

ITI Quiz WC- 20-Jun-2026 10:34 AM

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Attempt No.	#1	Completion Time	11:45 AM
Rank	#2	Total Questions	50

19 SCORE

50 MAX MARKS

19 CORRECT

31 INCORRECT

Answer Review

Q1 **INCORRECT** 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 ☐

Q2 **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 ☐

Q3 **INCORRECT** 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 ☐

Q4 **INCORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable ☐

B. Neutral

C. Unstable ☐

D. Horizontal

Q5 **CORRECT** What is the centre of gravity of a semi circle of diameter 12 cm?

A. 2.24 cm

B. 2.54 cm ☐

C. 3.25 cm

D. 2.75 cm

Q6 **INCORRECT** Which is elastic material?

A. Nylon ☐

B. Polystyrenes

C. Celluloid ☐

D. Polycarbonates

Q7 **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%

Q8 **INCORRECT** 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

Q9 **CORRECT** What is the unit of strain?

A. Kg/cm^2

B. Newton/metre^2

C. Metre

D. No unit ☒

Q10 **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 ☒

Q11 **CORRECT** Which symbol is used to express change in length?

A. L

B. Δl ☒

C. l

D. e

Q12 **INCORRECT** Which one is the ratio of stress?

A. Load and area ☐

B. Load and direction

C. Load and diameter ☐

D. Load and time

Q13 **INCORRECT** 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 ☐

Q14 **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 ☐

Q15 **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

Q16 **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 ☐

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

A. Yield point ☐

B. Factor of safety ☐

C. Young's Modulus ☒

D. Poisson's ratio ☐

Q18 **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 ☐

Q19 **INCORRECT** 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 ☐

Q20 **INCORRECT** 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 ☐

Q21 **INCORRECT** 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 ☐

Q22 **INCORRECT** What is the safe stress if the ultimate stress of a material is 35 kg/mm^2 and factor of safety is 5?

A. 0.143 ☐

B. 0.7 ☐

C. 1.43 ☐

D. 7 ☐

Q23 **CORRECT** What is the other term used for reference table?

A. Dictionary ☐

B. Biography ☐

C. Bibliography ☐

D. Information Table ☐

Q24 **CORRECT** What is a hand book?

- A. Model book of various works
- B. Type of reference work or other collection of instruction ☒
- C. Design book of latest works
- D. Dictionary of materials

Q25 **INCORRECT** Which standard schedule of rates to be considered for estimation?

- A. Standard schedule of rates of the last year
- B. Standard schedule of rates of the average of the last 10 years
- C. Standard schedule of rates of the average of last 5 years ☒
- D. Standard schedule of rates of the current year ☐

Q26 **INCORRECT** What is an over estimate?

- A. When an estimate is exceeded to actual estimate ☐
- B. When an estimate is fell short of the actual estimate ☒
- C. When an estimate perfectly matches the actual estimate
- D. No work started as per estimate

Q27 **INCORRECT** What is the term used for the method of calculating various quantities and expenditure on a particular job or process?

- A. Estimation ☐
- B. Drawing
- C. Specification ☒
- D. Plan

Q28 **INCORRECT** What is the minimum permissible size of aluminium wire used in estimation?

A. 1.5 sq.mm ☐

B. 2.5 sq.mm ☐

C. 5 sq.mm ☒

D. 3.5 sq.mm ☐

Q29 **INCORRECT** Which one is the most reliable estimate?

A. Preliminary estimate ☐

B. Plinth area estimate ☐

C. Cube rate estimate ☐

D. Detailed estimate ☒

Q30 **INCORRECT** What describes the detailed specification for the item of work?

A. Quality, Quantity, Workmanship, Method of execution ☐

B. Colour ☐

C. Tax, Transport, Overhead expenses ☐

D. Maintenance, Stock, Cost ☒

Q31 **INCORRECT** Which of the impurity in cast iron makes it hard and brittle?

A. Silicon ☐

B. Sulphur ☒

C. Manganese ☐

D. Phosphorus ☐

Q32 **CORRECT** What is the relative permittivity of rubber?

A. Between 2 and 3 ☒

B. Between 5 and 6

C. Between 8 and 10

D. Between 12 and 14

Q33 **CORRECT** What is the weight of a rectangular block of a cast iron of 250cm X 20cm X 8cm (density of cast iron is 7.8 gm/cm³)?

A. 312 kg ☒

B. 372 kg

C. 410 kg

D. 525 kg

Q34 **INCORRECT** What is the estimation of milling cost of a rectangular block size 100 X 80 X 60 mm, if cost of the milling is Rs.2/sq.cm?

A. Rs.652/-

B. Rs.752/- ☒

C. Rs.572/-

D. Rs.960/- ☐

Q35 **CORRECT** What is the total wattage in a room if 2 tube lights of 50W rating, 2 fans of 80W rating, 2 numbers of light points of 60W rating, one fan point of 60W rating and one 3 pin socket of 100W rating?

A. 340 W

B. 440 W

C. 540 W ☒

D. 640 W

Q36 **INCORRECT** 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

Q37 **INCORRECT** What is the total cost of painting of a class room including ceiling, if the size of length is 6m, breadth is 5m and height is 4m. (Painting + labour cost Rs.150/- per sq.m)

A. Rs.15000/-

B. Rs.16700/-

C. Rs.17700/- ☒

D. Rs.18700/- ☐

Q38 **CORRECT** What is the total construction cost of a house construction area of 3000 sq.ft. (cost of construction Rs.2000/- per sq.ft including material and labour)?

A. Rs.30,000,000

B. Rs.60,00,000 ☒

C. Rs.6,00,000

D. Rs.6,000,000

Q39 **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 ☐

Q40 **INCORRECT** What is the centre of gravity of a solid hemisphere from its base?

A. $4r/5$

B. $3r/8$ ☐

C. $3r/4$ ☐

D. $r/2$

Q41 **INCORRECT** What is the centre of gravity of a semi circle of diameter 12 cm?

A. 2.24 cm ☐

B. 2.54 cm ☐

C. 3.25 cm

D. 2.75 cm

Q42 **INCORRECT** What are the various types of heat treatment processes?

A. Annealing, Normalising, Hardening and Tempering ☐

B. Normalising, Heating, Cooling and Painting

C. Hardening, Soaking, Painting and Packing ☐

D. Tempering, Cooling, Packing and Solling

Q43 **CORRECT** What is the process of heat treatment?

A. The process of heating and cooling to change the structure and properties ☐

B. The process of heating to change the dimensions

C. The process of cooling to measure the dimensions

D. The process of heating and bending as per our requirement

Q44 **INCORRECT** What are the various stages of heat treatment?

A. Heating, Cooling and Quenching

B. Quenching, Cooling and Heating

C. Heating, Soaking and Quenching ☒

D. Soaking, Quenching and Cooling ☐

Q45 **INCORRECT** Which process produce equilibrium conditions?

A. Annealing and Hardening

B. Normalising and Tempering ☐

C. Annealing and Normalising ☒

D. Normalising and Tempering

Q46 **CORRECT** What is the name of the heat treatment process, where the metal is heated and quenched in water or oil?

A. Hardening ☒

B. Normalising and Tempering

C. Annealing

D. Tempering

Q47 **CORRECT** Which is a kind of surface hardening process?

A. Cementite

B. Ferrite

C. Nitriding ☒

D. Tempering

Q48 **CORRECT** How much time is allowed normally in soaking zone for a 10mm thick metal piece while hardening?

A. 5 minutes ☒

B. 10 minutes

C. 15 minutes

D. 20 minutes

Q49 **CORRECT** What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

A. Blue

B. Brown ☒

C. Purple

D. Pale

Q50 **INCORRECT** What is the purpose of tempering a steel?

A. To reduce the brittleness ☒

B. To remove the ductility ☐

C. To increase the hardness

D. To increase the brittleness