

Dr. J. J. Magdum ITI college sambhajipur

ITI Quiz - 10-Jun-2026 09:45 AM

Q. ID: ITISKILL8819V0 | June 2026

88.46% 69 / 78

Student Name	Omkar Rajendra Damate	Access Code	9763
Attempt No.	#1	Completion Time	10:15 AM
Rank	#8	Total Questions	78

69 SCORE

78 MAX MARKS

69 CORRECT

9 INCORRECT

Answer Review

Q1 **INCORRECT** Which affects the centre of gravity of the object?

A. Weight

B. Mass ☒

C. Density

D. Shape ☐

Q2 **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

Q3 **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

Q4 **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. $h/5$

Q5 **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

Q6 **CORRECT** What is the centre of gravity of a solid hemisphere from its base?

A. $4r/5$

B. $3r/8$ ☒

C. $3r/4$

D. $r/2$

Q7 **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

Q8 **CORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable ☒

D. Horizontal

Q9 **CORRECT** Which one of the following geometrical shapes centre of gravity lies from its base is $\frac{1}{3}$ of its height?

A. Square

B. Rhombus

C. Triangle ☒

D. Cone

Q10 **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

Q11 **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

Q12 **CORRECT** Which is elastic material?

A. Nylon ☒

B. Polystyrenes

C. Celluloid

D. Polycarbonates

Q13 **CORRECT** Which is thermo plastic material?

A. Butyl rubber

B. Nylon

C. Neoprene

D. Vinyl polymers ☒

Q14 **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%

Q15 **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

Q16 **CORRECT** What is the unit of strain?

A. Kg/cm^2

B. Newton/metre^2

C. Metre

D. No unit ☒

Q17 **CORRECT** What is the ratio of change in length to original length?

A. Linear strain ☒

B. Lateral strain

C. Volumetric strain

D. Poisson's ratio

Q18 **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 ☒

Q19 **CORRECT** Which symbol is used to express change in length?

A. L

B. ΔL

C. l

D. e

Q20 **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

Q21 **CORRECT** Which force acts on rivets?

A. Tensile force

B. Compressive force

C. Shear force $\square$

D. Bending force

Q22 **CORRECT** What is the formula for bulk modulus?

A. Tensile stress/Tensile strain

B. Compressive stress/Compressive strain

C. Volumetric stress/Volumetric strain $\square$

D. Shear stress/Shear strain

Q23 **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

Q24 **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 ☒

Q25 **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

Q26 **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

Q27 **CORRECT** What is the ratio of shear stress to shear strain?

A. Modulus of elasticity

B. Modulus of rigidity ☒

C. Bulk modulus

D. Yield point

Q28 **CORRECT** What is the ratio between stress and strain?

A. Yield point

B. Factor of safety

C. Young's Modulus ☒

D. Poisson's ratio

Q29 **CORRECT** Which force acts on crank shaft?

A. Shear stress

B. Torsional stress ☒

C. Tensile stress

D. Compressive stress

Q30 **CORRECT** Which is thermosetting plastic?

A. Vinyl polymers

B. Polystyrenes

C. Celluloid

D. Melamine resins ☒

Q31 **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

Q32 **CORRECT** 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

Q33 **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

Q34 **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

Q35 **CORRECT** What is the young's 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. 12.5 kg /mm²

C. 125 kg/mm²

D. 12500 kg/mm² ☒

Q36 **CORRECT** What is the safe stress if the ultimate stress of a material is 35 kg/mm² and factor of safety is 5?

A. 0.143

B. 0.7

C. 1.43

D. 7 ☒

Q37 **CORRECT** What is the other term used for reference table?

A. Dictionary

B. Biography

C. Bibliography

D. Information Table ☒

Q38 **CORRECT** Which hand book referred by machine engineer?

A. Parry's cheorikal

B. CRC

C. Mark standard ☒

D. Oxford Dictionary

Q39 **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

Q40 **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 ☒

Q41 **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

Q42 **CORRECT** 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

Q43 **CORRECT** 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

Q44 **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

Q45 **CORRECT** Which authority publishes schedule of rates?

A. Individual

B. Corporate

C. Partnership firm

D. Government department ☒

Q46 **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 ☒

Q47 **CORRECT** 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

Q48 **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

Q49 **CORRECT** What is the other term of pocket reference in engineering works?

A. Hand tool

B. Hand book ☒

C. Good book

D. New book

Q50 **CORRECT** Which one is related to estimation of work?

A. Bill of material ☒

B. Packing

C. Information table

D. Hand book

Q51 **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

Q52 **CORRECT** Who prepares the cost of estimation?

A. Operator

B. Quality Inspector

C. Estimator ☒

D. Draughts man

Q53 **CORRECT** Which one is included in machining estimation sheet?

A. Transport cost

B. Advertisement cost

C. Raw material cost ☒

D. Tax

Q54 **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

Q55 **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

Q56 **CORRECT** Which one is the most reliable estimate?

A. Preliminary estimate

B. Plinth area estimate

C. Cube rate estimate

D. Detailed estimate ☐

Q57 **CORRECT** 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

Q58 **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

Q59 **CORRECT** Which of the impurity in cast iron makes it hard and brittle?

A. Silicon

B. Sulphur ☒

C. Manganese

D. Phosphorus

Q60 **INCORRECT** What cables are used for 132KV lines?

A. High tension

B. Super tension ☐

C. Extra high tension

D. Extra super voltage ☒

Q61 **CORRECT** Which specification is other than general specification?

A. Brief specification

B. Bulk specification

C. Detailed specification ☒

D. Main specification

Q62 **CORRECT** What percentage of water absorbed by a good building stone?

A. Less than 10%

B. Less than 20%

C. Less than 8%

D. Less than 5% ☒

Q63 **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

Q64 **CORRECT** What is the weight of the iron ball has volume of 250 cc and density 7.5 gm/cc?

A. 1750 gram

B. 1875 gram ☐

C. 1975 gram

D. 1785 gram

Q65 **INCORRECT** What is the weight of a rectangular block of a cost 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 ☐

Q66 **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

Q67 **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/-

Q68 **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

Q69 **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

Q70 **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/-

Q71 **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, Cabl

A. Rs.275000/- ☐

B. Rs.250000/- ☐

C. Rs.225000/- ☐

D. Rs.265000/- ☐

Q72 **INCORRECT** 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 ☐

Q73 **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 ☐

Q74 **INCORRECT** Which affects the centre of gravity of the object

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