

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

Q. ID: ITISKILL5037CL

May 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 155 Mins

Total Marks: 50

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

- A) Tempering, Cooling, Packing and Solling
B) Normalising, Heating, Cooling and Painting
C) Annealing, Normalising, Hardening and Tempering
D) Hardening, Soaking, Painting and Packing

Answer: C) Annealing, Normalising, Hardening and Tempering

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

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

Answer: A) Stable

3. Which one is related to estimation of work?

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

Answer: A) Bill of material

4. 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) 0.0001867
C) 0.0001786
D) 0.0001968

Answer: C) 0.0001786

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

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

Answer: C) Unstable

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

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

Answer: B) At its centre

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

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

Answer: C) At the centre

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

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

Answer: C) Specification of materials

9. Which affects the centre of gravity of the object

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

Answer: D) Mass

10. What is a total cost?

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

Answer: A) Raw materials cost and machining cost

11. 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) 0.1
C) 0.001
D) 0.01

Answer: D) 0.01

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

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

Answer: C) Centre of gravity

13. What is the use of engineering drawing?

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

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

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

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

Answer: C) Quantity, availability and transportation of materials

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

A) 25 sq.mm

B) 5 sq.mm

C) 50 sq.mm

D) 100 sq.mm

Answer: C) 50 sq.mm

16. 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/-

17. 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

B) 125

kg/mm²

kg/mm²

C) 12500

D) 12.5 kg

kg/mm²

/mm²

Answer: C) 12500 kg/mm²

18. 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

19. What is an over estimate?

A) When an estimate perfectly matches the actual estimate

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

C) When an estimate is exceeded to actual estimate

D) No work started as per estimate

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

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

A) Carburising

B) Induction hardening

C) Nitriding

D) Case hardening

Answer: A) Carburising

21. Which is elastic material?

A) Celluloid

B) Nylon

C) Polycarbonates

D) Polystyrenes

Answer: B) Nylon

22. What is the purpose of tempering a steel?

A) To increase the hardness

B) To reduce the brittleness

C) To increase the brittleness

D) To remove the ductility

Answer: B) To reduce the brittleness

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

A) Annealing

B) Normalising

C) Hardening

D) Tempering

Answer: B) Normalising

24. 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.960/-

B) Rs.652/-

C) Rs.572/-

D) Rs.752/-

Answer: D) Rs.752/-

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

A) Ultimate stress

B) Yield point

C) Factor of safety

D) Young's modulus

Answer: A) Ultimate stress

26. Which one is included in machining estimation sheet?

A) Tax

B) Raw material cost

C) Transport cost

D) Advertisement cost

Answer: B) Raw material cost

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

A) Austenite

B) Cementite

C) Martensite

D) Ferrite

Answer: A) Austenite

28. Which is a kind of surface hardening process?

A) Cementite

B) Tempering

C) Nitriding

D) Ferrite

Answer: C) Nitriding

29. 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 last 5 years

C) Standard schedule of rates of the last year

D) Standard schedule of rates of the average of the last 10 years

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

30. Which force acts on crank shaft?

A) Torsional stress

B) Tensile stress

C) Shear stress

D) Compressive stress

Answer: A) Torsional stress

31. 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

Answer: B) Brown

32. Which process produce equilibrium conditions?

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

Answer: A) Annealing and Normalising

33. Which one is the ratio of stress?

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

Answer: B) Load and area

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

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

Answer: D) Sulphur

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

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

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

36. 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) 1577 N
B) 1757 N
C) 1575 N
D) 1571.4 N

Answer: D) 1571.4 N

37. 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.112
C) Rs.110
D) Rs.102

Answer: B) Rs.112

38. Which is thermosetting plastic?

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

Answer: C) Melamine resins

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

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

Answer: B) Triangle

40. 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. 2400
C) Rs. 2000
D) Rs. 3000

Answer: B) Rs. 2400

41. 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.265000/-
D) Rs.225000/-

Answer: A) Rs.275000/-

42. 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

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

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

Answer: B) $3r/8$

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

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

Answer: D) Triangle

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

- A) IE Rules, 1960
B) IE Rules, 1961
C) IE Rules, 1967
D) IE Rules, 1956

Answer: D) IE Rules, 1956

46. Who prepares the cost of estimation?

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

Answer: D) Estimator

47. What cables are used for 132KV lines?

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

Answer: B) Extra super voltage

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

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

Answer: A) Centre of gravity

49. What is the relative permittivity of rubber?

- A) Between 8 and 10
- B) Between 12 and 14

C) Between 5 and 6

D) Between 2 and 3

Answer: D) Between 2 and 3

50. What is a under estimate?

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

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