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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 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. Write briefly :
 - (a) Define extrusion process.
 - (b) What do you mean by piercing?
 - (c) Draw a typical die and show all the parts on it.
 - (d) Define speed and feed of a boring machine.
 - (e) Write the specifications of a shaper machine.
 - (f) What is the effect of large rake angle of a cutting tool?
 - (g) What is tool signature?
 - (h) Sketch a cold rolling process.
 - (i) Write the composition of HSS.
 - (j) Define grit and grade for a grinding wheel.

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SECTION-B

- 2. Name the different cutting tool materials. Explain the composition, properties and uses of high speed steels and cemented carbides.
- 3. Define indexing. Differentiate between compound and differential type of indexing.
- 4. Explain with the help of neat sketches the up and down type of milling operations.
- 5. With the help of suitable sketches, explain the geometry of a single point cutting tool.
- 6. Explain the necessity of uses of coolants in machining operations. How coolants affect the speed, feed and depth of cut of machining?

SECTION-C

- 7. Explain the principle of working and construction of a lathe machine with the help of neat diagrams.
- 8. (a) Draw the geometry of a twist drill and briefly explain its elements.
 - (b) With the help of suitable diagrams, discuss the principle of boring.

Also differentiate between drilling and boring.

- **9.** (a) Define powder metallurgy process. Explain the complete operation of powder metallurgy in detail by taking a suitable example.
 - (b) Explain with the help of suitable diagrams the following operations : Blanking, Piercing, Coining, Embossing and Shot Peening.