Quiz

ANSWER KEY

QUIZ NO: 793

TOPIC: STEEL STRUCTURES

DATE: 16/01/2024

1. ....is the most important element which controls the physical properties of steel

   [A] Carbon

   [B] Chromium

   [C] Vanadium

   [D] Tungsten

   Answer: A

2. Which one of the following will decrease when the percentage of carbon increases?

   [A] Hardness

   [B] Ductility

   [C] Ultimate strength

   [D] % of cementite

   Answer: B

3. **Out of the following mild steel section, the most economical section is:**

   [A] I section

   [B] Circular section

   [C] Rectangular section

   [D] Channel section

   Answer: A

4. **Stainless steel is an alloy of:**

   [A] Chromium, Nickel and iron

   [B] Manganese, Copper and iron

   [C] Copper, Carbon and iron

   [D] Copper, Zinc and iron

   Answer: A

5. **The purest form of iron is:**

   [A] Pig iron

   [B] Wrought iron

   [C] Cast iron

   [D] None of the above

   Answer: B

6. **The Modulus of elasticity of steel has a value of:**

    [A] 2.1×10^5 N/mm^2

    [B] 2.1×10^7 N/mm^2

    [C] 4.1×10^5 N/mm^2

    [D] 4.1×10^7 N/mm^2

    Answer: A

7. **The carbon content in structural steel is:**

    [A] less than 0.15%

    [B] 0.10 to 0.25 %

    [C] 0.25 to 0.60 %

    [D] 0.60 to 1.00 %

    Answer: B

8. **The average value of yield stress for mild steel is:**

    [A] 250 N/mm^2

    [B] 140 N/mm^2

    [C] 340 N/mm^2

    [D] 400 N/mm^2

    Answer: A

9. Bessemer process is used for the manufacture of:

[A] Pig iron

[B] Wrought iron

[C] Cast iron

[D] Steel

Answer: D

10. The permissible axial tensile stress for the grade of steel having f_y = 250 N/mm^2 is

[A] 150 N/mm^2

[B] 100 N/mm^2

[C] 200 N/mm^2

[D] 250 N/mm^2

Answer: A

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