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Score: 19/40 (47.50%)

Code: 5103

1. Which material is used to make radius gauge?

- A) Cast steel (Incorrect) B) Tool steel
C) **Hardened steel** 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 D) Diamonds (Incorrect)

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** B) Carbide tool (Incorrect)
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 (Correct)** B) 0.125
C) 0.2 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** B) 0.2 (Incorrect)
C) 0.4 D) 0.35

10. What does the letter Y stands in the formula $d = Y \sqrt{2(s+r)}$ 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 (Incorrect)

11. What does the letter 's' stands in the equation $d = Y \sqrt{2(s+r)}$ in taper measurement?

- A) Diameter over the roller at large end B) Diameter over the rollers at small end

D) **Distance from the centre of the roller to the end of the component (Correct)**

C) Radius of the rollers

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

- A) 1 (Incorrect) B) **2**
C) 3 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 (Incorrect) D) **0.15-0.7 mm/rev**

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** B) 50 m/min - 80 m/min
C) 35 m/min - 50 m/min (Incorrect) D) 25 m/min - 40 m/min

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

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

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

- A) Radius gauge (Correct)** B) Fillet gauge
C) Feeler gauge D) Plug gauge
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19. Where the follower is fixed to produce from turning?
A) Tool part B) Top slide
C) Cross slide (Correct) D) Tail stock
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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
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21. What is the term the distance moved by the tool along the work for each revolution?
A) Speed **B) Feed (Correct)**
C) Cutting speed D) Depth
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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
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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)
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24. What is the expanded form of ABC in first aid?
A) Airway, blood and circulation (Incorrect) B) Aspiration, blood and circulation
C) Airway, breathing and circulation D) Aspiration, breathing and circulation
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25. What is the standard colour code used for identifying the bin for the metal waste material?
A) Red (Correct) B) Blue
C) Green D) Violet
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26. Which safety practice refers, Do not wear the ring?
A) Road safety B) General safety
C) Machine safety **D) Personal safety (Correct)**
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27. Which one belongs to team work?
A) Soft skill B) Hard skill
C) Knowledge D) Technical skill (Incorrect)

28. Which gas is used in Halon extinguisher?
A) Hydrogen B) Carbon dioxide
C) Carbon monoxide (Incorrect) **D) Carbon tetrachloride**
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29. Which one is the golden hours related to first aid?
A) First 15 minutes B) First 20 minutes
C) First 30 minutes (Correct) D) First 45 minutes
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30. Which one is the cause for hazard in personal safety?
A) Long hair B) Safety boots
C) Buttons fastened (Incorrect) D) Sleeve tightly rolled
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31. What is the correct sequence of the operation of a simple fire extinguisher?
A) Pull, Aim squeeze & sweep (Correct) B) Aim pull sweep and squeeze
C) Squeeze aim pull and sweep D) Sweep Aim pull and squeeze
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32. Which victim has given CPR immediately?
A) Difficulty in breathing (Correct) B) Severe head injury
C) Severe blood loss D) Dehydration
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33. Which angle is preventing the cutting edge from rubbing action?
A) Web angle B) Rake angle
C) Clearance angle (Correct) D) Point angle
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34. What is the drill point angle for drilling brass?
A) 140 Degree B) 130 Degree
C) 120 Degree **D) 118 Degree (Correct)**
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35. What is the normal lip clearance angle for standard drill?
A) 2 Degree- 4 Degree B) 5 Degree - 7 Degree (Incorrect)
C) 8 Degree - 12 Degree D) 13 Degree - 16 Degree
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36. Which angle determines the rake angle at the cutting edge of twist drill?
A) Wedge angle (Incorrect) **B) Helix angle**
C) Point angle D) Clearance angle
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37. What is the material of files?
A) Cast iron (Incorrect) B) Mild steel
C) Low alloy steel **D) High carbon steel**

38. What is the specification for shape of file?

- A) Cut
- B) Grades
- C) Length (Incorrect)
- D) Cross section**

39. What is the body material of bench vice?

- A) Cast iron**
- B) Mild steel

C) Wrought iron

D) Hardened steel (Incorrect)

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

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