

18029(M)

B. Tech 2nd 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. All questions carry equal marks.

1. (a) Write down the properties and applications of Wrought iron.  
(b) Define Steel. How it can be classified? (8)
2. (a) What is cold working of metals? How it differs from hot working?  
(b) Discuss the hot drawing process. (8)
3. (a) What are the basic features common to various casting processes?  
(b) Explain in brief the steps used in preparation of moulding sand. (8)
4. Explain in brief with neat sketches any four cutting tools used in carpentry shop. (8)
5. (a) What is the fundamental difference between Planer and Shaper?

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- (b) Discuss with neat sketches the function of the following lathe parts:  
(i) Tail stock (ii) Bed (8)
6. (a) What are the safety precautions associated with Arc welding?  
(b) Discuss the principle of resistance welding. What are its advantages and disadvantages? (8)
7. (a) Sketch and describe engineers Try Square.  
(b) Give comparison between NC and CNC machines. (8)
8. (a) Define the term "Mould".  
(b) Name any two types of hammers used in carpentry shop.  
(c) What is Brazing?  
(d) Write any two general properties of cast iron.  
(e) What is the point angle of dot punch?  
(f) \_\_\_\_\_ is the operation of enlarging an existing hole.  
(g) What is Extrusion?  
(h) What is the function of flux in gas welding? (8×1=8)