

Strength of Materials

Important 2mark questions

1. State the properties of moulding sand.
2. Enumerate any two microstructures of steel.
3. Give the main advantages of hydraulic press.
4. What are the methods of manufacturing metal powders?
5. List out any two lathe tools.
6. Define angle friction.
7. Define poisson's ratio.
8. Write torsion equation.
9. Define neutral axis.
10. Define creep.
11. State Hooke's law.
12. List out the stresses, induced in thin cylindrical shells.
13. Define polar modulus.
14. List the various types of springs.
15. What is beam?

Important 3mark questions

1. State the limitations of gas welding.
2. List the hot working operations.
3. Name the types of lathe centres. Sketch a half centre.
4. State the relationship between load, force and bending moment at a section.
5. Derive polar modulus for (I) Solid shaft (II) hollow shaft
6. Explain external and internal forces.
7. Define co-efficient of friction.
8. What is centroidal axis and axis of reference?
9. Write down the assumptions made in theory of pure torsion.
10. Compare closely coiled and open coiled helical spring.