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Score: 5/14 (35.71%)

Code: 2553

1. 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 (Incorrect)

2. What is the process of heat treatment?

- A) The process of heating and cooling to change the structure and properties (Correct)** 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 are the various stages of heat treatment?

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

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

- A) Cementite **B) Austenite (Correct)**
- C) Martensite D) Ferrite

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

- A) Annealing **B) Normalising**
- C) Hardening D) Tempering (Incorrect)

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

- A) Normalising (Incorrect) **B) Annealing**
- C) Hardening D) Tempering

7. Which process produce equilibrium conditions?

- A) Annealing and Hardening B) Normalising and Tempering

C) Annealing and Normalising (Correct)

D) Normalising and Tempering

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

- A) Case hardening B) Nitriding
- C) Carburising** D) Induction hardening (Incorrect)

9. 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 (Incorrect) D) Gas nitriding

10. 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 (Incorrect) D) Tempering

11. Which is a kind of surface hardening process?

- A) Cementite (Incorrect) B) Ferrite
- C) Nitriding** D) Tempering

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

- A) 5 minutes** B) 10 minutes (Incorrect)
- C) 15 minutes D) 20 minutes

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

- A) Blue **B) Brown (Correct)**
- C) Purple D) Pale

14. What is the purpose of tempering a steel?

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