

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 11523

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13.	a)	Write short notes on the following: (i) Die block	
		(ii) Durch holder	4,K2,CO4
		(ii) Funch holder.	4,K2,CO4
		(11) Guide plates.	5,K2,CO4
		OR	
	b)	Sketch and design a piercing die to make 35 mm square part from 2 mm thick carbon steel sheet metal.	13,K2,CO4
14.	a)	Write short notes on Bending die, forming die and fanning die. OR	13,K2,CO5
	b)	Sketch and design a drawing die as shown in Figure below from medium carbon steel $F = 3600 \text{kg/cm}^2$.	13,K2,CO5
		All Dimension are in mm	
15.	a)	Discuss the following process with sketches.	
		(i) Surging	4,K2,CO6
		(II)Swaging.	4,K2,CO6
		(III)Embossing.	5,K2,CO6
		OR *	
	b)	Explain the importance of various tooling in NC machines.	13,K2,CO6
		PART C (1 × 15 = 15 Marks)	C

16. a) Design a milling fixture to make a slot of 70mm x 10mm x 10 mm as 15.K3.CO3 shown in figure below.



b) Sketch and explain a welding fixture for door frame fabrication.

15,K2,CO3

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