

ITI Quiz - 29-May-2026

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Q. ID: ITISKILL55443H

May 2026

GOVT ITI MEN MANGALORE

Answer Key

Duration: 30 Mins

Total Marks: 50

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1. Which is elastic material?

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

Answer: B) Nylon

2. Which one is the ratio of stress?

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

Answer: B) Load and area

3. Which one is related to estimation of work?

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

Answer: B) Bill of material

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

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

Answer: D) Unstable

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

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

Answer: B) Triangle

6. What is the purpose of tempering a steel?

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

Answer: D) To reduce the brittleness

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

- A) $\frac{3r}{8}$ B) $\frac{4r}{5}$
C) $\frac{r}{2}$ D) $\frac{3r}{4}$

Answer: A) $\frac{3r}{8}$

8. 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. 1400 B) Rs. 2400
C) Rs. 2000 D) Rs. 3000

Answer: B) Rs. 2400

9. 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) 0.1 B) 0.001
C) 0.01 D) 0.0001

Answer: C) 0.01

10. 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) 340 W
C) 540 W D) 640 W

Answer: C) 540 W

11. 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

12. 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) 410 kg B) 525 kg
C) 372 kg D) 312 kg

Answer: D) 312 kg

13. What is the formula for bulk modulus?

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

Answer: D) Volumetric stress/Volumetric strain

14. 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/mm²? ($\pi = 22/7$)

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

Answer: A) 1571.4 N

15. Which process steel is heated in a carbonaceous

atmosphere for the penetration of carbon?

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

Answer: D) Carburising

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

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

Answer: C) Mass

17. Which force acts on rivets?

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

Answer: C) Shear force

18. Which is thermosetting plastic?

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

Answer: B) Melamine resins

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

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

Answer: A) Centre of gravity

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

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

Answer: B) 5 minutes

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

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

Answer: A) Annealing, Normalising, Hardening and Tempering

22. 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.16700/- D) Rs.17700/-

Answer: D) Rs.17700/-

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

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

Answer: C) Less than 5%

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

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

Answer: A) Ultimate stress

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

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

Answer: B) Linear strain

26. 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

27. 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) 125 B) 12500
kg/mm² kg/mm²
C) 12.5 kg D) 1.25
/mm² kg/mm²

Answer: B) 12500 kg/mm²

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

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

Answer: D) Hand book

29. What is an over estimate?

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

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

30. What are the various stages of heat treatment?

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

Answer: A) Heating, Soaking and Quenching

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

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

Answer: A) Stable

32. 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) 0.7
- C) 7
- D) 0.143

Answer: C) 7

33. Which one is included in machining estimation sheet?

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

Answer: A) Raw material cost

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

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

Answer: A) Estimation

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

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

Answer: C) 1875 gram

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

- A) Δl
- B) L
- C) l
- D) e

Answer: A) Δl

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

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

Answer: C) 300%

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

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

Answer: B) At the centre

39. Which is thermo plastic material?

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

Answer: A) Vinyl polymers

40. 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. 20 lakhs
- C) Rs. 12 lakhs
- D) Rs. 15 lakhs

Answer: D) Rs. 15 lakhs

41. Which force acts on crank shaft?

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

Answer: D) Torsional stress

42. 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

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

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

Answer: C) $3r/8$

44. 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 current year
- C) Standard schedule of rates of the average of last 5 years
- D) Standard schedule of rates of the last year

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

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

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

Answer: D) IE Rules, 1956

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

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

Answer: A) $h/4$

47. What is the use of engineering drawing?

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

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

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

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

Answer: B) Quantity, availability and transportation of materials

49. Which hand book referred by machine engineer?

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

Answer: D) Mark standard

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

- A) 100 kg/mm² B) 1000 kg/mm²
C) 1 kg/mm² D) 10 kg /mm²

Answer: D) 10 kg /mm²