

ITI Quiz - 15-Jun-2026

10:35 AM

Q. ID: ITISKILL8361RO

June 2026

Govt ITI HOLENARASIPURA

Answer Key

Duration: 30 Mins

Total Marks: 50

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1. What is the ratio between stress and strain?

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

Answer: D) Youngs Modulus

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

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

Answer: C) Less than 5%

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

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

Answer: C) Sulphur

4. 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) No work started as per estimate
- D) When an estimate is exceeded to actual estimate

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

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

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

Answer: C) Carburising

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

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

Answer: B) Ultimate stress

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

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

Answer: C) 50 sq.mm

8. What is a total cost?

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

Answer: B) Raw materials cost and machining cost

9. 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) 1575 N
- B) 1577 N
- C) 1571.4 N
- D) 1757 N

Answer: C) 1571.4 N

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

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

Answer: D) Centre of gravity

11. 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

12. What is the relative permittivity of rubber?

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

Answer: A) Between 2 and 3

13. 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. 12 lakhs
- C) Rs. 20 lakhs
- D) Rs.10 lakhs

Answer: A) Rs. 15 lakhs

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

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

Answer: A) Modulus of rigidity

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

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

Answer: B) Normalising

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

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

Answer: A) Centre of gravity

17. What are the various stages of heat treatment?

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

Answer: D) Heating, Soaking and Quenching

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

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

Answer: A) delta l

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

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

Answer: B) Stable

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

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

Answer: D) At the centre

21. Which specification is other than general specification?

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

Answer: B) Detailed specification

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

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

Answer: D) Nitriding in salt-bath

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

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

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

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

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

Answer: D) Strain

25. 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.60,00,000
C) Rs.6,00,000
- B) Rs.30,000,000
D) Rs.6,000,000

Answer: A) Rs.60,00,000

26. What is the process of heat treatment?

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

Answer: D) The process of heating and cooling to change the structure and properties

27. 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) 0.0001968
C) 0.0001867
- B) 0.0001786
D) 0.0001687

Answer: B) 0.0001786

28. What is the purpose of tempering a steel?

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

Answer: B) To reduce the brittleness

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

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

Answer: D) Information Table

30. Which is thermosetting plastic?

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

Answer: A) Melamine resins

31. What is a hand book?

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

Answer: B) Type of reference work or other collection of

instruction

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

Answer: D) At the centre

49. 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.17700/- B) Rs.16700/-
C) Rs.15000/- D) Rs.18700/-

Answer: A) Rs.17700/-

50. What is the unit of strain?

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

Answer: B) No unit
