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Score: 14/14 (100.00%)

Code: 7378

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

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

C) Annealing and Normalising (Correct)

D) Normalising and Tempering

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

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

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

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

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

3. What are the various stages of heat treatment?

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

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

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

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

11. Which is a kind of surface hardening process?

- C) Nitriding (Correct)**
- A) Cementide
- B) Ferrite
- D) Tempering

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

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

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

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

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

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

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

7. Which process produce equilibrium conditions?

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

14. What is the purpose of tempering a steel?

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