

ITI Quiz W/C - 02- May-2026 01:16 PM

Q. ID: ITISKILL0369LF

May 2026

Answer Key

Duration: 155 Mins

Total Marks: 50

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1. What is the name of the structure formed, if a steel is heated for about 723 Degree C?

- A) Ferrite B) Austenite
C) Martensite D) Cementite

Answer: B) Austenite

2. 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) 1577 N
C) 1575 N D) 1757 N

Answer: A) 1571.4 N

3. Which hand book referred by machine engineer?

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

Answer: C) Mark standard

4. What cables are used for 132KV lines?

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

Answer: A) Extra super voltage

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

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

Answer: D) Less than 5%

6. What is the minimum permissible size of aluminium wire used in estimation?

- A) 3.5 sq.mm B) 5 sq.mm
C) 1.5 sq.mm D) 2.5 sq.mm

Answer: C) 1.5 sq.mm

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

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

Answer: C) Hand book

8. Which one is the most reliable estimate?

- A) Cube rate estimate B) Plinth area estimate

C) Detailed estimate

D) Preliminary estimate

Answer: C) Detailed estimate

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

A) Standard schedule of rates of the current year

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 average of the last 10 years

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

10. What is the process of heat treatment?

A) The process of cooling to measure the dimensions

B) The process of heating and bending as per our requirement

C) The process of heating and cooling to change the structure and properties

D) The process of heating to change the dimensions

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

11. Which is elastic material?

A) Nylon

B) Celluloid

C) Polystyrenes

D) Polycarbonates

Answer: A) Nylon

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

A) Specification

B) Estimation

C) Plan

D) Drawing

Answer: B) Estimation

13. What is the ratio between ultimate stress to working stress?

A) Bulk modulus

B) Modulus of rigidity

C) Young's modulus

D) Factor of safety

Answer: D) Factor of safety

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

A) Modulus of rigidity

B) Bulk modulus

C) Yield point

D) Modulus of elasticity

Answer: A) Modulus of rigidity

15. What is an over estimate?

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

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

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

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

Answer: B) Sulphur

17. Which force acts on rivets?

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

Answer: B) Shear force

18. 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. 15 lakhs
C) Rs.10 lakhs
D) Rs. 20 lakhs

Answer: B) Rs. 15 lakhs

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

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

Answer: D) $h/4$

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

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

Answer: C) Annealing

21. 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) 0.0001
B) 0.1
C) 0.001
D) 0.01

Answer: D) 0.01

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

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

Answer: B) $3r/8$

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

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

Answer: C) Price catalogue

24. Which one of the following geometrical shapes centre of gravity lies from its base is $1/3$ of its height?

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

Answer: B) Triangle

25. 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) 0.0001867
C) 0.0001968
D) 0.0001687

Answer: A) 0.0001786

26. What is the estimation of milling cost of a rectangular block size 100 X 80 X60 mm, if cost of the milling is Rs.2/sq.cm?

- A) Rs.652/-
B) Rs.572/-
C) Rs.960/-
D) Rs.752/-

Answer: D) Rs.752/-

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

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

Answer: D) 1875 gram

28. What describes the detailed specification for the item of work?

- A) Quality, Quantity, Workmanship, Method of execution
B) Tax, Transport, Overhead expenses
C) Colour
D) Maintenance, Stock, Cost

Answer: A) Quality, Quantity, Workmanship, Method of execution

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

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

Answer: B) Stable

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

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

Answer: A) 5 minutes

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

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

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

32. Which affects the centre of gravity of the object

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

Answer: D) Mass

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

- A) L B) Δl
C) l D) e

Answer: B) Δl

34. What is a under estimate?

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

Answer: C) An estimate is fell short of the actual estimate

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

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

Answer: C) $h/4$

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

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

Answer: C) 300%

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

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

Answer: A) 7

38. What is the total estimation cost for making the component of 8 drilled hole dia 10 mm and 4 Numbers of M6 taps in the plate, if Rs.8/- per drilled holes and Rs.12 per drill and tap?

- A) Rs.112 B) Rs.100
C) Rs.110 D) Rs.102

Answer: A) Rs.112

39. What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

- A) Brown B) Purple
C) Pale D) Blue

Answer: A) Brown

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

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

Answer: D) Linear strain

41. Which specification is other than general specification?

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

Answer: A) Detailed specification

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

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

Answer: C) Unstable

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

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

Answer: B) Unstable

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

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

Answer: B) Centre of gravity

45. Which force acts on crank shaft?

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

Answer: B) Torsional stress

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

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

Answer: B) 2.54 cm

47. What is the purpose of tempering a steel?

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

Answer: B) To reduce the brittleness

48. Which one is included in machining estimation sheet?

- A) Tax B) Raw material cost

C) Transport cost

D) Advertisement cost

Answer: B) Raw material cost

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

A) Any where on its diameter B) At its centre

C) Any where on its radius D) Any where on its circumference

Answer: B) At its centre

50. What is a hand book?

A) Dictionary of materials

B) Model book of various works

C) Design book of latest works

D) Type of reference work or other collection of instruction

Answer: D) Type of reference work or other collection of instruction