

MECHANICAL ENGINEERING

Paper-I

1. The $[110]$ direction in a cubic unit cell is parallel to the following :
 - (a) Face diagonal of unit cell
 - (b) Edge of the cube
 - (c) Body diagonal of the cube
 - (d) None of the above
2. When mechanical properties of a material remain same in all directions at each point, such a material is called
 - (a) Isotropic
 - (b) Homogenous
 - (c) Orthotropic
 - (d) Anisotropic
3. German silver is an alloy of
 - (a) Silver and Tin
 - (b) Silver and Gold
 - (c) Nickel and Copper
 - (d) Nickel, Copper and Zinc
4. Iron is Face Centered Cubic (FCC) at which one of the following temperatures ?
 - (a) Room temperature
 - (b) 1400°C
 - (c) 910°C
 - (d) None of the above
5. Babbitt metal is an alloy of which one of the following ?
 - (a) Lead and Tin
 - (b) Lead and Magnesium
 - (c) Tin and Bismuth
 - (d) None of the above
6. Griffith theory of failure is suitable for
 - (a) Mild Steel
 - (b) Low Carbon Steel
 - (c) Alloy Steel
 - (d) Glass

Mechanical Engineering Papers

Xiaolong Qi



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