H-1052

Total No. of Printed Pages:2

SUBJECT CODE NO:- H-1052 FACULTY OF SCIENCE AND TECHNOLOGY S.Y.B.Tech. (Mech) CBC & Grading System (Sem-IV) Manufacturing Process – II (Revised)

[Time: Three I	Hours] [Max:Marks:	80]
N.B	Please check whether you have got the right question paper. 1) Question Q. No.01 from section A and Q. No.6 section B is compulsory 2) Attempt any two questions from remaining questions of each section. 3) Figure to the right indicates full marks.	200
	Section A	
1) 2) 3) 4) 5)	any Five question from the following Classify machine tool? Compare advantages and disadvantages of fiat and V-guideways? Define the term Conicity"? What is swing diameter? Write down any four operations performed by a drilling machine? What is meant by "Sensitive hand feed"?	10
,	Explain the Mechanism of chip formation and state the factor affecting the types of chip produced? Explain the tooling layout to produce a Hexagonal bolt in a turret lath?	08 07
	Explain the Working principle of a Jig boring machine with a neat sketch? Explain the twist drill nomenclature and define various elements of twist drill?	08 07
	The following equation for tool life is given for a turning operation VT ^{0.13} f ^{0.77} d ^{0.37} =C, A 70 minute tool life was obtained while cutting as V=30m/min, f=0.3mm/rev & d=2.5 mm. Determine the change in tool life if the cutting Speed, feed and depth of cut are increased by 30% individually and taken together? With a neat sketch, Explain the construction, working and application of capstan lathe?	
Q.5 Write	short note on	15
2)	Power and Energy Relationships in Machining? Cutting parameters in Turning? Machining time calculation in Drilling?	

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SECTION B

Q.6	Solve any Five question from the following		10
	1)	Define "Face milling?	
	2)	What is meant by dressing and truing	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	3)	Define the terms abrasive grains	SAC
	4)	How non-traditional machining processes are classified?	
	5)	Enlist the requirement that demands the use of advanced machining process.	500
	6)	What is meant by indexing?	J. J. J.
Q.7	1.	Explain the operations of horizontal broaching machine with neat sketch?	08
	2.	Explain Surface Grinding with neat Sketch?	07
Q.8	1.	Explain Compound indexing and Write down the rule for Compound indexing with example?	08
	2.	Explain the principle of LBM with neat sketch?	07
Q.9	1.	Explain simple indexing in detail and Write down the rule for simple indexing?	08
	2.	Explain the principle of quick return motion mechanism of a shaper. What is need of this mechanism?	07
Q.10		Write short note	15
		1) Universal planer	
		2) Specifications of Grinding Machines	
		3) Benefits of Non-Conventional Machining Processes.	
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