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Roll No.						Total No. of Pages: 0	2
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Total No. of Questions: 09

B.Tech.(ME) (2011 Onwards) (Sem.-4) MANUFACTURING PROCESSES-II

Subject Code: BTME-405 Paper ID: [A1215]

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 have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- (a) Define powder metallurgy?
- (b) What is piercing?
- (c) Sketch a hot rolling process?
- (d) Draw a typical die and show all the parts on it.
- (e) What is the effect of small nose radius?
- (f) Sketch the quick return mechanism of a planner machine.
- (g) Write the composition of high carbon steel.
- (h) Define speed and feed of a milling machine.
- (i) What is tool signature?
- (j) Write the name of lathe accessories.

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SECTION-B

- 2. With the help of suitable sketches, explain the geometry of a single point cutting tool.
- 3. Describe the main parts of a lathe machine with the help of suitable sketches.
- 4. Differentiate between progressive and compound dies.
- 5. With the help of neat diagrams, explain the different types of drill holding devices.
- 6. Define indexing? Differentiate between compound and differential type of indexing.

SECTION-C

- 7. Explain the construction and working of a surface grinding machine with the help of suitable sketches.
- 8. (a) Explain the necessity of uses of coolants in machining operations. How coolants affect the speed, feed and depth of cut of machining?
 - (b) Explain in detail the power driving mechanism of a power press? Also define shut height.
- 9. (a) What is Extrusion? Explain the various factors which affect the performance of extrusion process.
 - (b) Define the cutting speed, feed and depth of cut for a drilling operation.

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