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Student Name	Shubham	Access Code	3546
Attempt No.	#1	Completion Time	10:33 AM
Rank	#10	Total Questions	25

18 SCORE

25 MAX MARKS

18 CORRECT

7 INCORRECT

Answer Review

Q1 **CORRECT** Which is elastic material?

A. Nylon ☐

B. Polystyrenes ☐

C. Celluloid ☐

D. Polycarbonates ☐

Q2 **INCORRECT** 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. Kg/cm^2

B. Newton/metre^2

C. Metre

D. No unit ☒

Q6 **INCORRECT** 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. Δl ☒
- 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** 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 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 kg/mm^2

B. 10 kg/mm^2 ☒

C. 100 kg/mm^2

D. 1000 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 youngs modulus if a wire of 2m long, 0.8 mm² in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

A. 1.25 kg/mm²

B. 12.5 kg /mm²

C. 125 kg/mm²

D. 12500 kg/mm² ☒

Q25 **CORRECT** What is the safe stress if the ultimate stress of a material is 35 kg/mm² and factor of safety is 5?

A. 0.143

B. 0.7

C. 1.43

D. 7 ☒