpm

Answer: D) 731 rpm

22. 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) 485.7 mm
- B) 365.3 mm
- C) 295.7 mm
- D) 235.5 mm

Answer: D) 235.5 mm

23. Which material is used to make radius gauge?

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

Answer: C) Hardened steel

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

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

Answer: C) Feed

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

- A) Collet chuck
- B) Jig
- C) Fixture
- D) Chuck

Answer: B) Jig

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

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

Answer: C) Diameter over rollers at small end

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

- A) Plate jig
- B) Solid jig
- C) Post jig
- D) Table jig

Answer: D) Table jig

28. 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) Distance from the centre of the roller to the end of the component
- D) Radius of the rollers component

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

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

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

Answer: D) Iron

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

- A) Post jig
- B) Trunnion jig
- C) Table jig
- D) Plate jig

Answer: B) Trunnion jig

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

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

Answer: A) 0.15

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

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

Answer: B) Using carbide tipped form tool

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

- A) Channel jig
- B) Sandwich jig
- C) Trunnion jig
- D) Plat jig

Answer: B) Sandwich jig

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

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

Answer: D) Personal safety

35. What is the advantage of jig?

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

Answer: C) Hold, locate and guide the tool

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

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

Answer: B) Clearance angle

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

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

Answer: C) Pull, Aim squeeze & sweep

38. 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) 0.15-0.7 mm/rev
- D) 0.2-1.00 mm/rev

Answer: C) 0.15-0.7 mm/rev

39. What is the material of files?

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

Answer: C) High carbon steel

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

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

Answer: A) Feeler gauge

41. Which victim has given CPR immediately?

- A) Severe blood loss
- B) Difficulty in breathing

- C) Severe head injury
- D) Dehydration

Answer: B) Difficulty in breathing

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

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

Answer: D) Cross slide

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

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

Answer: C) 15% to 20%

44. Which is the cheapest tool material?

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

Answer: D) High carbon steel

45. Which one is example of ferrous tool material?

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

Answer: D) High carbon steel

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

- A) 500 rpm
- B) 975 rpm
- C) 764 rpm
- D) 856 rpm

Answer: C) 764 rpm

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

- A) Very less
- B) More
- C) Less
- D) Medium

Answer: C) Less

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

- A) Slower rate of production
- B) Skilled worker required
- C) Faster rate of production
- D) Suitable for small batch production

Answer: C) Faster rate of production

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

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

Answer: D) 2

50. Which gas is used in Halon extinguisher?

- A) Carbon monoxide
- B) Carbon dioxide

C) Hydrogen

D) Carbon tetrachloride

Answer: D) Carbon tetrachloride

51. How the cutting speed is expressed?

A) Meter/sec

B) Foot/min

C) Meter/min

D) Revoluation/min

Answer: C) Meter/min

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

A) 100rpm

B) 159rpm

C) 250rpm

D) 168rpm

Answer: B) 159rpm