

# Dr. J. J. Magdum ITI college sambhajipur

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

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85.90% 67 / 78

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|--------------|--------------|-----------------|----------|
| Student Name | Akshay sutar | Access Code     | 7051     |
| Attempt No.  | #1           | Completion Time | 10:19 AM |
| Rank         | #12          | Total Questions | 78       |

67 SCORE

78 MAX MARKS

67 CORRECT

11 INCORRECT

### Answer Review

Q1 **CORRECT** 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** **INCORRECT** 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** **INCORRECT** 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** **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%

**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.  $\text{Kg/cm}^2$

B.  $\text{Newton/metre}^2$

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.  $\Delta l$

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  $50\text{ N/mm}^2$ ? ( $\pi = 22/7$ )

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.  $1\text{ kg/mm}^2$

B.  $10\text{ kg/mm}^2$  ☒

C.  $100\text{ kg/mm}^2$

D.  $1000\text{ kg/mm}^2$

**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** **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

**Q35** **CORRECT** What is the young's modulus if a wire of 2m long, 0.8 mm<sup>2</sup> in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

A. 1.25 kg/mm<sup>2</sup>

B. 12.5 kg /mm<sup>2</sup>

C. 125 kg/mm<sup>2</sup>

D. 12500 kg/mm<sup>2</sup> ☐

**Q36** **CORRECT** What is the safe stress if the ultimate stress of a material is 35 kg/mm<sup>2</sup> 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** **INCORRECT** 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 **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

**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** **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

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

A. High tension

B. Super tension

C. Extra high tension

D. Extra super voltage ☐

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

A. Brief specification

B. Bulk specification ☐

C. Detailed specification ☐

D. Main specification

**Q62** **INCORRECT** 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 **CORRECT** 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/cm<sup>3</sup>)?

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** **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

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

A. Weight

B. Mass ☐

C. Density

D. Shape

**Q75** **CORRECT** What is the name of the point at which all the weight of the body concentrated?

A. Initial point

B. Centre of gravity ☒

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**Q76** **CORRECT** Where the centre of gravity of a circle lies?

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**Q77** **CORRECT** What is the centre of gravity of a right circular cone from its base?

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C.  $h/4$  ☒

D.  $h/5$

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