

# ITI Quiz W/C - 02- May-2026 01:04 PM

Q. ID: ITISKILL5037CL

May 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 155 Mins

Total Marks: 50

ID: ITISKILL5037CL

Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

1. 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) 0.001  
C) 0.1                              D) 0.01

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

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

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

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

4. 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  $50\text{N/mm}^2$ ? ( $\pi = 22/7$ )

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

5. Which is a kind of surface hardening process?

- A) Tempering                      B) Ferrite  
C) Cementite                      D) Nitriding

6. What is the use of engineering drawing?

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

7. Which is elastic material?

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

8. Which is thermosetting plastic?

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

9. Which one is the ratio of stress?

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

10. What is the total cost to assemble 10 personal computer systems, spares cost as given for one system: 1 TB hard disc Rs.4500/-, Intel i3 mother board Rs.7000/-, SMPS Rs.2500/-, monitor Rs.6000/-, keyboard Rs.1000/-, other material cost (Switches, USB, Cabl

- A) Rs.225000/-                      B) Rs.275000/-  
C) Rs.250000/-                      D) Rs.265000/-

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

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

12. Which force acts on crank shaft?

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

13. 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 @ Rs 400/day)

- A) Rs. 1400                        B) Rs. 2400  
C) Rs. 2000                        D) Rs. 3000

14. 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 the last 10 years                      D) Standard schedule of rates of the average of last 5 years

15. What is the ratio of ultimate load to area of original cross section?

- A) Factor of safety                      B) Young's modulus  
C) Ultimate stress                        D) Yield point

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

- A) Austenite                        B) Martensite

C) Ferrite

D) Cementite

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

A) 1.25 kg/mm<sup>2</sup>

B) 125 kg/mm<sup>2</sup>

C) 12500 kg/mm<sup>2</sup>

D) 12.5 kg/mm<sup>2</sup>

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

A) Drawing

B) Specification of materials

C) Price catalogue

D) Raw materials

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

A) Central point

B) Initial point

C) Centre of gravity

D) Centroid

20. What is the relative permittivity of rubber?

A) Between 12 and 14

B) Between 5 and 6

C) Between 8 and 10

D) Between 2 and 3

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

A) IE Rules, 1960

B) IE Rules, 1967

C) IE Rules, 1961

D) IE Rules, 1956

22. What is an over estimate?

A) When an estimate is fell short of the actual estimate

B) When an estimate is exceeded to actual estimate

C) When an estimate perfectly matches the actual estimate

D) No work started as per estimate

23. 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.16700/-

B) Rs.15000/-

C) Rs.17700/-

D) Rs.18700/-

24. What is a under estimate?

A) An estimate perfectly matches with actual

B) An estimate is fell short of the actual estimate

C) No work started as per estimate

D) An estimate is exceeded the actual estimate

25. Which one is included in machining estimation sheet?

A) Transport cost

B) Raw material cost

C) Advertisement cost

D) Tax

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

A) On the circumference

B) At the centre

C) At the radius

D) At the diameter

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

A) Annealing, Normalising, Hardening and Tempering

B) Hardening, Soaking, Painting and Packing

C) Tempering, Cooling, Packing and Solling

D) Normalising, Heating, Cooling and Painting

28. 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

29. Who prepares the cost of estimation?

A) Estimator

B) Quality Inspector

C) Operator

D) Draughts man

30. Which one of the following geometrical shape's centre of gravity lies from its base is 1/3 of its height?

A) Triangle

B) Cone

C) Square

D) Rhombus

31. Which one is related to estimation of work?

A) Bill of material

B) Information table

C) Packing

D) Hand book

32. Which affects the centre of gravity of the object

A) Weight

B) Density

C) Mass

D) Shape

33. What is a total cost?

A) Advertisement cost only

B) Raw material cost only

C) Raw materials cost and machining cost

D) Machining cost only

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

A) Brand of the materials

B) Location of material

C) Shape of material

D) Quantity, availability and transportation of materials

35. Which process produce equilibrium conditions?

A) Annealing and Normalising

B) Normalising and Tempering

C) Normalising and Tempering

D) Annealing and Hardening

36. 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.110
- C) Rs.112
- D) Rs.100

37. 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.960/-
- C) Rs.572/-
- D) Rs.752/-

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

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

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

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

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

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

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

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

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

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

43. 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) 0.0001867
- B) 0.0001786
- C) 0.0001687
- D) 0.0001968

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

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

45. What cables are used for 132KV lines?

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

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

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

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

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

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

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

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

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

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

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