

Question Bank (G scheme)

Name of subject:MECHANICAL ENGINEERING MATERIAL

Subject code: 17303

Semester: III

Unit Test :II

Course : ME

Chapter4 Steels and cast irons

3 mark questions

- 1) Explain the terms (a)Alloy steels (b) Tool steels
- 2) Give the classification of Tool steels.
- 3) Give the classification of Steels.

- 4) State the effect of following alloying elements (i) Chromium (ii) Nickel
- 5) State the effect of following alloying elements (i) Tungstan (ii) Molybden

4 mark questions

- 6) State and explain steels which are used as Tool Steels.
- 7) What did you mean by 18:4:1 tool steels? Where it is used?
- 8) What is mean by HSS? What are its characterstics?
- 9) State any 4 properties and uses of stainless steels.

Chapter 5 Non ferrous metals and alloys

3 mark questions

- 10) Give the composition of Muntz metal and Gun metal
- 11) Give 2 applications of the following (i)Brass (ii)Bronze (iii)Gun metal
- 12) What is Y –alloy? State its uses.
- 13) Give applications and chemical composition of Duralumin.

4 mark questions

- 14) State the properties and uses of Copper
- 15) State the properties and uses of Aluminium.
- 16) Explain porous self lubricated bearings
- 17) What are the desirable properties of bearing materials. List the materials used for bearing

Chapter 6 Non Metallic Materials

3 mark questions

- 18) State the properties of ceramics.
- 19) What do you mean by thermosetting plastics?
- 20) What are the different types of elastomers?

4 marks Questions

- 21) What is composite material? Give one example.
- 22) What is Rubber ? Give its types, properties and applications
- 23) What are the applications of glass wool?

Chapter 7 Powder Metallurgy and Nondestructive Testing

3 mark questions

- 24) What is mean by powder metallurgy?
- 25) What are advantages and limitations of powder metallurgy.
- 26) What are the steps in powder metallurgy?

4 mark questions

- 27) What is blending ? How it is achieved?
- 28) Explain in brief liquid penetrant test.
- 29) What are the advantages and disadvantages of NDT?

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