

# TRINITY ITI UDYAVARA

## ITI Quiz - 07-Feb-2026 01:36 PM

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Attempt No.	#1	Completion Time	02:17 PM
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13 SCORE

25 MAX MARKS

13 CORRECT

12 INCORRECT

### Answer Review

Q1 **INCORRECT** Which affects the centre of gravity of the object

A. Weight

B. Mass

C. Density

D. Shape

Q2 **CORRECT** What is the name of the point at which all the weight of the body concentrated?

A. Initial point

B. Centre of gravity

C. Centroid

D. Central point

Q3 **CORRECT** Where the centre of gravity of a circle lies?

A. At its centre

B. Any where on its radius

C. Any where on its circumference

D. Any where on its diameter

Q4 **INCORRECT** What is the centre of gravity of a right circular cone from its base?

A.  $h/2$

B.  $h/3$

C.  $h/4$

D.  $h/5$

Q5 **CORRECT** What is the centre of gravity of a rectangular body?

A. Longer side of rectangle

B. Shorter side of rectangle

C. At the point of intersection of its diagonals

D. At the corners

Q6 **INCORRECT** What is the centre of gravity of a solid hemisphere from its base?

A.  $4r/5$

B.  $3r/8$

C.  $3r/4$

D.  $r/2$

Q7 **INCORRECT** What is the centre of gravity of a sphere?

A. At the centre

B. On the circumference

C. At the diameter

D. At the radius

Q8 **INCORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable

D. Horizontal

Q9 **CORRECT** Which one of the following geometrical shape's centre of gravity lies from its base is  $\frac{1}{3}$  of its height?

A. Square

B. Rhombus

C. Triangle

D. Cone

Q10 **INCORRECT** Which state of equilibrium's example is, A cone resting on its base?

A. Un-stable

B. Neutral

C. Stable

D. Bothe A and B

Q11 **INCORRECT** What is the centre of gravity of a semi circle of diameter 12 cm?

A. 2.24 cm

B. 2.54 cm

C. 3.25 cm

D. 2.75 cm

Q12 **CORRECT** What are the various types of heat treatment processes?

A. Annealing, Normalising, Hardening and Tempering

B. Normalising, Heating, Cooling and Painting

C. Hardening, Soaking, Painting and Packing

D. Tempering, Cooling, Packing and Solling

Q13 **CORRECT** What is the process of heat treatment?

A. The process of heating and cooling to change the structure and properties

B. The process of heating to change the dimensions

C. The process of cooling to measure the dimensions

D. The process of heating and bending as per our requirement

Q14 **CORRECT** What are the various stages of heat treatment?

A. Heating, Cooling and Quenching

B. Quenching, Cooling and Heating

C. Heating, Soaking and Quenching

D. Soaking, Quenching and Cooling

Q15 **INCORRECT** What is the name of the structure formed, if a steel is heated for about 723 Degree C?

A. Cementite

B. Austenite

C. Martensite

D. Ferrite

Q16 **INCORRECT** Which heat treatment process is done to refine the grain structure of the steel?

A. Annealing

B. Normalising

C. Hardening

D. Tempering

Q17 **CORRECT** What is the name of heat treatment process done to relieve strain and stress?

A. Normalising

B. Annealing

C. Hardening

D. Tempering

Q18 **CORRECT** Which process produce equilibrium conditions?

A. Annealing and Hardening

B. Normalising and Tempering

C. Annealing and Normalising

D. Normalising and Tempering

Q19 **INCORRECT** Which process steel is heated in a carbonaceous atmosphere for the penetration of carbon?

A. Case hardening

B. Nitriding

C. Carburising

D. Induction hardening

Q20 **CORRECT** Which is the suitable nitriding process for all alloyed and unalloyed steels?

A. Silver nitriding

B. Nitriding in salt-bath

C. Nitriding in Quenching tank

D. Gas nitriding

Q21 **INCORRECT** What is the name of the heat treatment process, where the metal is heated and quenched in water or oil?

A. Hardening

B. Normalising and Tempering

C. Annealing

D. Tempering

Q22 **INCORRECT** Which is a kind of surface hardening process?

A. Cementite

B. Ferrite

C. Nitriding

D. Tempering

**Q23** **CORRECT** How much time is allowed normally in soaking zone for a 10mm thick metal piece while hardening?

**A.** 5 minutes

**B.** 10 minutes

**C.** 15 minutes

**D.** 20 minutes

**Q24** **CORRECT** What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

**A.** Blue

**B.** Brown

**C.** Purple

**D.** Pale

**Q25** **CORRECT** What is the purpose of tempering a steel?

**A.** To reduce the brittleness

**B.** To remove the ductility

**C.** To increase the hardness

**D.** To increase the brittleness