

**ME-1850**  
**B.Tech (Semester-I) Examination-2018**  
**Manufacturing Process**

*Time: Three Hours*

*Maximum Marks :50*

**Note:** Attempt questions from all the sections.

**Section-A**

**(Short Answer Type Questions)**

**Note:** Attempt any ten questions. Each question carries 2 marks. (10x2=20)

1. What are the tests which are performed on UTM?
2. Explain the phenomena of fatigue.
3. Discuss various types of Alloy steel.

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4. What is major difference between steel and cast iron?
5. Write Extrusion process.
6. Write different types of forging methods.
7. What is recrystallisation?
8. Differentiate between hot working and cold work processes?
9. What is Punching and Blanking?
10. Write different pattern materials with their advantages
11. What is Centrifugal casting?
12. What is turning process and their types?
13. Write different types of metal cutting process.



14. Give brief classification of various joining process.
15. What is welding electrodes and their application.

#### Section-B

#### (Long Answer Type Questions)

**Note:** Attempt any two questions. Each question carries 15 marks.  
(15x2=30)

1. Explain Oxy acetylene welding process with explanation welding equipment and how it is differ from other welding process.
2. (a) How is a lathe machine specified? Also enlist various operations that can be performed on this machine?  
(b) With a help of neat sketch show the various parts of Drilling machine.

3. (a) Write and explain various casting defects along with their remedies.
  - (b) Explain Cupola furnace in detail with neat sketch.
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4. (a) What are the major uses of Coppers? What are alloying elements in brass and bronze respectively.
  - (b) Draw a neat sketch of stress and strain. Curve of mild steel with explanation of their each points.