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Score: 2/17 (11.76%)

Code: 6507

1. Which affects the centre of gravity of the object?

- A) Weight
C) Density (Incorrect)
- B) Mass
D) Shape

2. What is the name of the point at which all the weight of the body concentrated?

- A) Initial point
C) Centroid
- B) Centre of gravity
D) Central point (Incorrect)

3. Where the centre of gravity of a circle lies?

- A) At its centre
C) Any where on its circumference (Incorrect)
- B) Any where on its radius
D) Any where on its diameter

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

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

5. What is the process of heat treatment?

- A) The process of heating and cooling to change the structure and properties
C) The process of cooling to measure the dimensions
- B) The process of heating to change the dimensions
D) The process of heating and bending as per our requirement (Incorrect)

6. What are the various stages of heat treatment?

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

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

- A) Cementide
C) Martensite
- B) Austenite (Correct)
D) Ferrite

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

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

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

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

10. Which process produce equilibrium conditions?

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

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

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

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

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

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

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

14. Which is a kind of surface hardening process?

- A) Cementide
C) Nitriding
- B) Ferrite
D) Tempering (Incorrect)

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

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

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

- A) Blue
C) Purple
- B) Brown
D) Pale (Incorrect)

17. What is the purpose of tempering a steel?

**A) To reduce the
brittleness (Correct)**

B) To remove the ductility

C) To increase the hardness D) To increase the brittleness
