

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)

Mechanical Fitting Theory Question Paper N1

Michael Rajnik



Mechanical Fitting Theory Question Paper N1:

Density Functional Theory Eberhard K.U. Gross,Reiner M. Dreizler,2013-06-29 The first Nato Advanced Studies Institute entirely devoted to density functional theory was held in Portugal in September 1983 The proceedings of this School published in early 1985 is still used as a standard reference covering the basic development of the theory and applications in atomic molecular solid state and nuclear physics However astonishing progress has been achieved in the intervening years The foundations of the theory have been extended to cover excited states and time dependent problems more fully density functional theory of classical liquids and superconducting systems has been addressed and extensions to relativistic that is field theoretical systems as well as a more thorough discussion of magnetic field problems have been presented In addition new functionals have been devised for instance under the heading of generalised gradient expansions and the number of applications in the traditional fields has steadily increased in particular in chemistry Applications in new fields as for instance the structure of atomic clusters and the marriage of density functional theory with molecular dynamics and simulated annealing have provided additional impetus to the field of density functional theory **Applied Mechanics Reviews** ,1988

U.S. Government Research & Development Reports ,1966-11 **The Mechanical World** ,1908 □□□□ ,1994
Paper ,1995 Transactions of the American Society of Mechanical Engineers American Society of Mechanical Engineers,1963 Vols 2 4 11 62 68 include the Society's Membership list **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1991 English Mechanic and World of Science ,1873 *Title List of Documents Made Publicly Available* ,1992-03

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