

ROLL No:

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Total number of pages:[2 ]

Total number of questions: 09

**B.Tech. || ME || 4<sup>TH</sup> Sem**  
**MANUFACTURING PROCESSES-II**

**Subject Code: ME-210**

**Paper ID:**

(for office use)

**Time allowed: 3 Hrs**

**Max Marks: 60**

**Important Instructions:**

- Section A is compulsory.
- Attempt any four questions from section B
- Attempt any two questions from section C
- Assume any missing data
- Additional instructions, if any

**PART A (2marks ×10)**

Q. 1. Short-Answer Questions:

- (a) Write the various products of forging.
- (b) Define rolling.
- (c) What is 'Indexing'?
- (d) Name the different types of coolants.
- (e) Define broaching operation.
- (f) Mention various methods of producing powder.
- (g) What is tool signature?
- (h) How milling machine is specified?
- (i) Define taper turning.
- (j) Give three advantages of using carbide tools.

**PART B (5marks ×4)**

- Q. 2. Explain high velocity forming. Name and describe some operation based on this technique.
- Q. 3. Draw the geometry of single point cutting tool and also explain the significance of its different angles.
- Q. 4. Explain in detail various drive mechanism in lathe machine.
- Q. 5. What is powder metallurgy? Explain sintering, to what type of components it is applied.
- Q. 6. Compare the blanking and piercing die for press working.

**PART C (10marks ×2)**

- Q. 7. What are the different tool materials? Explain the composition, application, advantages and limitations of carbon steel, cemented carbides and ceramics.

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Q. 8. Explain wire drawing with the help of diagram and write its applications.

Q. 9. What are the factors considered in selection of a grinding wheel? Explain.