Trinity, College udhyavara udupi

ITI Quiz W/C- 04-Apr-2026 9:30AM

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68.00% 34 / 50

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Attempt No.	#1	Completion Time	11:31 AM
Rank	#10	Total Questions	50

34 SCORE	**50** MAX MARKS	**34** CORRECT	**16** INCORRECT

Answer Review

Q1 INCORRECT Which affects the centre of gravity of the object?

A. Weight
B. Mass
C. Density
D. Shape

Q2 CORRECT What is the name of the point at which all the weight of the body concentrated?

A. Initial point
B. Centre of gravity
C. Centroid
D. Central point

Q3 INCORRECT Where the centre of gravity of a circle lies?

A. At its centre

B. Any where on its radius

C. Any where on its circumference

D. Any where on its diameter

Q4 CORRECT What is the centre of gravity of a right circular cone from its base?

A. h/2

B. h/3

C. h/4

D. h/5

Q5 CORRECT What is the centre of gravity of a rectangular body?

A. Longer side of rectangle

B. Shorter side of rectangle

C. At the point of intersection of its diagonals

D. At the corners

Q6 CORRECT What is the centre of gravity of a solid hemisphere from its base?

A. 4r/5

B. 3r/8

C. 3r/4

D. r/2

Q7 CORRECT What is the centre of gravity of a sphere?

A. At the centre

B. On the circumference

C. At the diameter

D. At the radius

Q8 INCORRECT Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable

D. Horizontal

Q9 INCORRECT Which one of the following geometrical shapes centre of gravity lies from its base is 1/3 of its height?

A. Square

B. Rhombus

C. Triangle

D. Cone

Q10 INCORRECT Which state of equilibrium's example is, A cone resting on its base?

A. Un-stable

B. Neutral

C. Stable

D. Bothe A and B

Q11 CORRECT Which is elastic material?

A. Nylon ☐

B. Polystyrenes

C. Celluloid

D. Polycarbonates

Q12 CORRECT Which is thermo plastic material?

A. Butyl rubber

B. Nylon

C. Neoprene

D. Vinyl polymers ☐

Q13 INCORRECT What is the maximum percentage of stretch of its original length is allowable for elastic materials?

A. 100% ☐

B. 200%

C. 300% ☐

D. 400%

Q14 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

Q15 CORRECT What is the unit of strain?

A. Kg/cm²

B. Newton/metre²

C. Metre

D. No unit

Q16 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

Q17 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

Q18 CORRECT Which symbol is used to express change in length?

A. L

B. delta l

C. l

D. e

Q19 CORRECT Which one is the ratio of stress?

A. Load and area ☐

B. Load and direction

C. Load and diameter

D. Load and time

Q20 CORRECT Which force acts on rivets?

A. Tensile force

B. Compressive force

C. Shear force ☐

D. Bending force

Q21 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

Q22 INCORRECT 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

Q23 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

Q24 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

Q25 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

Q26 INCORRECT What is the ratio of shear stress to shear strain?

A. Modulus of elasticity

B. Modulus of rigidity

C. Bulk modulus

D. Yield point

Q27 CORRECT What is the ratio between stress and strain?

A. Yield point

B. Factor of safety

C. Youngs Modulus

D. Poisson's ratio

Q28 INCORRECT Which force acts on crank shaft?

A. Shear stress

B. Torsional stress

C. Tensile stress

D. Compressive stress

Q29 CORRECT Which is thermosetting plastic?

A. Vinyl polymers

B. Polystyrenes

C. Celluloid

D. Melamine resins

Q30 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 50N/mm²? (Pi = 22/7)

A. 1757 N

B. 1575 N

C. 1571.4 N

D. 1577 N

Q31 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/mm²

B. 10 kg /mm² □

C. 100 kg/mm²

D. 1000 kg/mm²

Q32 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

Q33 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

Q34 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 □

Q35 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

Q36 CORRECT What is a under estimate?

A. No work started as per estimate

B. An estimate perfectly matches with actual

C. An estimate is fell short of the actual estimate

D. An estimate is exceeded the actual estimate

Q37 CORRECT What is the main factor to be considered while preparing a detailed estimate?

A. Shape of material

B. Brand of the materials

C. Quantity, availability and transportation of materials

D. Location of material

Q38 CORRECT Which authority publishes schedule of rates?

A. Individual

B. Corporate

C. Partnership firm

D. Government department

Q39 INCORRECT Which IE rules are to be verified on completion of wiring on any new installation?

A. IE Rules, 1956 □

B. IE Rules, 1960

C. IE Rules, 1961 □

D. IE Rules, 1967

Q40 CORRECT What is the total labour charges for a particular wiring work completed in 2 days by one electrician and one helper.(Electrician @ ?800/day and helper @ Rs 400/day)

A. Rs. 2000

B. Rs. 2400 □

C. Rs. 3000

D. Rs. 1400

Q41 INCORRECT Which affects the centre of gravity of the object

A. Weight

B. Mass □

C. Density

D. Shape □

Q42 CORRECT What is the name of the point at which all the weight of the body concentrated?

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Q43 CORRECT Where the centre of gravity of a circle lies?

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Q44 CORRECT What is the centre of gravity of a right circular cone from its base?

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B. h/3

C. h/4 ✓

D. h/5

Q45 INCORRECT What is the centre of gravity of a rectangular body?

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B. Shorter side of rectangle

C. At the point of intersection of its diagonals ✓

D. At the corners ✗

Q46 INCORRECT What is the centre of gravity of a solid hemisphere from its base?

A. 4r/5 ✗

B. 3r/8 ✓

C. 3r/4

D. r/2

Q47 INCORRECT What is the centre of gravity of a sphere?

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C. At the diameter

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Q48 CORRECT Which state of equilibrium's example is A cone resting on its tip?

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D. Horizontal

Q49 CORRECT Which one of the following geometrical shape's centre of gravity lies from its base is 1/3 of its height?

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Q50 CORRECT Which state of equilibrium's example is, A cone resting on its base?

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C. Stable

D. Bothe A and B