

# Monthly Test WCS

## april 2026

Q. ID: ITISKILL3363DE

April 2026

GOVT ITI VITTLA

Answer Key

Duration: 30 Mins

Total Marks: 10

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

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

**Answer: A) Brown**

2. What is the purpose of tempering a steel?

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

**Answer: C) To reduce the brittleness**

3. What are the various stages of heat treatment?

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

**Answer: A) Heating, Soaking and Quenching**

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

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

**Answer: B) Austenite**

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

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

**Answer: D) Annealing**

6. Which process steel is heated in a carbonaceous

atmosphere for the penetration of carbon?

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

**Answer: B) Carburising**

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

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

**Answer: B) 5 minutes**

8. Which is a kind of surface hardening process?

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

**Answer: D) Nitriding**

9. Which process produce equilibrium conditions?

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

**Answer: B) Annealing and Normalising**

10. What is the process of heat treatment?

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

**Answer: D) The process of heating and cooling to change the structure and properties**