

July 2026

GOVT ITI HOLENARSIPURA

Question Paper

Duration: 90 Mins

Total Marks: 31

ID: ITISKILL2481VM

Student Name: _____

Roll No: _____

1. What should be the heights of gauge block to be built to check the work angle of 30 Degree using 150 mm sine bar?

- A) 75
C) 291.26
B) 145.63
D) 38.62

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

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

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

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

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

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

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

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

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

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

7. Which part is pivoted to the disc of vernier bevel protractor?

- A) Blade
C) Dial
B) Disc
D) Stock

8. Convert 8 Degree 44 minutes into minutes?

- A) 424
B) 524

C) 536

D) 428

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

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

10. What is the use of a sine bar?

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

11. Which method is used for turning steep taper?

- A) Taper turning attachment
C) Form tool
B) Compound slide swivel
D) Offset tail stock

12. How is the 'length of sine bars' specified?

- A) Distance between the centres of the rollers
C) Length of datum surface
B) Total length of the sine bar
D) Length of the rollers

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

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

14. Which material is used for making nozzle for gas welding?

- A) Copper
C) Bronze
B) High carbon steel
D) Mild steel

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

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

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

- A) Most suitable for duplicate taper work
B) Steep taper can be produced

C) Long taper can be produced	D) Thread on taper portion can be produced	24. Which part of the lathe is locked while the form tool method is used for turning taper?	A) Carriage	B) Tail stock
17. How many seconds is 1 Degree?	A) 36000% C) 6000%	C) Head stock	D) Compound rest	
	B) 360000% D) 3600000%	25. What is the isolating medium to prevent rapid cooling after brazing a tipped tool?	A) Wet sand	B) Mica powder
18. Which welding method is more suitable for joining dissimilar metals readily?	A) Arc welding	C) Water	D) Oil	
	B) Braze welding	26. Calculate the amount of off-set if total length of job = 80 mm and $\tan = 5$ Degree 45 minutes?	A) 10 mm	B) 8 mm
	C) Gas welding		C) 7 mm	D) 12 mm
	D) Tig welding	27. Which is the smallest unit of angular measurement?	A) Degree	B) Minutes
19. What is the main disadvantage of a braze welded joints?	A) The joint not suitable for thicker sections	C) Seconds	D) Radian	
	B) Heavy distortion due to heat	28. Which instrument can measure angle upto an accuracy of 5 minutes?	A) Combination set	B) Angle gauge
	C) It take more time for repairing		C) Bevel gauge	D) Vernier bevel protractor
	D) Dissimilar metals can be joined	29. Why the ball centre is preferred in tail stock offset method?	A) For good surface finish	B) To avoid damage to the centre drilled hole of the job
20. Which material is used for making the head of soldering iron?	A) Forged steel		C) For provide power feed	D) For accurate setting
	B) Stainless steel	30. Which method of brazing is commonly used to braze of carbide tip on a shank?	A) Arc brazing	B) Torch brazing
	C) Forged aluminium		C) Induction brazing	D) Furnace brazing
	D) Forged copper	31. What is the purpose of the beveled edges of the rule in a vernier bevel protractor?	A) Checking squireness	B) Checking 45 Degree and 60 Degree
21. Which method is preferred for producing small length taper with least accuracy?	A) Tail stock offset method		C) Checking flatness	D) Checking parallelism
	B) Taper turning attachment method			
	C) Compound slide method			
	D) Form tool method			
22. Which one is the disadvantage of taper turning by compound slide method?	A) Steep taper cannot be produced			
	B) Damages the centre drilled holes of the work			
	C) Taper length is limited to the movement of the top slide			
	D) Only external taper can be turned			
23. Select a suitable instrument for measuring angles?	A) Vernier caliper			
	B) Vernier bevel protractor			
	C) Calipers			
	D) Vernier height gauge			