TEMECHX (CBT | SOM-II MP

[Time: 3 Hours]

Dt-17/5/17

[Marks:80]

Q.P. Code:11084

N.B: 1. Question No. 1 is compulsory. 2. Attempt any three questions from remaining five questions. 3. Illustrate your answers with neat sketches. 4. Figures to the right indicate full marks. Q.1 Write short notes on any four-20 a) Pattern Allowances. b) Silicon Integrated Circuits processing. c) Plasma are machining. d) Extrusion in plastic. e) Types of chip. Q.2 a. Explain investment casting and give its relative merit and demerits. 10 b. Describe the difference between compound, progressive and Transfer Dies. 10 Q.3 a. Explain the following term: 10 i) Bending ii) Piercing iii) Coining iv) Trimming Explain the significance of F.W Taylor Tool life Equation. 05 c. Distinguish between Orthogonal cutting and Oblique cutting. 05 Q.4 a. What are the basic elements of lathe machine? Explain the function of each. 10 Explain shaping machine with neat diagram. 05 c. What are the advantages and disadvantages of adhesive bonding technology? 05 Q.5 a. Distinguish between Brazing and Soldering. 06 Explain the basic principle of forge welding with neat sketch. 06 c. Explain the construction, working, application of ultrasonic machining process. 08 Q.6 a. Write short note on (i) Selective laser sintering (ii) Laminated object manufacturing. 10 Name the three exposure technique in photolithography and explain in brief. 10