

Trinity, College udhyavara udupi

ITI Quiz W/C - 02-May-2026 01:19 PM

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Attempt No.	#5	Completion Time	02:49 PM
Rank	#1	Total Questions	50

32 SCORE

50 MAX MARKS

32 CORRECT

18 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 solid hemisphere from its base?

A. $4r/5$

B. $3r/8$ ☒

C. $3r/4$

D. $r/2$

Q4 **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

Q5 **CORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable ☒

D. Horizontal

Q6 **CORRECT** 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

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

A. L

B. Δl

C. l

D. e

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

A. Load and area $\square$

B. Load and direction

C. Load and diameter

D. Load and time

Q13 **CORRECT** Which law states that within elastic limit stress is directly proportional to strain?

A. Newtons law

B. Hooks law $\square$

C. Joules law

D. Charles law

Q14 **CORRECT** What is the ratio of ultimate load to area of original cross section?

A. Factor of safety

B. Yield point

C. Ultimate stress $\square$

D. Youngs modulus

Q15 **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 ☐

Q16 **INCORRECT** Which is thermosetting plastic?

A. Vinyl polymers ☐

B. Polystyrenes ☐

C. Celluloid ☐

D. Melamine resins ☒

Q17 **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 ☐

Q18 **CORRECT** 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 ☒

Q19 **INCORRECT** Which hand book referred by machine engineer?

A. Parry's cheorikal

B. CRC

C. Mark standard ☐

D. Oxford Dictionary ☐

Q20 **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

Q21 **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 ☐

Q22 **CORRECT** Which authority publishes schedule of rates?

A. Individual

B. Corporate

C. Partnership firm

D. Government department ☐

Q23 **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 ☒

Q24 **INCORRECT** What is the term, for the details of materials, brand name, grade of quality, rating of current and voltage etc.?

- A. Drawing
- B. Specification of materials ☒
- C. Raw materials ☐
- D. Price catalogue

Q25 **INCORRECT** 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 ☐

Q26 **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

Q27 **CORRECT** Which one is included in machining estimation sheet?

A. Transport cost

B. Advertisement cost

C. Raw material cost ☒

D. Tax

Q28 **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

Q29 **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

Q30 **INCORRECT** What cables are used for 132KV lines?

A. High tension ☐

B. Super tension

C. Extra high tension

D. Extra super voltage ☒

Q31 **INCORRECT** Which specification is other than general specification?

A. Brief specification ☐

B. Bulk specification

C. Detailed specification ☐

D. Main specification

Q32 **CORRECT** What is the total estimation cost for making the component of 8 drilled hole dia 10 mm and 4 Numbers of M6 taps in the plate, if Rs.8/- per drilled holes and Rs.12 per drill and tap?

A. Rs.102

B. Rs.100

C. Rs.112 ☐

D. Rs.110

Q33 **CORRECT** What is the estimation of milling cost of a rectangular block size 100 X 80 X60 mm, if cost of the milling is Rs.2/sq.cm?

A. Rs.652/-

B. Rs.752/- ☐

C. Rs.572/-

D. Rs.960/-

Q34 **INCORRECT** 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

Q35 **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

Q36 **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

Q37 **INCORRECT** What is the centre of gravity of a right circular cone from its base?

A. $h/2$

B. $h/3$ ☒

C. $h/4$ ☐

D. $h/5$

Q38 **INCORRECT** 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 ☐

Q39 **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 ☐

Q40 **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 ☐

Q41 **INCORRECT** What is the name of the structure formed, if a steel is heated for about 723 Degree C?

A. Cementite ☐

B. Austenite ☒

C. Martensite ☐

D. Ferrite ☐

Q42 **CORRECT** Which heat treatment process is done to refine the grain structure of the steel?

A. Annealing ☐

B. Normalising ☒

C. Hardening ☐

D. Tempering ☐

Q43 **CORRECT** Which process produce equilibrium conditions?

- A. Annealing and Hardening
- B. Normalising and Tempering
- C. Annealing and Normalising ☒
- D. Normalising and Tempering

Q44 **INCORRECT** Which process steel is heated in a carbonaceous atmosphere for the penetration of carbon?

- A. Case hardening
- B. Nitriding ☐
- C. Carburising ☒
- D. Induction hardening

Q45 **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

Q46 **INCORRECT** 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 **INCORRECT** 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 ☐