

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

Q. ID: ITISKILL2173N7

April 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 155 Mins

Total Marks: 50

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Student Name: _____ Roll No: _____

1. What is the name of the point at which all the weight of the body concentrated?

- A) Centre of gravity B) Central point
C) Initial point D) Centroid

2. Which state of equilibrium's example is A cone resting on its tip?

- A) Stable B) Neutral
C) Unstable D) Horizontal

3. What is the centre of gravity of a right circular cone from its base?

- A) $h/5$ B) $h/2$
C) $h/4$ D) $h/3$

4. 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. 1400 D) Rs. 3000

5. What is the centre of gravity of a solid hemisphere from its base?

- A) $r/2$ B) $4r/5$
C) $3r/4$ D) $3r/8$

6. Which authority publishes schedule of rates?

- A) Government department B) Corporate
C) Partnership firm D) Individual

7. Which IE rules are to be verified on completion of wiring on any new installation?

- A) IE Rules, 1960 B) IE Rules, 1967
C) IE Rules, 1961 D) IE Rules, 1956

8. What is the ratio between stress and strain?

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

9. Which one is the ratio of stress?

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

10. Which is thermosetting plastic?

- A) Vinyl polymers B) Celluloid
C) Melamine resins D) Polystyrenes

11. What is the centre of gravity of a solid hemisphere from its base?

- A) $r/2$ B) $3r/8$
C) $3r/4$ D) $4r/5$

12. What is the maximum percentage of stretch of its original length is allowable for elastic materials?

- A) 300% B) 200%
C) 400% D) 100%

13. 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) 125 kg/mm²
C) 12.5 kg/mm² D) 12500 kg/mm²

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

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

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

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

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

- A) Rhombus B) Triangle
C) Square D) Cone

17. Which state of equilibrium's example is, A cone resting on

38. What is the formula for bulk modulus?

- A) Shear stress/Shear strain B) Tensile stress/Tensile strain
C) Compressive stress/Compressive strain D) Volumetric stress/Volumetric strain

39. 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

40. What is the ratio of ultimate load to area of original cross section?

- A) Young's modulus B) Factor of safety
C) Ultimate stress D) Yield point

41. What is the unit of strain?

- A) Newton/metre² B) Metre
C) No unit D) Kg/cm²

42. 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) 100 kg/mm²
C) 1000 kg/mm² D) 10 kg/mm²

43. What is the centre of gravity of a rectangular body?

- A) Longer side of rectangle B) At the corners
C) Shorter side of rectangle D) At the point of intersection of its diagonals

44. What is the ratio between ultimate stress to working stress?

- A) Factor of safety B) Modulus of rigidity
C) Young's modulus D) Bulk modulus

45. 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) 0.001
C) 0.0001 D) 0.01

46. What is the centre of gravity of a rectangular body?

- A) At the point of intersection of its diagonals B) Longer side of rectangle
C) At the corners D) Shorter side of rectangle

47. What is the main factor to be considered while preparing a detailed estimate?

- A) Location of material B) Quantity, availability and transportation of materials
C) Shape of material D) Brand of the materials

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

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

49. Which is elastic material?

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

50. Which force acts on rivets?

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