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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (IE) (Sem.-4) (2008 & 2009 Batches)

B.Tech. (ME) (Sem.-4)

MANUFACTURING PROCESS-II

Subject Code : ME-210

Paper ID : [A0812]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- (a) List five forging defects.
- (b) Give the names of various rolling methods.
- (c) Differentiate between edge bending and V-bending.
- (d) Differentiate between mechanical and hydraulic press.
- (e) What is the advantage of flute in a twist drill.
- (f) List five functions of coolants in metal cutting.
- (g) Differentiate between up milling and down milling.
- (h) Differentiate between cylindrical and surface grinding.
- (i) How is piercing different from blanking.
- (j) What is use of briquetting in Powder Metallurgy ?

SECTION-B

2. Briefly discuss the main variables in drawing operations.
3. Giving the geometry of single point cutting tool, describe the function of various angles.
4. Differentiate between the mechanism of compound and differential indexing.
5. What is meant by the kinematic scheme for a lathe machine ? Discuss the progression values commonly used.
6. What are the various elements of press working tools ? Discuss giving a neat sketch.

SECTION-C

7. Discuss the process of hammer forging and drop forging giving its essential elements and their influence on the process.
8. What are the various methods of producing metal powder ? Describe the relevant sketches.
9. Classify the various types of Lubricants. Discuss the common lubricants giving their function and properties.