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ITI Quiz - 10-Feb-2026 12:24 PM

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Attempt No.	#1	Completion Time	12:35 PM
Rank	#6	Total Questions	17

16 SCORE

17 MAX MARKS

16 CORRECT

1 INCORRECT

Answer Review

Q1 **CORRECT** 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 **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

Q5 **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

Q6 **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

Q7 **CORRECT** 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

Q8 **CORRECT** Which heat treatment process is done to refine the grain structure of the steel?

A. Annealing

B. Normalising ☒

C. Hardening

D. Tempering

Q9 **CORRECT** What is the name of heat treatment process done to relieve strain and stress?

A. Normalising

B. Annealing ☒

C. Hardening

D. Tempering

Q10 **CORRECT** Which process produce equilibrium conditions?

A. Annealing and Hardening

B. Normalising and Tempering

C. Annealing and Normalising ☒

D. Normalising and Tempering

Q11 **CORRECT** Which process steel is heated in a carbonaceous atmosphere for the penetration of carbon?

A. Case hardening

B. Nitriding

C. Carburising ☒

D. Induction hardening

Q12 **INCORRECT** 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 ☐

Q13 **CORRECT** 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

Q14 **CORRECT** Which is a kind of surface hardening process?

A. Cementite

B. Ferrite

C. Nitriding ☒

D. Tempering

Q15 **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

Q16 **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

Q17 **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