

Duration: 180 Mins

Total Marks: 14

ID: ITISKILL5621SK

Student Name: _____	Roll No: _____
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1. What is the name of heat treatment process done to relieve strain and stress?

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

2. 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

3. 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

4. Which process produce equilibrium conditions?

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

5. Which is a kind of surface hardening process?

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

6. What is the name of the heat treatment process, where the metal is heated and quenched in water or oil?

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

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

- A) Annealing, Normalising, Hardening and Tempering
B) Tempering, Cooling, Packing and Solling
C) Normalising, Heating, Cooling and Painting
D) Hardening, Soaking, Painting and Packing

8. What are the various stages of heat treatment?

- A) Heating, Soaking and Quenching B) Soaking, Quenching and Cooling
C) Quenching, Cooling and Heating D) Heating, Cooling and Quenching

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

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

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

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

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

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

12. Which is the suitable nitriding process for all alloyed and unalloyed steels?

- A) Nitriding in salt-bath B) Gas nitriding
C) Silver nitriding D) Nitriding in Quenching tank

13. What is the purpose of tempering a steel?

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

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

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