

Metallurgical Engineering Quiz Questions and Answers Pdf

1. A p-type germanium semi-conductor is doped with

- a. Silicon
- b. Arsenic
- c. Gallium
- d. Selenium

Ans: A

2. Surface hardness of materials is improved by

- a. Spheroidising
- b. Carburising
- c. Tempering
- d. Process annealing

Ans: B

3. Which of the following materials has the highest specific heat?

- a. Aluminium
- b. Concrete
- c. Polyethylene
- d. Water

Ans: D

4. Which one of the following metals has the lowest density?

- a. Aluminium
- b. Copper
- c. Magnesium
- d. Tin

Ans: C

5. Which of the following has the lowest melting point?

- a. Aluminium
- b. Lead
- c. Tin
- d. Zinc

Ans: D

6. Of the polymer type, which one is the most important commercially?

- a. Thermoplastics
- b. Thermosets
- c. Elastomers
- d. Synthetic fibres

Ans: A

7. Total solidification time is defined as which one of the following?

- a. Time between pouring and complete solidification
- b. Time between pouring and cooling to room temperature

- c. Time between solidification and cooling to room temperature
- d. Time to give up the heat of fusion

Ans: A

8. Which of the following metals would not typically be die casted?

- a. Aluminium
- b. Cast iron
- c. Tin
- d. Zinc

Ans: B

9. Which one of the following compounds becomes a plastic and formable material when mixed with suitable proportions of water?

- a. Aluminium oxide
- b. Hydrogen oxide
- c. Hydrated aluminium silicate
- d. Silicon dioxide

As: C

10. Cast cobalt alloys typically contain which of the following main ingredient?

- a. Aluminium
- b. Cobalt
- c. Chromium
- d. Tungsten

Ans: A

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