

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

Q. ID: ITISKILL3606LK

July 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 180 Mins

Total Marks: 50

ID: ITISKILL3606LK

Student Name: _____

Roll No: _____

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

C) h/2

D) h/5

2. Which is elastic material?

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

3. What is a total cost?

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

4. What is the unit of strain?

- A) No unit
B) Newton/metre²
C) Metre
D) Kg/cm²

5. 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) 312 kg
B) 410 kg
C) 372 kg
D) 525 kg

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

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

7. 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. 12 lakhs
C) Rs. 20 lakhs
D) Rs. 15 lakhs

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

- A) h/3
B) h/4

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

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

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

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

11. 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

12. What is the relative permittivity of rubber?

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

13. Which is thermo plastic material?

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

14. 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

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

16. 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

17. What is the formula for bulk modulus?

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

18. 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) 0.0001867 | B) 0.0001786 |
| C) 0.0001968 | D) 0.0001687 |

19. 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 |

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

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

21. Which one is the most reliable estimate?

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

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

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

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

- | | |
|---------------|--------|
| A) l | B) e |
| C) Δl | D) L |

24. Which authority publishes schedule of rates?

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

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

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

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

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|-----------------|----------------|
| A) Newton's law | B) Hooke's law |
| C) Charles law | D) Joule's law |

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

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

28. Which one is the ratio of stress?

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

29. Which one is related to estimation of work?

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

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

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

31. 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 |

32. Which force acts on crank shaft?

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

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

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

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

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

35. 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 @ ₹400/day)

- | | |
|-------------|-------------|
| A) Rs. 2000 | B) Rs. 2400 |
| C) Rs. 1400 | D) Rs. 3000 |

36. 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.6,00,000 | B) Rs.60,00,000 |
| C) Rs.30,00,000 | D) Rs.6,000,000 |

37. Which hand book referred by machine engineer?

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

38. Which specification is other than general specification?

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

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

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

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

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

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

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

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

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

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

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

44. Which force acts on rivets?

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

45. 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

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

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

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

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

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

48. What cables are used for 132KV lines?

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

49. What is the use of engineering drawing?

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

50. What is a hand book?

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