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238614 (38)

Dip. In Engg. (6th Semester)
Examination, May-June, 2011

Branch : Mett.

ENGINEERING MATERIAL

Time Allowed : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : All questions carry equal marks. Attempt any five questions.

Q. 1. (a) What is the difference between plain carbon steel and alloy steel? How they are classified? Give brief classification. **8**

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(b) What are the limitation of plain carbon steel? **6**

(c) What are the effect of alloying elements in steel? **6**

Q. 2. Write composition properties and use of the following :

(i) Stainless steel **10**

(ii) High speed steel **10**

Q. 3. (a) Explain with detail the different types of cast iron with their properties and use. **15**

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(3)

(b) What is wrought iron? Give its properties and use. 5

Q. 4. Differentiate between Brass and Bronze. Write detailed classification of Brasses and Bronzes with their use. 20

Q. 5. (a) Explain Duralumin and Y alloys, their composition, properties & uses. 10

(b) What are bearing metals? Explain the different composition of bearing metals, properties & uses. 10

Q. 6. (a) Draw the phase diagram of Al-Si alloys system. Discuss important alloy of Al-Si with their properties and use. 10

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(4)

(b) Discuss properties, composition & uses of Al-Cu alloys. 10

Q. 7. Write short notes on (any four) : 5×4=20

(i) Bell Metal

(ii) Invar

(iii) Composites

(iv) German Silver

(v) Babbitts.

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