

## ITI Quiz - 01-May-2026 09:19 PM

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Student Name	ssasasasasas	Access Code	5757
Attempt No.	#6	Completion Time	09:34 PM
Rank	#2	Total Questions	25

25 SCORE

25 MAX MARKS

25 CORRECT

0 INCORRECT

### Answer Review

Q1 **CORRECT** Which is elastic material?

A. Nylon

B. Polystyrenes

C. Celluloid

D. Polycarbonates

Q2 **CORRECT** Which is thermo plastic material?

A. Butyl rubber

B. Nylon

C. Neoprene

D. Vinyl polymers

Q3 **CORRECT** What is the maximum percentage of stretch of its original length is allowable for elastic materials?

A. 100%

B. 200%

C. 300%

D. 400%

Q4 **CORRECT** What is the ratio between the change in dimension to its original dimension of the substance?

A. Stress

B. Strain

C. Poisson's ratio

D. Factor of safety

Q5 **CORRECT** What is the unit of strain?

A.  $\text{Kg/cm}^2$

B.  $\text{Newton/metre}^2$

C. Metre

D. No unit

Q6 **CORRECT** What is the ratio of change in length to original length?

A. Linear strain

B. Lateral strain

C. Volumetric strain

D. Poisson's ratio

Q7 **CORRECT** What is the ratio between lateral strain and longitudinal strain?

A. Hooks law

B. Young's modulus

C. Bulk modulus

D. Poisson's ratio

Q8 CORRECT Which symbol is used to express change in length?

A. L

B.  $\Delta l$

C. l

D. e

Q9 CORRECT Which one is the ratio of stress?

A. Load and area

B. Load and direction

C. Load and diameter

D. Load and time

Q10 CORRECT Which force acts on rivets?

A. Tensile force

B. Compressive force

C. Shear force

D. Bending force

Q11 CORRECT What is the formula for bulk modulus?

A. Tensile stress/Tensile strain

B. Compressive stress/Compressive strain

C. Volumetric stress/Volumetric strain

D. Shear stress/Shear strain

Q12 **CORRECT** Which law states that within elastic limit stress is directly proportional to strain?

A. Newtons law

B. Hooks law

C. Joules law

D. Charles law

Q13 **CORRECT** What is the term used for maximum stress attained by a material before rupture?

A. Tensile stress

B. Compressive stress

C. Working stress

D. Ultimate stress

Q14 **CORRECT** What is the ratio between ultimate stress to working stress?

A. Bulk modulus

B. Young's modulus

C. Factor of safety

D. Modulus of rigidity

Q15 **CORRECT** What is the ratio of ultimate load to area of original cross section?

A. Factor of safety

B. Yield point

C. Ultimate stress

D. Youngs modulus

Q16 **CORRECT** What is the ratio of shear stress to shear strain?

A. Modulus of elasticity

B. Modulus of rigidity

C. Bulk modulus

D. Yield point

Q17 **CORRECT** What is the ratio between stress and strain?

A. Yield point

B. Factor of safety

C. Youngs Modulus

D. Poisson's ratio

Q18 **CORRECT** Which force acts on crank shaft?

A. Shear stress

B. Torsional stress

C. Tensile stress

D. Compressive stress

Q19 **CORRECT** Which is thermosetting plastic?

A. Vinyl polymers

B. Polystyrenes

C. Celluloid

D. Melamine resins

**Q20** **CORRECT** What force will be required to punch a hole of 10 mm dia in a 1 mm thick plate, if the allowable shear stress is  $50\text{N/mm}^2$ ? ( $\pi = 22/7$ )

A. 1757 N

B. 1575 N

C. 1571.4 N

D. 1577 N

**Q21** **CORRECT** What is the tensile stress if a square rod of 10 mm side is tested for a tensile load of 1000 kg?

A.  $1\text{ kg/mm}^2$

B.  $10\text{ kg/mm}^2$

C.  $100\text{ kg/mm}^2$

D.  $1000\text{ kg/mm}^2$

**Q22** **CORRECT** What is the tensile strain if a force of 3.2 kN is applied to a bar of original length 2800 mm extends the bar by 0.5 mm?

A. 0.0001786

B. 0.0001687

C. 0.0001867

D. 0.0001968

**Q23** **CORRECT** How much strain is developed in an iron rod of 1 metre length gets elongated by 1 cm, if a force of 100 kg is applied at one end?

A. 0.1

B. 0.01

C. 0.001

D. 0.0001

**Q24** **CORRECT** What is the young's modulus if a wire of 2m long, 0.8 mm<sup>2</sup> in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

A. 1.25 kg/mm<sup>2</sup>

B. 12.5 kg /mm<sup>2</sup>

C. 125 kg/mm<sup>2</sup>

D. 12500 kg/mm<sup>2</sup>

**Q25** **CORRECT** What is the safe stress if the ultimate stress of a material is 35 kg/mm<sup>2</sup> and factor of safety is 5?

A. 0.143

B. 0.7

C. 1.43

D. 7