

# govt ITI HN PURA

## ITI Quiz - 21-Feb-2026 11:18 AM

Q. ID: ITISKILL7650TU | February 2026

100.00% 38 / 38

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|--------------|-----------|-----------------|----------|
| Student Name | Jeevan gs | Access Code     | 8004     |
| Attempt No.  | #1        | Completion Time | 12:08 PM |
| Rank         | #3        | Total Questions | 38       |

38 SCORE

38 MAX MARKS

38 CORRECT

0 INCORRECT

### Answer Review

Q1 **CORRECT** Which material is used to make radius gauge?

A. Cast steel

B. Tool steel

C. Hardened steel ☒

D. Stainless steel

Q2 **CORRECT** What is the name of gauge used to check the radius

A. Radius gauge ☒

B. Fillet gauge

C. Plug gauge

D. Feeler gauge

**Q3** **CORRECT** Which cutting tools have highest cutting efficiency?

- A. Mild steel
- B. High carbon steel
- C. High speed steel
- D. Carbide ☒

**Q4** **CORRECT** Which is the cheapest tool material?

- A. High carbon steel ☒
- B. High speed steel
- C. Carbide
- D. Diamonds

**Q5** **CORRECT** Which is a non-metallic tool material?

- A. High carbon steel
- B. Diamonds ☒
- C. Stellite
- D. Carbide

**Q6** **CORRECT** Which one is chief constituent of ferrous tool material?

- A. Iron ☒
- B. Tungsten
- C. Vanadium
- D. Carbon

**Q7** **CORRECT** Which one is example of ferrous tool material?

**A.** High carbon steel ☒

**B.** Carbide tool

**C.** Stellite

**D.** Diamonds

**Q8** **CORRECT** 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

**D.** 0.128

**Q9** **CORRECT** What is the tool life index of cemented carbide tool for turning high carbon high chromium die steel?

**A.** 0.15 ☒

**B.** 0.2

**C.** 0.4

**D.** 0.35

**Q10** **CORRECT** 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

**Q11** **CORRECT** 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 ☒

**Q12** **CORRECT** How many precision rollers required for measuring angle of tapered component?

- A. 1
- B. 2 ☒
- C. 3
- D. 4

**Q13** **CORRECT** 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 ☒

**Q14** **CORRECT** 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 ☒

**Q15** **CORRECT** How the cutting speed is expressed?

- A. Foot/min
- B. Meter/sec
- C. Meter/min ☒
- D. Revolution/min

**Q16** **CORRECT** 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
- D. 25 m/min - 40 m/min

**Q17** **CORRECT** 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% ☒
- D. 20% to 25%

**Q18** **CORRECT** Which gauge is to be selected for checking the corner radius of the job?

- A. Radius gauge ☒
- B. Fillet gauge
- C. Feeler gauge
- D. Plug gauge

**Q19** **CORRECT** Where the follower is fixed to produce from turning?

A. Tool part

B. Top slide

C. Cross slide ☒

D. Tail stook

**Q20** **CORRECT** 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

**Q21** **CORRECT** What is the term the distance moved by the tool along the work for each revolution?

A. Speed

B. Feed ☒

C. Cutting speed

D. Depth

**Q22** **CORRECT** What are the possible surface that can be produced by form turning?

A. To generating concave and convex profile ☒

B. To generating cylindrical surface

C. To generate conical surface

D. To generate flat surface

**Q23** **CORRECT** 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

**Q24** **CORRECT** What factor is important in free hand form turning?

**A.** Unskilled labour

**B.** Skilled labour ☐

**C.** Sharp tool

**D.** High speed

**Q25** **CORRECT** Which type of jig is used to hold thin and soft parts?

**A.** Plat jig

**B.** Channel jig

**C.** Sandwich jig ☐

**D.** Trunnion jig

**Q26** **CORRECT** 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

**D.** Trunnion jig ☐

**Q27** **CORRECT** Which is the device that can hold, locate and guide the tool?

**A.** Jig ☒

**B.** Fixture

**C.** Chuck

**D.** Collet chuck

**Q28** **CORRECT** 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

**Q29** **CORRECT** 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

**Q30** **CORRECT** 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

**Q31** **CORRECT** 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 ☒

C. 856 rpm

D. 975 rpm

**Q32** **CORRECT** Calculate the spindle speed to turn a 40mm dia M.S rod using a cemented carbide tool if cutting speed is 92mm/min?

A. 508 rpm

B. 685 rpm

C. 731 rpm ☒

D. 950 rpm

**Q33** **CORRECT** 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 ☒

B. 295.7 mm

C. 365.3 mm

D. 485.7 mm

**Q34** **CORRECT** Find out the R.P.M of spindle for a 50mm bar (D) and cutting speed is 25m/min.

A. 100rpm

B. 159rpm ☒

C. 168rpm

D. 250rpm

**Q35** **CORRECT** Which type of jig locates the piece part from its face?

A. Plate jig

B. Post jig

C. Table jig ☒

D. Solid jig

**Q36** **CORRECT** What defect may occur during grinding a form tool cutting edge?

A. Form tool getting broken

B. Shape of the form gets altered ☒

C. Clearance angle changed

D. Thickness of the tool reduced

**Q37** **CORRECT** What will happen to the tool life if the spindle is running higher speed?

A. Less ☒

B. More

C. Medium

D. Very less

**Q38** **CORRECT** What is the effect, if the cutting speed is more than the recommended?

A. Reduce the tool life ☒

B. Better finish

C. Accurate dimension

D. Normal tool life