

Trinity, College udhyavara udupi

ITI Quiz W/C - 02-May-2026 01:04 PM

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40.00% 20 / 50

Student Name	Ashmitha	Access Code	2168
Attempt No.	#2	Completion Time	02:50 PM
Rank	#6	Total Questions	50

20 SCORE

50 MAX MARKS

20 CORRECT

30 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 **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 ☐

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 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

Q6 **INCORRECT** Which is elastic material?

A. Nylon ☒

B. Polystyrenes ☐

C. Celluloid

D. Polycarbonates

Q7 **CORRECT** Which one is the ratio of stress?

A. Load and area ☒

B. Load and direction ☐

C. Load and diameter ☐

D. Load and time ☐

Q8 **INCORRECT** 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 ☐

Q9 **INCORRECT** Which force acts on crank shaft?

A. Shear stress ☐

B. Torsional stress ☒

C. Tensile stress ☐

D. Compressive stress ☐

Q10 **CORRECT** Which is thermosetting plastic?

A. Vinyl polymers ☐

B. Polystyrenes ☐

C. Celluloid ☐

D. Melamine resins ☒

Q11 **INCORRECT** 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

Q12 **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

Q13 **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

Q14 **INCORRECT** What is the young's modulus if a wire of 2m long, 0.8 mm^2 in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

A. 1.25 kg/mm^2

B. 12.5 kg/mm^2 ☐

C. 125 kg/mm^2

D. 12500 kg/mm^2 ☐

Q15 **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 ☐

Q16 **CORRECT** 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

Q17 **INCORRECT** 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

Q18 **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

Q19 **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 ☐

Q20 **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

Q21 **INCORRECT** Which one is related to estimation of work?

A. Bill of material ☐

B. Packing ☐

C. Information table

D. Hand book

Q22 **INCORRECT** 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

Q23 **INCORRECT** Who prepares the cost of estimation?

A. Operator

B. Quality Inspector ☐

C. Estimator ☐

D. Draughts man

Q24 **INCORRECT** Which one is included in machining estimation sheet?

A. Transport cost ☐

B. Advertisement cost

C. Raw material cost ☐

D. Tax

Q25 **INCORRECT** 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

Q26 **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

Q27 **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

Q28 **INCORRECT** Which of the impurity in cast iron makes it hard and brittle?

A. Silicon ☐

B. Sulphur ☐

C. Manganese

D. Phosphorus

Q29 **INCORRECT** What cables are used for 132KV lines?

A. High tension ☐

B. Super tension

C. Extra high tension

D. Extra super voltage ☐

Q30 **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

Q31 **INCORRECT** 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

Q32 **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/-

Q33 **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

Q34 **CORRECT** 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/-

Q35 **INCORRECT** 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/- ☐

Q36 **CORRECT** Which affects the centre of gravity of the object

A. Weight ☐

B. Mass ☒

C. Density ☐

D. Shape ☐

Q37 **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 ☐

Q38 **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 ☐

Q39 **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

Q40 **INCORRECT** Which state of equilibrium's example is A cone resting on its tip?

- A. Stable ☐
- B. Neutral
- C. Unstable ☒
- D. Horizontal

Q41 **INCORRECT** Which one of the following geometrical shape's centre of gravity lies from its base is $\frac{1}{3}$ of its height?

- A. Square
- B. Rhombus ☐
- C. Triangle ☒
- D. Cone

Q42 **CORRECT** 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

Q43 **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

Q44 **INCORRECT** What is the name of the structure formed, if a steel is heated for about 723 Degree C?

A. Cementide ☐

B. Austenite ☒

C. Martensite

D. Ferrite

Q45 **CORRECT** Which heat treatment process is done to refine the grain structure of the steel?

A. Annealing

B. Normalising ☒

C. Hardening

D. Tempering

Q46 **CORRECT** Which process produce equilibrium conditions?

A. Annealing and Hardening

B. Normalising and Tempering

C. Annealing and Normalising ☒

D. Normalising and Tempering

Q47 **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

Q48 **INCORRECT** Which is a kind of surface hardening process?

A. Cementite

B. Ferrite

C. Nitriding ☒

D. Tempering ☐

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 ☐