

# Monthly test

Q. ID: ITISKILL2321WC

March 2026

Government ITI MULBAGAL

Question Paper

Duration: 30 Mins

Total Marks: 25

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Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

1. How to measure the diameter of the small end of a external taper precisely?

- A) Sine bar
- B) Screw gauge
- C) Precision roller with slip gauge
- D) Vernier calipers

- A) 1 Degree
- B) 1 Degree
- C) 1 Degree
- D) 5 Degree

2. Calculate the least count of V.B.P if 23 div on main scale is divided into 12 equal parts

- A) 1 Degree - 50 Degree
- B) 100 Degree
- C) 5 Degree
- D) 28 Degree

10. Calculate the least count of V.B.P if 23 div on main scale is divided into 12 scale divisions

- A) 2 minutes
- B) 4 minutes
- C) 5 minutes
- D) 3 minutes

3. Which welding method is more suitable for joining dissimilar metals readily?

- A) Tig welding
- B) Braze welding
- C) Gas welding
- D) Arc welding

11. Which one is the disadvantage of using tail stock offset method?

- A) Taper length is limited
- B) Taper turning is possible when work held between centre only
- C) External threads on taper can't produce
- D) Only hand feed can be given

4. Which instrument can measure angle upto an accuracy of 5 minutes?

- A) Combination set
- B) Bevel gauge
- C) Angle gauge
- D) Vernier bevel protractor

12. Which material is used for making the head of soldering iron?

- A) Stainless steel
- B) Forged aluminium
- C) Forged steel
- D) Forged copper

5. Convert 8 Degree 44 minutes into minutes?

- A) 524
- B) 424
- C) 428
- D) 536

13. Which is the smallest unit of angular measurement?

- A) Minutes
- B) Degree
- C) Seconds
- D) Radian

6. Why the ball centre is preferred in tail stock offset method?

- A) For accurate setting
- B) For good surface finish
- C) For provide power feed
- D) To avoid damage to the centre drilled hole of the job

14. Which one is the disadvantage of taper turning by compound slide method?

- A) Steep taper cannot be produced
- B) Only external taper can be turned
- C) Damages the centre drilled holes of the work
- D) Taper length is limited to the movement of the top slide

7. Which is the welding process, if base metal and filler is melted to form the joint?

- A) By tig welding
- B) By braze welding
- C) By gas welding
- D) By arc welding

15. How is the filler material distributed in the joint in braze welding?

- A) By fission
- B) By capillary action
- C) By splashing
- D) By fusion

8. Which part of the lathe is locked while the form tool method is used for turning taper?

- A) Carriage
- B) Head stock
- C) Compound rest
- D) Tail stock

16. Calculate the amount of off-set if total length of job = 80 mm and  $\tan = 5$  Degree 45 minutes?

- A) 7 mm
- B) 10 mm
- C) 12 mm
- D) 8 mm

9. What is the accuracy of the protractor head of a combination set?

17. What is the main disadvantage of a braze welded joints?

- A) Heavy distortion due to heat
- B) It take more time for repairing
- C) Dissimilar metals can be joined
- D) The joint not suitable for thicker sections

18. Which method is preferred for producing small length taper with least accuracy?

- A) Form tool method
- B) Tail stock offset method
- C) Taper turning attachment method
- D) Compound slide method

19. Select a suitable instrument for measuring angles?

- A) Vernier height gauge
- B) Calipers
- C) Vernier caliper
- D) Vernier bevel protractor

20. Which is the advantage of taper turning by compound slide method?

- A) Long taper can be produced
- B) Steep taper can be produced
- C) Most suitable for duplicate taper work
- D) Thread on taper portion can be produced

21. Which part of the combination set is used for measuring the angles?

- A) Protractor head
- B) Square head
- C) Rule
- D) Centre head

22. What is the purpose of the beveled edges of the rule in a vernier bevel protractor?

- A) Checking parallelism
- B) Checking squireness
- C) Checking 45 Degree and 60 Degree
- D) Checking flatness

23. What is the isolating medium to prevent rapid cooling after brazing a tipped tool?

- A) Wet sand
- B) Water
- C) Mica powder
- D) Oil

24. What is the use of a sine bar?

- A) To measure the gap
- B) To determine the angle of tapered job
- C) To measure the diameter of the job
- D) To measure the length of a taper job

25. Which method of brazing is commonly used to braze of carbide tip on a shank?

- A) Torch brazing
- B) Arc brazing
- C) Furnace brazing
- D) Induction brazing