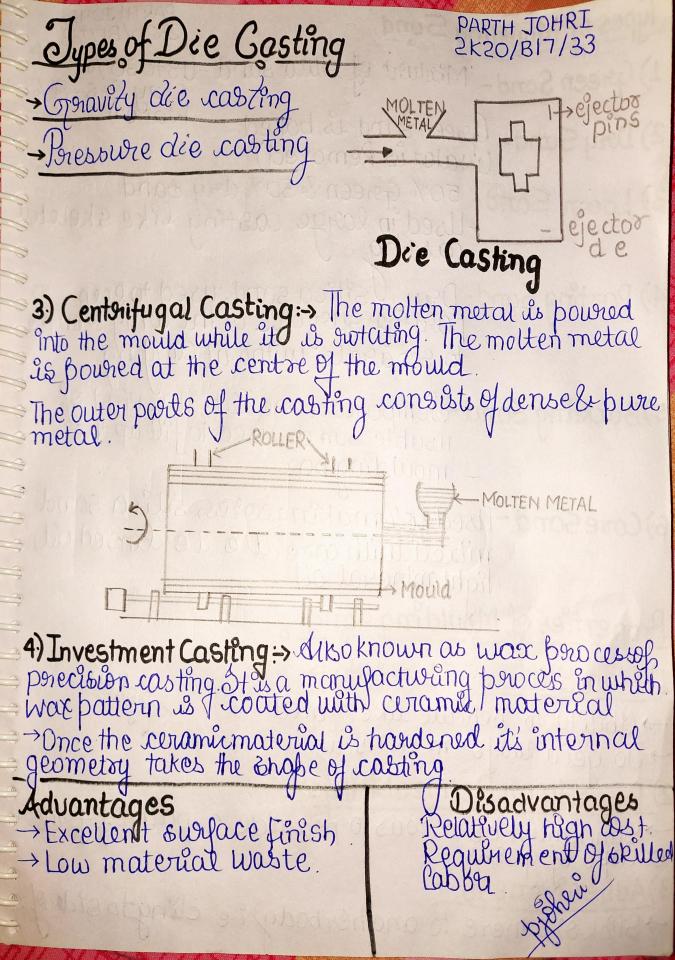
PARTH JOHRI ASSIGNMENTNO : 2. 3K30/B17/33 · Casting . Types of Casting. Sand casting 0: Sand casting is also known as Sand molded casting st is a metal casting process characterised by using sand as of the mold material 2) Obdvantages → Can create very complex parts
→ Experimental cast is low →Almost all types of Alloys can be cast. Disadvantages. → Creates high degree of porosity → Surface finish is poor The solidified casting Casting thorough the gating system 2) Die Casting, St is an automated carling process an which the liquid melt is pressed into a mold under high pressure (150-200 par) & high filling speed lupto 540 km/hi). The process consists of Jano blocks of heat resistant metals having caulties machined resistant metals having permanent mould accurately to make the permanent mould



Types of Moulding Sand. PARTHJOHRI 2K26/BI7/33 1) Green Sand - Mixture of silica Sand-U8 to 30% Clay 8-6-8%
2) Dry Sand - Green sand is baked Water 2) Dry Sand-Green sand is baked Water is Removed) 3) Loam Sand- 50% Green & 50% dry sand
-Used in large casting like skeletal
casting 4) Parting Sand-Day Isilica sand, used to keep parting surface of the drag & cope to separate without clinguog 5) Backling Sand-Jemporary mould, it is kind of usable sand, used to fill up the moulding box 6) Core Sand-Used for making cores, silica sand mixed with core die se linsed oil Properties of Moulding Sand 1) Flawbility of Plasticity >> figher. → Ability to behave like fluid → Jo geta uniform density. 2) Porosity on Permeability:>> -> Sand must be porous to pervuide a path of force escape of gases 3)Adhesiveness:> -> Stick or adhere to another body i.e. cling to sides

PARTH JOHRI moulding box 2K20/B17/33 4) Cohesiveness → Ability of Sand particles to stick together Due to this mould retains its shape 5) Refractomess → Withstand high temperature of molten material This will awird tearing or contracting metal Reparation of Mould Sand The pattern whose casting is made is placed on the wooden board. → The drag is then placed on the board. -Parting sand is applied slightly on the pattern > Sand is filled over the pattern & packed all over in the board Rances age used to tightly pack the sand The drag is then twined upside down brloosestand Storis Obleven off > The cape bon's now placed on drag & a vent nod & used formaking the escape path low the gassesthat comes out at the time of casting → Hole is midened la facilitate powring metal -Pattern is removed & gate cutters are used to cut a gate