6TH SEM./MECH./ DIP.IN MECH./MECH(SAND.)./MECH(IND. INT.)/2024(S)

Advance Manufacturing Processes Th-4 Time-3 Hrs Answer Any Five Questions including Q No.1& 2 Full Marks: 80 Figures in the right-hand margin indicates marks 2×10 Answer All questions 1. What is the need of studying Advance Manufacturing Processes? a. Name the equipments used in ultrasonic machining process. b. What is thermoforming process in plastics? Name the different thermoforming processes. State four process parameters of Wire Cut-EDM process. d. Write down any four important applications of plastics. State the principles of SPM design. State the needs of Additive Manufacturing. \\.\ \What is Manufacturing Automation? Name at least four machine parts which need to be lubricated. What is the importance of maintenance manual? 6 x 5 Answer Any Six Questions 2. Discuss about different layouts of Special Purpose Machine design. Discuss briefly about web based Rapid Prototyping. b. Differentiate between Capstan Lathe with Turret Lathe. Discuss about Repair Cycle and Repair Complexity. What is machine tool maintenance? Why it is needed? Explain Blow Moulding process in Plastics with sketch. Describe ECM Process with appropriate diagram. Describe the material removal in LBM Process. Draw the diagram of the process. 10 10 Explain Plastic ExtrusionProcess with neat sketch. Discuss about different types of Maintenance with necessary examples. 10 Explain Stereolithography Process with its Advantages, Limitations & 10 Applications. 10 Write short notes on any TWO

Transfer MouldingRing LubricationTotal Productive Maintenance

Abrasive Jet Machining

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