

ITI Quiz - 30-Jun-2026

08:03 PM

Q. ID: ITISKILL0592PM

June 2026

Answer Key

Duration: 30 Mins

Total Marks: 98

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1. 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

2. What is a hand book?

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

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

3. 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.6,000,000
D) Rs.6,00,000

Answer: B) Rs.60,00,000

4. What is the relative permittivity of rubber?

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

Answer: D) Between 2 and 3

5. 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.10 lakhs
C) Rs. 12 lakhs
D) Rs. 20 lakhs

Answer: A) Rs. 15 lakhs

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

- A) l
B) e
C) L
D) delta l

Answer: D) delta l

7. What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

- A) Brown
B) Pale
C) Purple
D) Blue

Answer: A) Brown

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

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

Answer: B) Poisson's ratio

9. What is an over estimate?

- A) When an estimate perfectly matches the actual estimate
B) When an estimate is exceeded to actual estimate
C) When an estimate is fell short of the actual estimate
D) No work started as per estimate

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

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

- A) Standard schedule of rates of the average of last 5 years
B) Standard schedule of rates of the current year
C) Standard schedule of rates of the last year
D) Standard schedule of rates of the average of the last 10 years

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

11. 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

12. Which is the suitable nitriding process for all alloyed and unalloyed steels?

- A) Gas nitriding
B) Silver nitriding
C) Nitriding in salt-bath
D) Nitriding in Quenching tank

Answer: C) Nitriding in salt-bath

13. What is a under estimate?

- A) An estimate is exceeded the actual estimate
B) An estimate is fell short of the actual estimate
C) No work started as per estimate
D) An estimate perfectly matches with actual

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

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

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

Answer: A) $h/4$

15. 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) 440 W B) 640 W
C) 540 W D) 340 W

Answer: C) 540 W

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

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

Answer: B) Factor of safety

17. Which is elastic material?

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

Answer: B) Nylon

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

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

Answer: C) Normalising

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

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

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

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

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

Answer: A) Unstable

21. Which one is included in machining estimation sheet?

- A) Advertisement cost B) Raw material cost
C) Tax D) Transport cost

Answer: B) Raw material cost

22. Which process steel is heated in a carbonaceous atmosphere for the penetration of carbon?

- A) Induction hardening B) Case hardening
C) Nitriding D) Carburising

Answer: D) Carburising

23. 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.112 B) Rs.110
C) Rs.100 D) Rs.102

Answer: A) Rs.112

24. Which one of the following geometrical shapes centre of gravity lies from its base is $1/3$ of its height?

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

Answer: C) Triangle

25. Which specification is other than general specification?

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

Answer: B) Detailed specification

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

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

Answer: A) At the centre

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

- A) Silicon B) Sulphur
C) Manganese D) Phosphorus

Answer: B) Sulphur

28. Which one is the ratio of stress?

- A) Load and area B) Load and diameter
C) Load and time D) Load and direction

Answer: A) Load and area

29. Which one is the most reliable estimate?

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

Answer: A) Detailed estimate

30. What are the various stages of heat treatment?

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

Answer: A) Heating, Soaking and Quenching

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

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

Answer: A) Stable

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

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

Answer: A) Triangle

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

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

Answer: D) Information Table

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

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

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

35. How much time is allowed normally in soaking zone for a 10mm thick metal piece while hardening?

- A) 20 minutes
- B) 15 minutes
- C) 5 minutes
- D) 10 minutes

Answer: C) 5 minutes

36. 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) 125 kg/mm²
- C) 12500 kg/mm²
- D) 12.5 kg/mm²

Answer: C) 12500 kg/mm²

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

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

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

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

- A) Compressive stress
- B) Working stress
- C) Tensile stress
- D) Ultimate stress

Answer: D) Ultimate stress

39. 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

Answer: D) Price catalogue

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

- A) 2.5 sq.mm
- B) 1.5 sq.mm
- C) 3.5 sq.mm
- D) 5 sq.mm

Answer: B) 1.5 sq.mm

41. 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.16700/-
- B) Rs.15000/-
- C) Rs.18700/-
- D) Rs.17700/-

Answer: D) Rs.17700/-

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

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

Answer: D) Less than 5%

43. 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

Answer: C) Quantity, availability and transportation of materials

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

- A) Stress
- B) Factor of safety
- C) Strain
- D) Poisson's ratio

Answer: C) Strain

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

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

Answer: B) 1875 gram

46. What is a total cost?

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

Answer: C) Raw materials cost and machining cost

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

- A) Hardening, Soaking, Painting and Packing
- B) Normalising, Heating, Cooling and Painting

- C) Tempering, Cooling, Packing and Soling D) Annealing, Normalising, Hardening and Tempering

Answer: D) Annealing, Normalising, Hardening and Tempering

48. 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

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

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

Answer: A) Mass

50. Which is a kind of surface hardening process?

- A) Ferrite B) Nitriding
C) Tempering D) Cementite

Answer: B) Nitriding

51. 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) 0.0001 B) 0.001
C) 0.01 D) 0.1

Answer: C) 0.01

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

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

Answer: A) Centre of gravity

53. What is the safe stress if the ultimate stress of a material is 35 kg/mm^2 and factor of safety is 5?

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

Answer: D) 7

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

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

Answer: C) 2.54 cm

55. What is the name of the heat treatment process, where the metal is heated and quenched in water or oil?

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

Answer: B) Hardening

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

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

Answer: D) Hooks law

57. Which hand book referred by machine engineer?

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

Answer: D) Mark standard

58. Which force acts on crank shaft?

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

Answer: C) Torsional stress

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

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

Answer: B) At its centre

60. What is the purpose of tempering a steel?

- A) To remove the ductility B) To increase the hardness
C) To reduce the brittleness D) To increase the brittleness

Answer: C) To reduce the brittleness

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

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

Answer: D) Ultimate stress

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

- A) 10 kg/mm^2 B) 1000 kg/mm^2
C) 1 kg/mm^2 D) 100 kg/mm^2

Answer: A) 10 kg/mm^2

63. Which one is related to estimation of work?

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

Answer: D) Bill of material

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

- A) Raw materials B) Specification of materials

- C) Price catalogue D) Drawing

Answer: B) Specification of materials

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

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

Answer: A) 300%

66. 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

67. What is the process of heat treatment?

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

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

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

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

Answer: B) Unstable

69. Which force acts on rivets?

- A) Tensile force B) Bending force
C) Shear force D) Compressive force

Answer: C) Shear force

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

- A) 50 sq.mm B) 100 sq.mm
C) 5 sq.mm D) 25 sq.mm

Answer: A) 50 sq.mm

71. What is the unit of strain?

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

Answer: C) No unit

72. What is the ratio between stress and strain?

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

Answer: C) Youngs Modulus

73. What is the use of engineering drawing?

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

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

74. 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

75. 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

Answer: A) IE Rules, 1956

76. 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.225000/-
C) Rs.250000/- D) Rs.265000/-

Answer: A) Rs.275000/-

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

- A) Yield point B) Modulus of rigidity
C) Bulk modulus D) Modulus of elasticity

Answer: B) Modulus of rigidity

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

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

Answer: C) At the centre

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

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

Answer: A) Hand book

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

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

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

81. 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. 3000
C) Rs. 1400
- B) Rs. 2400
D) Rs. 2000

Answer: B) Rs. 2400

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

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

Answer: B) $3r/8$

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

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

Answer: A) Centre of gravity

84. Who prepares the cost of estimation?

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

Answer: D) Estimator

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

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

Answer: D) Annealing

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

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

Answer: C) Stable

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

- A) Poisson's ratio
C) Linear strain
- B) Volumetric strain
D) Lateral strain

Answer: C) Linear strain

88. 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/mm^2 ? ($\pi = 22/7$)

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

Answer: B) 1571.4 N

89. Which authority publishes schedule of rates?

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

Answer: D) Government department

90. What is the estimation of milling cost of a rectangular

block size 100 X 80 X 60 mm, if cost of the milling is Rs.2/sq.cm?

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

Answer: A) Rs.752/-

91. Which is thermosetting plastic?

- A) Celluloid
C) Melamine resins
- B) Polystyrenes
D) Vinyl polymers

Answer: C) Melamine resins

92. What cables are used for 132KV lines?

- A) Extra super voltage
C) Extra high tension
- B) High tension
D) Super tension

Answer: A) Extra super voltage

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

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

Answer: C) $3r/8$

94. 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/cm^3)?

- A) 312 kg
C) 372 kg
- B) 525 kg
D) 410 kg

Answer: A) 312 kg

95. Which affects the centre of gravity of the object

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

Answer: C) Mass

96. Which is thermo plastic material?

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

Answer: D) Vinyl polymers

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

- A) Specification
C) Estimation
- B) Drawing
D) Plan

Answer: C) Estimation

98. 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) 0.0001968
C) 0.0001687
- B) 0.0001786
D) 0.0001867

Answer: B) 0.0001786