

ME 8491 Engineering Metallurgy
Important 2mark questions

Unit I

1. Differentiate an alloy from pure metal.
2. State the reaction that initiates the formation of Austenite in iron-iron carbon diagram.

Unit II

1. Define hardenability of a material.
2. Why is the full annealing of a steel component performed?

Unit III

1. List two important types of fracture.
2. What is the prominent mechanism of plastic deformation in metals and define it?

Unit IV

1. List the major alloying elements of the aluminium alloys 6061 and 7075.
2. Cite two reasons for the extensive usage of ferrous alloys in engineering applications.

Unit V

1. List two important engineering ceramics used in the high temperature applications.
2. Why is the use of composites increasing over metallic alloys in aerospace industries?