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1) In metallography, microscopic method provides information about \_\_\_\_\_

- a. impurities in a metal
- b. location and extent of segregation
- c. uniformity of structure
- d. all of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: impurities in a metal**

**Explanation:**

No explanation is available for this question!

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2) The study of metallographic includes \_\_\_\_\_

- a. alloy constituents
- b. failure analysis
- c. metal structure
- d. all of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: all of the above**

**Explanation:**

No explanation is available for this question!

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3) In microscopy, which illumination parameter is used for producing images with dark non structure and bright back ground?

- a. Bright field illumination
- b. Dark field illumination
- c. Both a. and b.
- d. None of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: Bright field illumination**

**Explanation:**

No explanation is available for this question!

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**4) What is meant by recalescence in cooling curves?**

- a. Time required for liquefying solid components
- b. Time required for completely solidifying the casted components
- c. The cooling curve formed due to latent heat of fission
- d. Liberated heat increases temperature of an under cooled liquid metal during nucleation

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: Liberated heat increases temperature of an under cooled liquid metal during nucleation**

**Explanation:**

No explanation is available for this question!

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**5) The cooling curve formed when a material is solidified due to latent heat of fusion is called \_\_\_\_\_.**

- a. Undercooling
- b. Solidification
- c. Thermal arrest
- d. Thermometry

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: Thermal arrest**

**Explanation:**

No explanation is available for this question!

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**6) Austenite phase in Iron-Carbon equilibrium diagram \_\_\_\_\_**

- a. is face centered cubic structure
- b. has magnetic phase
- c. exists below 727 °C
- d. all of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: is face centered cubic structure**

**Explanation:**

No explanation is available for this question!

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**7) What is the crystal structure of  $\delta$ -ferrite?**

- a. Body centered cubic structure
- b. Face centered cubic structure
- c. Orthorhombic crystal structure
- d. None of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: Body centered cubic structure**

**Explanation:**

No explanation is available for this question!

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**8) Which of the following phases has a complex orthorhombic crystal structure?**

- a.  $\delta$ -ferrite
- b.  $\alpha$ -ferrite
- c. Austenite
- d. Cementite

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: Cementite**

**Explanation:**

No explanation is available for this question!

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**9) In Iron-Carbon equilibrium diagram, at which temperature cementite changes from ferromagnetic to paramagnetic character?**

- a. 190 °C
- b. 210 °C
- c. 276 °C
- d. None of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: 210 °C**

**Explanation:**

No explanation is available for this question!

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**10) Which of the following statements is/are true about Iron in Iron-Carbon equilibrium diagram?**

1. It is soft and ductile
2. It is allotropic in nature
3. It is magnetic above curie temperature
4. Below the temperature of 1539 °C, iron is in liquid state

- a. 1 and 2
- b. 2 and 3
- c. 3 and 4
- d. All of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: 1 and 2**

**Explanation:**

No explanation is available for this question!

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**11) Which transformation starts after the nucleation of ferrite phase?**

- a. Bainite transformation
- b. Pearlite transformation
- c. Both a. and b.
- d. None of the above

[Answer](#) [Explanation](#) [Related Ques](#)

**ANSWER: Bainite transformation**

**Explanation:**

No explanation is available for this question!

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