

First Terminal Examination September 2008
B.Tech. (First Semester)
Manufacturing processes (ETME-107)

Time 1:30 Hrs.

Max.Marks : 30

Note: Answer three questions. Question no. 1 is compulsory

- Q 1 a) Name at least eight engineering materials commonly used in manufacturing of components in industries. (2)
- b) Define Pattern, Mould and castings with suitable example. (2)
- c) Name six elements of a gating system in the mould. (2)
- d) Name four casting defects with their possible causes and remedy. (2)
- e) Enlist any eight smithy tools with their uses. (2)
- Q2 a) Name at least eight types of pattern. With the help of suitable sketch describe match plate pattern with its advantages and applications. (2+3)
- b) Name four types of molding technique. Write the procedural steps of the molding technique that you are adopting in your workshop practice lab. Give suitable diagrams in support of your answer. (1+4)
- Q.3 a) Write the purpose of cupola. With the help of suitable sketch describe the construction detail of the cupola. (1+4)
- b) Describe investment casting process with its advantages and applications. (5)
- Q4 a) With the help of suitable sketches write the steps involved in manufacturing of a hexagonal bolt head in smithy shop. List the name of tools used in this process. (4+2)
- b) State the difference between Hammer and press forging. (4)