Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

B.Tech. (Sem. - 4th)

MANUFACTURING PROCESSES - II

SUBJECT CODE : ME - 210

Paper ID : [A0812]

[Note : Please fill subject code and paper ID on OMR]

Time: 03 Hours

Maximum Marks: 60

 $(10 \times 2 = 20)$

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any Four questions from Section - B.
- Attempt any Two questions from Section C. 3)

Section - A

Q1)

- Draw neat and clean free hand sketch to illustrate spinning operation. a)
- b)
- What are the main industrial uses of powder metallurgy? C)
- What do you mean by roll bending? d)
- What is snake skin defect in extrusion process? e)
- Name the constituents of cemented carbide tools. f
- How the coolants effect the feed and cutting speed? g)
- Draw simple kinematic scheme of centre lathe. h)
- What is the purpose of indexing in milling operation? i)
- Which machining operation is used for manufacturing long keyways i) on shafts?

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Section - B

- Q2) Differentiate between counter boring and counter sinking.
- Q3) Explain the nomenclature of grinding wheels.
- Q4) Name various forging defects and propose the remedies to avoid them.
- Q5) Explain the working of metal forming process which is based on the principle of kinetic velocity.
- **Q6**) Write note on the following :
 - (a) Twist drill geometry.
 - (b) Briquetting.

Section - C

 $(2 \times 10 = 20)$

- Q7) Explain in detail various lathe operations.
- Q8) Explain in detail various forging operations and principles.
- **Q9**) Explain the following :
 - (a) Properties of lubricants.
 - (b) Deep drawing.

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