

# Monthly Test workshop calculation and science February 2026

Q. ID: ITISKILL50494V

February 2026

GOVT ITI VITTLA

Answer Key

Duration: 30 Mins

Total Marks: 10

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1. Which is thermo plastic material?

- A) Nylon
- B) Butyl rubber
- C) Vinyl polymers
- D) Neoprene

**Answer: C) Vinyl polymers**

2. What is the ratio between stress and strain?

- A) Yield point
- B) Youngs Modulus
- C) Poisson's ratio
- D) Factor of safety

**Answer: B) Youngs Modulus**

3. What is the term used for maximum stress attained by a material before rupture?

- A) Compressive stress
- B) Tensile stress
- C) Working stress
- D) Ultimate stress

**Answer: D) Ultimate stress**

4. Which is elastic material?

- A) Celluloid
- B) Nylon
- C) Polystyrenes
- D) Polycarbonates

**Answer: B) Nylon**

5. Which law states that within elastic limit stress is directly proportional to strain?

- A) Charles law
- B) Hooks law
- C) Newtons law
- D) Joules law

**Answer: B) Hooks law**

6. What is the ratio of shear stress to shear strain?

- A) Bulk modulus
- B) Modulus of elasticity
- C) Yield point
- D) Modulus of rigidity

**Answer: D) Modulus of rigidity**

7. What is the ratio between the change in dimension to its original dimension of the substance?

- A) Strain
- B) Factor of safety
- C) Stress
- D) Poisson's ratio

**Answer: A) Strain**

8. Which one is the ratio of stress?

- A) Load and area
- B) Load and time
- C) Load and diameter
- D) Load and direction

**Answer: A) Load and area**

9. Which force acts on rivets?

- A) Tensile force
- B) Shear force
- C) Compressive force
- D) Bending force

**Answer: B) Shear force**

10. What is the unit of strain?

- A)  $\text{Kg/cm}^2$
- B) No unit
- C) Metre
- D)  $\text{Newton/metre}^2$

**Answer: B) No unit**