

Trinity, College udhyavara udupi

ITI Quiz W/C - 01-Jul-2026 09:36 AM

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90.00% 45 / 50

Student Name	Vinyas	Access Code	0117
Attempt No.	#1	Completion Time	11:24 AM
Rank	#2	Total Questions	50

45 SCORE

50 MAX MARKS

45 CORRECT

5 INCORRECT

Answer Review

Q1 **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

Q2 **CORRECT** 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

Q3 **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. $h/5$

Q4 **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

Q5 **CORRECT** What is the centre of gravity of a solid hemisphere from its base?

A. $4r/5$

B. $3r/8$ ☒

C. $3r/4$

D. $r/2$

Q6 **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

Q7 **CORRECT** Which is elastic material?

A. Nylon ☒

B. Polystyrenes

C. Celluloid

D. Polycarbonates

Q8 **INCORRECT** Which is thermo plastic material?

A. Butyl rubber

B. Nylon ☐

C. Neoprene

D. Vinyl polymers ☒

Q9 **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%

Q10 **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

Q11 **CORRECT** What is the unit of strain?

A. Kg/cm^2

B. Newton/metre^2

C. Metre

D. No unit ☒

Q12 **INCORRECT** Which symbol is used to express change in length?

A. L ☐

B. δl ☒

C. l

D. e

Q13 **CORRECT** Which one is the ratio of stress?

A. Load and area ☒

B. Load and direction

C. Load and diameter

D. Load and time

Q14 **CORRECT** Which force acts on rivets?

A. Tensile force

B. Compressive force

C. Shear force ☒

D. Bending force

Q15 **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

Q16 **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

Q17 **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

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

A. Shear stress

B. Torsional stress ☐

C. Tensile stress

D. Compressive stress

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 **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

Q21 **CORRECT** Which hand book referred by machine engineer?

A. Parry's cheorikal

B. CRC

C. Mark standard ☐

D. Oxford Dictionary

Q22 **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

Q23 **CORRECT** 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 ☒

Q24 **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

Q25 **INCORRECT** Which authority publishes schedule of rates?

- A. Individual ☐
- B. Corporate
- C. Partnership firm
- D. Government department ☒

Q26 **CORRECT** What is the name of a booklet, the rates of various terms are indicated?

- A. Price bank
- B. Price bunch
- C. Price tag
- D. Price catalogue ☒

Q27 **CORRECT** What is the use of engineering drawing?

A. For estimation of material and execution of work ☒

B. For colourful appearance

C. For reducing the cost

D. For increasing the cost

Q28 **CORRECT** Which one is related to estimation of work?

A. Bill of material ☒

B. Packing

C. Information table

D. Hand book

Q29 **CORRECT** What is a total cost?

A. Raw material cost only

B. Machining cost only

C. Raw materials cost and machining cost ☒

D. Advertisement cost only

Q30 **CORRECT** What is the minimum permissible area of conductor (U/G cable) for three and half cores cable?

A. 25 sq.mm

B. 50 sq.mm ☒

C. 5 sq.mm

D. 100 sq.mm

Q31 **CORRECT** Which one is the most reliable estimate?

A. Preliminary estimate

B. Plinth area estimate

C. Cube rate estimate

D. Detailed estimate ☒

Q32 **CORRECT** 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

Q33 **CORRECT** Which of the impurity in cast iron makes it hard and brittle?

A. Silicon

B. Sulphur ☒

C. Manganese

D. Phosphorus

Q34 **CORRECT** What cables are used for 132KV lines?

A. High tension

B. Super tension

C. Extra high tension

D. Extra super voltage ☒

Q35 **CORRECT** Which specification is other than general specification?

A. Brief specification

B. Bulk specification

C. Detailed specification ☒

D. Main specification

Q36 **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

Q37 **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

Q38 **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

Q39 **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

Q40 **CORRECT** What is the total cost to assemble 10 personal computer systems, spares cost as given for one system: 1 TB hard disc Rs.4500/-, Intel i3 mother board Rs.7000/-, SMPS Rs.2500/-, monitor Rs.6000/-, keyboard Rs.1000/-, other material cost (Switches, USB, Cables)

A. Rs.275000/- ☒

B. Rs.250000/-

C. Rs.225000/-

D. Rs.265000/-

Q41 **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

Q42 **CORRECT** What is the total cost of Air-conditioners installed in a college, 40 class room-each 1 Air-conditioner, Computer lab 5 Air-conditioners and conference hall 5 Air-conditioners (Cost of one air conditioner Rs.30000/- including installation)?

A. Rs.10 lakhs

B. Rs. 20 lakhs

C. Rs. 12 lakhs

D. Rs. 15 lakhs ☒

Q43 **CORRECT** 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

Q44 **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

Q45 **CORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable ☒

D. Horizontal

Q46 **CORRECT** 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

Q47 **CORRECT** Which heat treatment process is done to refine the grain structure of the steel?

A. Annealing

B. Normalising ☒

C. Hardening

D. Tempering

Q48 **CORRECT** Which is the suitable nitriding process for all alloyed and unalloyed steels?

A. Silver nitriding

B. Nitriding in salt-bath ☒

C. Nitriding in Quenching tank

D. Gas nitriding

Q49 **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

Q50 **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