Assignment 3

The due date for submitting this assignment has passed. As per our records, you have not submitted this assignment.

1. Select proper wrought iron for the specified applications in the following conditions:
   - Polishing, engraving, etc.
   - Machining, cutting, etc.
   - Strengthening, welding, etc.
   - Electrical conductivity, magnetic properties, etc.
   - None of the above

2. The fracture toughness of a metal depends on:
   - Grain size
   - Overall density
   - None of the above

3. Select the appropriate wear-resistant material for automotive applications where wear resistance and hardness are critical.

4. Select the appropriate wear-resistant material for the given application conditions in the following:
   - High wear, high modulus, low density and low compressive strength
   - High wear, high compressive strength, high modulus and low density
   - High wear, high compressive strength, high modulus and low density
   - High wear, high compressive strength, high modulus and low density

5. The formation of stable dense hydrous magnesium carbonate (DHMC) layer in Mg-GC composite:
   - None of the above
   - Alumina
   - Oxide
   - None of the above

6. Identify the correct answer:
   - None of the above
   - Oxide
   - Alumina
   - None of the above

7. The formation of stable dense hydrous magnesium carbonate (DHMC) layer in Mg-GC composite:
   - None of the above
   - Alumina
   - Oxide
   - None of the above

8. Select the appropriate wear-resistant material for the given application conditions in the following:
   - High wear, high modulus, low density and low compressive strength
   - High wear, high compressive strength, high modulus and low density
   - High wear, high compressive strength, high modulus and low density
   - High wear, high compressive strength, high modulus and low density

9. The formation of stable dense hydrous magnesium carbonate (DHMC) layer in Mg-GC composite:
   - None of the above
   - Alumina
   - Oxide
   - None of the above

10. Select the appropriate wear-resistant material for the specified applications in the following conditions:
    - Polishing, engraving, etc.
    - Machining, cutting, etc.
    - Strengthening, welding, etc.
    - Electrical conductivity, magnetic properties, etc.
    - None of the above