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(2126)

16002(D) 2011

B. Tech 1st Semester Examination

Workshop Technology (CBS)

ME-103

Time : 3 Hours

Max. Marks : 40

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all and question no. 8 is compulsory and is short answer type. Missing data, if any, can be assumed suitably. All questions carry equal marks.

1. (a) What should be the properties to be good engineering material?
(b) Write down the properties and applications of stainless steel. (8)
2. (a) Compare the hot and cold working processes.
(b) Describe the process of hot extrusion of tubes. (8)
3. Explain the various characteristics of foundry sands. Also explain the composition of foundry sands. (8)
4. (a) List down the marking and measuring tools and describe with sketches any three of them.
(b) Explain in brief Dowel, lap and grooved joints. (8)
5. Explain the working of a lathe machine. What are the various operations that may be performed on lathe? (8)

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6. (a) Classify the common welding processes.
(b) Explain in brief the various types of flames in welding process. (8)
7. (a) Compare the NC and CNC machines.
(b) Explain the commonly used fitting tools. (8)
8. (a) Classify the engineering materials.
(b) Mention any two applications of forming.
(c) What are the additives for sands?
(d) Sketch the centre bit.
(e) Explain the working principle of planer.
(f) What is brazing?
(g) Define a manufacturing system.
(h) Write any two comparison of metals and non metals. (8×1=8)