

Important question (UNIT WISE)

No.

Date

UNIT-ONE (MATERIALS).

1. Classification of engg. materials.
2. What are the properties of engg. materials.
3. Explain Stress-Strain Diagram for mild steel.
4. Draw neat sketch of iron-Carbon (Fe-C) Composition.
5. What are the effects of alloying element.
6. Explain in brief, various types of hardness test.

UNIT-TWO (MEASUREMENT).

1. Explain the principle of vernier and micrometer.
2. Explain Sine bar and Combination Set.
3. Write short notes on lathe machine and its operations.
4. Define the following terms.
a) Drilling b) Reaming c) boring d) Counter boring
5. Write short notes on.
i) Casting. ii) Carpentry & its tools.
iii) Consumable and non Consumable electrodes.
6. Describe the following.
a) Venturimeter
b) oxy-Acetylene welding
c) Advantage of Arc Welding over gas welding
explain working Principle of RTD.

UNIT-THREE (FLUIDS).

MISCELLANEOUS QUESTIONS UNIT I & II

Q.1 Give in brief composition, properties and uses of different types of Cast Iron?

Q.2 Explain -

- (a) Hardness; (b) Toughness; (c) Elasticity
- (d) Creep; (e) Fatigue

Q.3 Difference between (a) Pyrometers; (b) RTD and (c) Thermocouple?

Q.4 : Provide construction and use of Sine Bar?

Q.5 : What is welding? Define with neat sketch difference between gas welding and arc welding?

Q.6 Given in details of Hardness and Impact testing of material?

Q.7 What is difference between Vernier caliper and micrometer?