

1129  
B.E. (Mechanical Engineering)  
Fifth Semester  
MEC-505: Manufacturing Technology –II

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Define briquetting and sintering.
- b) Name various devices for location and clamping
- c) Draw the various methods of holding punches.
- d) Name the different polymerization process.
- e) Write the differences between lapping and polishing. (5x2)

UNIT – I

- II. a) Explain bevel gear cutting process.
- b) Explain various forms of gear teeth with neat diagram. (5,5)
- III. a) Write the advantages and limitation of powder metallurgy.
- b) Explain various methods of punch support. (5,5)
- IV. a) Explain the indexing device with diagram.
- b) Explain milling fixture and also write their classifications (5,5)

UNIT – II

- V. a) Explain various process parameters affect the design of die blocks.
- b) Explain the design procedure of various dies for press tool operation. (5,5)
- VI. a) How the properties of a polymer can be changed by combining with additives? Explain the roll of various additives.
- b) Explain compression molding method with neat diagram (5,5)
- VII. a) Explain Galvanizing and Honing.
- b) Write short notes on:-
  - i) Form tools
  - ii) Tool economics (5,5)

x-x-x