

ITI Quiz - 19-Jun-2026

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Q. ID: ITISKILL0051LM

June 2026

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Answer Key

Duration: 90 Mins

Total Marks: 91

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1. Which one is related to estimation of work?

- A) Bill of material
- B) Information table
- C) Hand book
- D) Packing

Answer: A) Bill of material

2. What is the centre of gravity of a semi circle of diameter 12 cm?

- A) 2.75 cm
- B) 3.25 cm
- C) 2.24 cm
- D) 2.54 cm

Answer: D) 2.54 cm

3. What is the main factor to be considered while preparing a detailed estimate?

- A) Shape of material
- B) Quantity, availability and transportation of materials
- C) Brand of the materials
- D) Location of material

Answer: B) Quantity, availability and transportation of materials

4. What is the process of heat treatment?

- A) The process of cooling to measure the dimensions
- B) The process of heating and cooling to change the structure and properties
- C) The process of heating and bending as per our requirement
- D) The process of heating to change the dimensions

Answer: B) The process of heating and cooling to change the structure and properties

5. What is the centre of gravity of a sphere?

- A) At the diameter
- B) At the centre
- C) On the circumference
- D) At the radius

Answer: B) At the centre

6. 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.18700/-
- C) Rs.17700/-
- D) Rs.16700/-

Answer: C) Rs.17700/-

7. What is the term used for the method of calculating various quantities and expenditure on a particular job or process?

A) Estimation

B) Specification

C) Drawing

D) Plan

Answer: A) Estimation

8. Which one is included in machining estimation sheet?

A) Transport cost

B) Advertisement cost

C) Tax

D) Raw material cost

Answer: D) Raw material cost

9. Which one is the ratio of stress?

A) Load and area

B) Load and diameter

C) Load and direction

D) Load and time

Answer: A) Load and area

10. Which force acts on rivets?

A) Compressive force

B) Tensile force

C) Shear force

D) Bending force

Answer: C) Shear force

11. What is an over estimate?

A) When an estimate perfectly matches the actual estimate

B) When an estimate is exceeded to actual estimate

C) No work started as per estimate

D) When an estimate is fell short of the actual estimate

Answer: B) When an estimate is exceeded to actual estimate

12. What are the various types of heat treatment processes?

A) Hardening, Soaking, Painting and Packing

B) Tempering, Cooling, Packing and Soling

C) Annealing, Normalising, Hardening and Tempering

D) Normalising, Heating, Cooling and Painting

Answer: C) Annealing, Normalising, Hardening and Tempering

13. Which is thermosetting plastic?

A) Vinyl polymers

B) Melamine resins

C) Polystyrenes

D) Celluloid

Answer: B) Melamine resins

14. What is the centre of gravity of a semi circle of diameter 12 cm?

A) 2.54 cm

B) 2.24 cm

C) 3.25 cm

D) 2.75 cm

Answer: A) 2.54 cm

15. What is the ratio between the change in dimension to its original dimension of the substance?

A) Factor of safety

B) Stress

C) Strain

D) Poisson's ratio

Answer: C) Strain

16. What is the term used for maximum stress attained by a material before rupture?

A) Tensile stress

B) Ultimate stress

C) Compressive stress

D) Working stress

Answer: B) Ultimate stress

17. What is the name of the point at which all the weight of the body concentrated?

A) Initial point

B) Centre of gravity

C) Central point

D) Centroid

Answer: B) Centre of gravity

18. What cables are used for 132KV lines?

A) Extra high tension

B) High tension

C) Extra super voltage

D) Super tension

Answer: C) Extra super voltage

19. What is the ratio of change in length to original length?

A) Linear strain

B) Lateral strain

C) Poisson's ratio

D) Volumetric strain

Answer: A) Linear strain

20. Which IE rules are to be verified on completion of wiring on any new installation?

A) IE Rules, 1956

B) IE Rules, 1961

C) IE Rules, 1960

D) IE Rules, 1967

Answer: A) IE Rules, 1956

21. What is a under estimate?

A) An estimate is fell short of the actual estimate

B) No work started as per estimate

C) An estimate is exceeded the actual estimate

D) An estimate perfectly matches with actual

Answer: A) An estimate is fell short of the actual estimate

22. What is the centre of gravity of a solid hemisphere from its base?

A) $4r/5$

B) $3r/4$

C) $3r/8$

D) $r/2$

Answer: C) $3r/8$

23. What is the ratio of shear stress to shear strain?

A) Bulk modulus

B) Modulus of rigidity

C) Yield point

D) Modulus of elasticity

Answer: B) Modulus of rigidity

24. 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) 640 W

B) 440 W

C) 340 W

D) 540 W

Answer: D) 540 W

25. What is the minimum permissible size of aluminium wire used in estimation?

A) 2.5 sq.mm

B) 3.5 sq.mm

C) 1.5 sq.mm

D) 5 sq.mm

Answer: C) 1.5 sq.mm

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

A) 25 sq.mm

B) 100 sq.mm

C) 50 sq.mm

D) 5 sq.mm

Answer: C) 50 sq.mm

27. What is the youngs 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) 12500 kg/mm²

B) 12.5 kg/mm²

C) 125 kg/mm²

D) 1.25 kg/mm²

Answer: A) 12500 kg/mm²

28. Which of the impurity in cast iron makes it hard and brittle?

A) Phosphorus

B) Manganese

C) Sulphur

D) Silicon

Answer: C) Sulphur

29. 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) 0.0001687

B) 0.0001786

C) 0.0001968

D) 0.0001867

Answer: B) 0.0001786

30. What is the centre of gravity of a rectangular body?

A) Longer side of rectangle

B) Shorter side of rectangle

C) At the corners

D) At the point of intersection of its diagonals

Answer: D) At the point of intersection of its diagonals

31. Which one is the most reliable estimate?

- A) Preliminary estimate B) Plinth area estimate
C) Cube rate estimate D) Detailed estimate

Answer: D) Detailed estimate

32. What is the ratio between stress and strain?

- A) Young's Modulus B) Factor of safety
C) Poisson's ratio D) Yield point

Answer: A) Young's Modulus

33. What is the centre of gravity of a solid hemisphere from its base?

- A) $r/2$ B) $3r/8$
C) $4r/5$ D) $3r/4$

Answer: B) $3r/8$

34. What is the name of the structure formed, if a steel is heated for about 723 Degree C?

- A) Martensite B) Austenite
C) Ferrite D) Cementite

Answer: B) Austenite

35. 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. 15 lakhs B) Rs. 12 lakhs
C) Rs.10 lakhs D) Rs. 20 lakhs

Answer: A) Rs. 15 lakhs

36. What is the unit of strain?

- A) Kg/cm^2 B) Newton/metre^2
C) No unit D) Metre

Answer: C) No unit

37. Which state of equilibrium's example is A cone resting on its tip?

- A) Neutral B) Unstable
C) Stable D) Horizontal

Answer: B) Unstable

38. Which standard schedule of rates to be considered for estimation?

- A) Standard schedule of rates of the current 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 last year

Answer: A) Standard schedule of rates of the current year

39. Which force acts on crank shaft?

- A) Tensile stress B) Compressive stress
C) Torsional stress D) Shear stress

Answer: C) Torsional stress

40. Which state of equilibrium's example is A cone resting on its tip?

- A) Neutral B) Unstable
C) Stable D) Horizontal

Answer: B) Unstable

41. What is the other term used for reference table?

- A) Dictionary B) Biography
C) Bibliography D) Information Table

Answer: D) Information Table

42. 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. 1400 B) Rs. 2000
C) Rs. 2400 D) Rs. 3000

Answer: C) Rs. 2400

43. What is the ratio between ultimate stress to working stress?

- A) Young's modulus B) Factor of safety
C) Modulus of rigidity D) Bulk modulus

Answer: B) Factor of safety

44. 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) 410 kg B) 372 kg
C) 312 kg D) 525 kg

Answer: C) 312 kg

45. 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) 0.001 B) 0.0001
C) 0.01 D) 0.1

Answer: C) 0.01

46. What is the centre of gravity of a sphere?

- A) At the diameter B) On the circumference
C) At the radius D) At the centre

Answer: D) At the centre

47. Which is thermo plastic material?

- A) Neoprene B) Vinyl polymers
C) Nylon D) Butyl rubber

Answer: B) Vinyl polymers

48. What percentage of water absorbed by a good building stone?

- A) Less than 5%
- B) Less than 8%
- C) Less than 20%
- D) Less than 10%

Answer: A) Less than 5%

49. Where the centre of gravity of a circle lies?

- A) Any where on its radius
- B) Any where on its diameter
- C) Any where on its circumference
- D) At its centre

Answer: D) At its centre

50. Which state of equilibrium's example is, A cone resting on its base?

- A) Neutral
- B) Un-stable
- C) Stable
- D) Both A and B

Answer: C) Stable

51. Which symbol is used to express change in length?

- A) e
- B) L
- C) l
- D) Δl

Answer: D) Δl

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

- A) Square
- B) Cone
- C) Rhombus
- D) Triangle

Answer: D) Triangle

53. What is the relative permittivity of rubber?

- A) Between 2 and 3
- B) Between 5 and 6
- C) Between 12 and 14
- D) Between 8 and 10

Answer: A) Between 2 and 3

54. What is the ratio between lateral strain and longitudinal strain?

- A) Poisson's ratio
- B) Hooks law
- C) Bulk modulus
- D) Young's modulus

Answer: A) Poisson's ratio

55. What is the centre of gravity of a right circular cone from its base?

- A) $\frac{h}{5}$
- B) $\frac{h}{4}$
- C) $\frac{h}{2}$
- D) $\frac{h}{3}$

Answer: B) $\frac{h}{4}$

56. What is the name of a booklet, the rates of various terms are indicated?

- A) Price tag
- B) Price bank
- C) Price bunch
- D) Price catalogue

Answer: D) Price catalogue

57. Which heat treatment process is done to refine the grain structure of the steel?

- A) Annealing
- B) Normalising
- C) Tempering
- D) Hardening

Answer: B) Normalising

58. Which specification is other than general specification?

- A) Main specification
- B) Detailed specification
- C) Brief specification
- D) Bulk specification

Answer: B) Detailed specification

59. Which law states that within elastic limit stress is directly proportional to strain?

- A) Joules law
- B) Charles law
- C) Newtons law
- D) Hooks law

Answer: D) Hooks law

60. 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.6,000,000
- B) Rs.6,00,000
- C) Rs.60,00,000
- D) Rs.30,000,000

Answer: C) Rs.60,00,000

61. What is the name of the point at which all the weight of the body concentrated?

- A) Centre of gravity
- B) Initial point
- C) Centroid
- D) Central point

Answer: A) Centre of gravity

62. Which hand book referred by machine engineer?

- A) Oxford Dictionary
- B) Parry's cheorikal
- C) Mark standard
- D) CRC

Answer: C) Mark standard

63. What is the formula for bulk modulus?

- A) Tensile stress/Tensile strain
- B) Compressive stress/Compressive strain
- C) Shear stress/Shear strain
- D) Volumetric stress/Volumetric strain

Answer: D) Volumetric stress/Volumetric strain

64. Which is elastic material?

- A) Polystyrenes
- B) Celluloid
- C) Nylon
- D) Polycarbonates

Answer: C) Nylon

65. What is the centre of gravity of a right circular cone from its base?

- A) $\frac{h}{5}$
- B) $\frac{h}{2}$
- C) $\frac{h}{4}$
- D) $\frac{h}{3}$

Answer: C) h/4

66. 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.100
- B) Rs.110
- C) Rs.112
- D) Rs.102

Answer: C) Rs.112

67. 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.752/-
- B) Rs.652/-
- C) Rs.960/-
- D) Rs.572/-

Answer: A) Rs.752/-

68. What are the various stages of heat treatment?

- A) Quenching, Cooling and Heating
- B) Heating, Soaking and Quenching
- C) Soaking, Quenching and Cooling
- D) Heating, Cooling and Quenching

Answer: B) Heating, Soaking and Quenching

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

- A) Drawing
- B) Price catalogue
- C) Specification of materials
- D) Raw materials

Answer: C) Specification of materials

70. What is the safe stress if the ultimate stress of a material is 35 kg/mm² and factor of safety is 5?

- A) 1.43
- B) 0.143
- C) 7
- D) 0.7

Answer: C) 7

71. Which one of the following geometrical shape's centre of gravity lies from its base is 1/3 of its height?

- A) Square
- B) Cone
- C) Triangle
- D) Rhombus

Answer: C) Triangle

72. What is the ratio of ultimate load to area of original cross section?

- A) Youngs modulus
- B) Yield point
- C) Factor of safety
- D) Ultimate stress

Answer: D) Ultimate stress

73. 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.250000/-

B) Rs.265000/-

C) Rs.275000/-

D) Rs.225000/-

Answer: C) Rs.275000/-

74. Which affects the centre of gravity of the object?

- A) Mass
- B) Shape
- C) Density
- D) Weight

Answer: A) Mass

75. What is the maximum percentage of stretch of its original length is allowable for elastic materials?

- A) 300%
- B) 200%
- C) 100%
- D) 400%

Answer: A) 300%

76. What is the weight of the iron ball has volume of 250 cc and density 7.5 gm/cc?

- A) 1875 gram
- B) 1750 gram
- C) 1785 gram
- D) 1975 gram

Answer: A) 1875 gram

77. Who prepares the cost of estimation?

- A) Quality Inspector
- B) Estimator
- C) Operator
- D) Draughts man

Answer: B) Estimator

78. What describes the detailed specification for the item of work?

- A) Tax, Transport, Overhead expenses
- B) Colour
- C) Maintenance, Stock, Cost
- D) Quality, Quantity, Workmanship, Method of execution

Answer: D) Quality, Quantity, Workmanship, Method of execution

79. Where the centre of gravity of a circle lies?

- A) Any where on its circumference
- B) At its centre
- C) Any where on its diameter
- D) Any where on its radius

Answer: B) At its centre

80. Which state of equilibrium's example is, A cone resting on its base?

- A) Neutral
- B) Stable
- C) Un-stable
- D) Bothe A and B

Answer: B) Stable

81. What is the tensile stress if a square rod of 10 mm side is tested for a tensile load of 1000 kg?

- A) 100 kg/mm²
- B) 10 kg /mm²

- C) 1000 kg/mm² D) 1 kg/mm²

Answer: B) 10 kg /mm²

82. What is the use of engineering drawing?

- A) For colourful appearance B) For reducing the cost
C) For estimation of material and execution of work D) For increasing the cost

Answer: C) For estimation of material and execution of work

83. What is the centre of gravity of a rectangular body?

- A) Shorter side of rectangle B) At the corners
C) Longer side of rectangle D) At the point of intersection of its diagonals

Answer: D) At the point of intersection of its diagonals

84. 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 50N/mm²? ($\pi = 22/7$)

- A) 1577 N B) 1571.4 N
C) 1757 N D) 1575 N

Answer: B) 1571.4 N

85. What is a hand book?

- A) Model book of various works B) Type of reference work or other collection of instruction
C) Dictionary of materials D) Design book of latest works

Answer: B) Type of reference work or other collection of instruction

86. What is the other term of pocket reference in engineering works?

- A) Good book B) Hand tool
C) New book D) Hand book

Answer: D) Hand book

87. Which authority publishes schedule of rates?

- A) Individual B) Partnership firm
C) Government department D) Corporate

Answer: C) Government department

88. What is the name of heat treatment process done to relieve strain and stress?

- A) Annealing B) Tempering
C) Hardening D) Normalising

Answer: A) Annealing

89. What is a total cost?

- A) Advertisement cost only B) Machining cost only
C) Raw material cost only D) Raw materials cost and machining cost

Answer: D) Raw materials cost and machining cost

90. Which process produce equilibrium conditions?

- A) Annealing and Hardening B) Annealing and Normalising
C) Normalising and Tempering D) Normalising and Tempering

Answer: B) Annealing and Normalising

91. Which affects the centre of gravity of the object

- A) Density B) Weight
C) Mass D) Shape

Answer: C) Mass