

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

Q. ID: ITISKILL0369LF

May 2026

Question Paper

Duration: 155 Mins

Total Marks: 50

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Student Name: _____ Roll No: _____

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

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

2. What is a hand book?

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

3. Which force acts on crank shaft?

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

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

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

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

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

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

7. Which hand book referred by machine engineer?

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

8. 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. 20 lakhs D) Rs.10 lakhs

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

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

10. What cables are used for 132KV lines?

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

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

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

12. 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.960/- B) Rs.572/-
C) Rs.752/- D) Rs.652/-

13. What is the purpose of tempering a steel?

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

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

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

15. What is an over estimate?

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

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

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

17. 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.102 B) Rs.100
C) Rs.112 D) Rs.110

18. Which affects the centre of gravity of the object

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

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

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

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

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

21. Which specification is other than general specification?

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

22. Which one is included in machining estimation sheet?

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

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

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

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

- A) δl B) l
C) e D) L

25. Which is elastic material?

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

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

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

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

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

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

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

29. 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) 0.01
C) 0.001 D) 0.0001

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

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

31. 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

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

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

33. What is a under estimate?

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

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

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

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

- A) Modulus of rigidity B) Factor of safety
C) Bulk modulus D) Young's modulus

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

- A) 400% B) 100%

C) 300%

D) 200%

C) Stable

D) Neutral

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

A) Tax, Transport, Overhead expenses

B) Quality, Quantity, Workmanship, Method of execution

C) Colour

D) Maintenance, Stock, Cost

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

A) 15 minutes

B) 10 minutes

C) 5 minutes

D) 20 minutes

39. 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) 0.7

C) 1.43

D) 0.143

40. Which force acts on rivets?

A) Shear force

B) Compressive force

C) Tensile force

D) Bending force

41. What is the process of heat treatment?

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

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

C) The process of heating to change the dimensions

D) The process of cooling to measure the dimensions

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

A) Bulk modulus

B) Modulus of elasticity

C) Yield point

D) Modulus of rigidity

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

A) Unstable

B) Horizontal

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

A) Blue

B) Purple

C) Pale

D) Brown

45. 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) 0.0001687

D) 0.0001968

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

A) Unstable

B) Neutral

C) Horizontal

D) Stable

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

A) 5 sq.mm

B) 2.5 sq.mm

C) 1.5 sq.mm

D) 3.5 sq.mm

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

A) Good book

B) Hand tool

C) New book

D) Hand book

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

A) Plan

B) Specification

C) Estimation

D) Drawing

50. Which one is the most reliable estimate?

A) Preliminary estimate

B) Detailed estimate

C) Plinth area estimate

D) Cube rate estimate