

ITI Quiz - 15-Jun-2026

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Q. ID: ITISKILL8361RO

June 2026

Govt ITI HOLENARASIPURA

Question Paper

Duration: 30 Mins

Total Marks: 50

ID: ITISKILL8361RO

Student Name: _____ Roll No: _____

1. 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.6,00,000
- D) Rs.6,000,000

2. What is an over estimate?

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

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

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

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

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

5. 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

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

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

7. What is the ratio between stress and strain?

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

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

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

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

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

10. 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) 1571.4 N
- B) 1575 N
- C) 1757 N
- D) 1577 N

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

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

12. What is a hand book?

- 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

13. Which hand book referred by machine engineer?

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

14. 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

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

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

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

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

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

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

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

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

19. 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 |

20. Which affects the centre of gravity of the object

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

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

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

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

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

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

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

24. What are the various stages of heat treatment?

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

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

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

26. What is the purpose of tempering a steel?

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

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

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

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

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

29. Which specification is other than general specification?

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

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

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

31. 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 |

32. What is the young's modulus if a wire of 2m long, 0.8 mm^2 in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

- | | |
|---------------------------|----------------------------|
| A) 12.5 kg/mm^2 | B) 1.25 kg/mm^2 |
| C) 125 kg/mm^2 | D) 12500 kg/mm^2 |

33. What is the process of heat treatment?

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

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

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

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

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

36. 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 |

37. 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) 372 kg
- B) 410 kg
- C) 312 kg
- D) 525 kg

38. Which is thermosetting plastic?

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

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

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

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

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

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

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

42. 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.16700/-
- C) Rs.18700/-
- D) Rs.17700/-

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

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

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

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

45. What is the unit of strain?

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

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

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

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

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

48. 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) 0.0001786
- B) 0.0001687
- C) 0.0001968
- D) 0.0001867

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

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

50. 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. 20 lakhs
- C) Rs. 12 lakhs
- D) Rs.10 lakhs