

ITI Quiz W/C - 01- Jul-2026 09:36 AM

Q. ID: ITISKILL3606LK

July 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 180 Mins

Total Marks: 50

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

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

Answer: D) Annealing, Normalising, Hardening and Tempering

2. Which force acts on rivets?

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

Answer: B) Shear force

3. Which one is the ratio of stress?

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

Answer: C) Load and area

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

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

Answer: D) 300%

5. 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.6,00,000 |
| C) Rs.60,00,000 | D) Rs.6,000,000 |

Answer: C) Rs.60,00,000

6. What is the unit of strain?

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

Answer: D) No unit

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

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

Answer: A) Nitriding in salt-bath

8. 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 |

Answer: A) 312 kg

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

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

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

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

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

Answer: D) h/4

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

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

Answer: A) Hardening

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

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

Answer: B) Ultimate stress

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

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

Answer: C) 5 minutes

14. 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 current year |
| C) Standard schedule of rates of the average of the last 10 years | D) Standard schedule of rates of the average of last 5 years |

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

15. What is a total cost?

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

Answer: A) Raw materials cost and machining cost

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

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

Answer: A) At the centre

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

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

Answer: B) Normalising

18. 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) 25 sq.mm D) 5 sq.mm

Answer: A) 50 sq.mm

19. Which hand book referred by machine engineer?

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

Answer: A) Mark standard

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

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

Answer: D) At its centre

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

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

Answer: A) delta l

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

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

Answer: B) Sulphur

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

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

Answer: B) Strain

24. Which force acts on crank shaft?

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

Answer: B) Torsional stress

25. What is the formula for bulk modulus?

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

Answer: A) Volumetric stress/Volumetric strain

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

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

Answer: A) Quantity, availability and transportation of materials

27. Which is thermo plastic material?

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

Answer: B) Vinyl polymers

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

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

Answer: D) $3r/8$

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

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

Answer: D) Unstable

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

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

Answer: C) Hooks law

31. Which authority publishes schedule of rates?

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

Answer: B) Government department

32. 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?

- Answer: D) 540 W**

A) 100
kg/mm²

B) 10 kg /mm²

C) 1000
kg/mm²

D) 1 kg/mm²

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

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

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

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

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

39. 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) Extra high tension B) Super tension
C) High tension D) Extra super voltage

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

A) 0.0001687 B) 0.0001968
C) 0.0001786 D) 0.0001867

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

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

45. 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. 12 lakhs B) Rs.10 lakhs
C) Rs. 15 lakhs D) Rs. 20 lakhs

A) Design book of latest works

B) Type of reference work or other collection of instruction

C) Dictionary of materials

D) Model book of various works

47. 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, Cables)

- A) Rs.265000/- B) Rs.225000/-
C) Rs.275000/- D) Rs.250000/-

A) Colour

C) Maintenance, Stock, Cost D) Quality, Quantity,
Workmanship, Method of
execution

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

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

- A) Centroid B) Initial point

C) Centre of gravity D) Central point

Answer: C) Centre of gravity

50. Which one is related to estimation of work?

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

Answer: B) Bill of material