BE - SEMESTER-V (OLD) - E Subject Code: 153404 Subject Name: Mold Engineering Time: 02:30 PM to 05:00 PM Instructions:		: Enrolment No	
		t Name: Mold Engineering 02:30 PM to 05:00 PM Total Marks:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain the working principle and physical process of Electrical Discharge	07
	(b)	Machine with neat sketch. Discuss various parts of a two plate mold. Highlight materials used for making each of them.	07
0 2	(a)	OR Write the applications of EDM in development of Mould	07
Q.2	(a) (b)	Write the applications of EDM in development of Mould. What is the function of Lathe? Discuss in detail operations that can be done on a Lathe Machine.	07
		OR	
	(b)	Draw a schematic diagram of Three Plate Injection Mould, mark its parts with suitable example.	07
		OR	
Q.3	(a)	Discuss various materials used for building a mold. Highlight choice of a particular material.	07
	(b)	Name any three cutting fluids. Write the uses and disadvantages of cutting fluid.	07
		OR	
Q.3	(a)	What is Electro deposition? Discuss with applications in detail.	07
	(b)	Discuss about various instruments used in inspection of molds. OR	07
Q.4	(a)	Discuss Surface texturing of molds.	07
	(b)	Define Surface roughness? Discuss various types of polishing tools used in mold building industry.	07
		OR	
Q.4	(a)	Write the working principle and applications of Profile Grinding Machine in Mould development with sketch.	07
	(b)	Draw a two dimensional Pantograph machine. Write the working principle and applications of Pantograph machine.	07

(a) What is the difference between Shaping and Planning? Discuss.(b) How to check the hardness of a mould parts? Explain.

OR

07

07

07 07

(a) How Mould cavities are created with the help of Electro forming? Explain with

Write the principle of Electro forming processes, applications and advantages.

OR

Q.5

Q.5

an example.