

**Fourth Semester B.E. Degree Examination, June-July 2009**  
**Manufacturing Process - II**

Time: 3 hrs.

Max. Marks:100

*Note : Answer any FIVE full questions, selecting atleast  
 TWO questions from each Part - A and Part - B.*

**PART - A**

1.
  - a. With neat sketches, give nomenclature of a single point cutting tool. (07 Marks)
  - b. Derive the conditions  $2\phi + \beta - \gamma = \frac{\pi}{2}$ . Explain its significance with usual notations. (07 Marks)
  - c. List various factors influencing tool - life. Explain any one of them. (06 Marks)
2.
  - a. List various cutting tool materials in the increasing order of their hardness. (06 Marks)
  - b. Explain with the help of neat sketches, heat distribution at tool and workpiece. (06 Marks)
  - c. What are the methods of measurement of temperature of cutting tool tip? Explain any one of them. (08 Marks)
3.
  - a. Differentiate between capstan and turret lathes. (05 Marks)
  - b. With a neat sketch, explain any one of the driving mechanisms used in a shaping machine. (08 Marks)
  - c. Sketch a planning machine indicating major parts. Name any one of the mechanism for quick return movement in a planer. (07 Marks)
4.
  - a. List various drilling machines. (05 Marks)
  - b. Draw neat sketch of a radial drilling machine indicating parts. (06 Marks)
  - c. Sketch and mention the application of the drilling machine operations - counter boring reaming and trepanning. (09 Marks)

**PART - B**

5.
  - a. With sketches, differentiate between up milling and down milling operations. (06 Marks)
  - b. Draw a neat sketch to show major parts of a horizontal milling machine. (08 Marks)
  - c. What is Indexing? Explain compound indexing. (06 Marks)
6.
  - a. List various grinding wheel abrasives and bonding processes. (07 Marks)
  - b. Sketch a centre type - cylindrical grinding machine indicating parts. (08 Marks)
  - c. Differentiate between horizontal and vertical grinding machines. (05 Marks)
7.
  - a. Sketch and explain vertical lapping machine. (08 Marks)
  - b. Name the parts along with a neat sketch of a tool head for honing of holes. (07 Marks)
  - c. List the uses of lapping process. (05 Marks)
8.
  - a. Mention any five non - traditional machining processes. (05 Marks)
  - b. Explain AJM with a neat sketch. (10 Marks)
  - c. What are the applications of non traditional machining methods? (05 Marks)

# Fitting And Machining Theory N2 Question Paper 2014

**G Psacharopoulos**



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