

Code No: R22034

R10**SET - 1****II B. Tech II Semester Supplementary Examinations, April/May - 2017****PRODUCTION TECHNOLOGY**

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. a) What points should the casting designer consider while designing a casting?  
b) Explain briefly the shrinkage allowance.
2. a) What are the advantages and limitations of cupola.  
b) Write a short note on solidification of metals.
3. a) What are the design aspects of a weldment? Explain.  
b) Explain Upset butt welding with a neat sketch.
4. a) Distinguish between soft solder and hard solder.  
b) Explain friction welding with a neat sketch.
5. a) What are the differences between recovery and recrystallization? Explain.  
b) Explain briefly various defects in rolling.
6. a) Explain wire drawing process with a neat sketch.  
b) Discuss the following:
  - i) Blanking
  - ii) Piercing
7. a) What is roll forging? How is it done?  
b) Describe the common types of forging hammers.
8. a) What are merits of plastics? Explain.  
b) Explain Injection Moulding with a neat sketch and its applications.