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**Total No. of Pages: 02**  
**Total No. of Questions: 09**

**B. Tech. (IE, ME)(Sem.4<sup>th</sup>)**  
**MANUFACTURING PROCESS-II**

**Subject Code: ME 210**

**Paper ID-A0812**

**Time: 3 Hrs.**

**Max. Marks: 60**

**INSTRUCTION TO THE 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 student has to attempt any FOUR questions.*
3. *Section C contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.*

**SECTION-A**

1. Write briefly:
  - (a) What is rolling?
  - (b) Define forging?
  - (c) Define extrusion process?
  - (d) Define deep drawing?
  - (e) What are CBN?
  - (f) List the parts of a shaper machine?
  - (g) What is counter boring?
  - (h) What is broach?
  - (i) What is die diameter for wire drawing operation?
  - (j) What is clearance angle of single point cutting tool?

**SECTION-B**

2. What are the purpose of lubricants and coolants?
3. Draw and explain the constructional features of a surface grinder?
4. Write the specifications of a milling machine?
5. Differentiate between press forging and drop forging?
6. Write down the list of ten press working operations? Also draw their sketches.

### **SECTION-C**

7. (a) Differentiate between hot and cold rolling?  
(b) Draw and describe the geometry of a single point cutting tool?
8. State and explain with the help of suitable diagrams, the working mechanism of slotted link quick return mechanism of a shaper machine?
9. Write short note on following:
  - (a) Powder metallurgy
  - (b) High velocity forming
  - (c) Indexing

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