Natha : & Product Development S8, CSE B Design No: 10 Assignment - 2 Q1) Identify any one dectromechanical derice at home & perform a value analysis on it. Use at least 5 criteria and 3 aneighting factors. -> Design and Devidoponent of a Low-Cost washing hadine 8 vitare for polythene mathews. Fraterials Selection the materials considered for component parts of this Each of machine , were calefully making based polination the entire as himg the distributed 8 tress and sele used actions on them. It is aleas of this sympley that are of this city better tensile load because chose Strength. washing machine works on the frathods washing and centrifugal and principle of centrifugal and lowers centrip et al fora. Detugat lowers Centrip etal fora, During Const.

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to the water. I motor causes the ionner dem to potate, consing the fulle water sachet to be to ssed form side to side. chart

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The sollie improvements possible on. =) 00 First appealance Should be pleasing to the customer's eye. & Symmetry should be maintained as much as possible. & Shalp edges should be avoided or Chanfeled. & to Comportability during ase Leg ai dements a Primimise discomfort desing & Laintain Clealance. de fraintain deach.

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& working Leight between 820-950mm & Display Zone bowen 1227-1482 ma & Display information & Roduce menory load! se Liminise the vibration and quoise level. -> v?bration: - use vibration pads or mots. -) Doise: - awing acousting absorting materialing laundly noon. -> Lightims: - Use high efficiency lights i'm a laundry soom. Q3) with Stetches, detail any 2 rapid prototyping processes. -) Lapid prototyping (Ap) ?andudes à valiety of manufacture technologies, although mest wilise layered additive manufacturing However, other technologies used for Rp include high-speed maching casoing, mornding machiniang, cohile additive In In up a daling Common

prototyping process, other more conventional processes con also be used to create portetpes. porcesses include: These (i) Subtractive - whereby a block of anatemal is called to produce the desired shape asing milling grinding or treming. (il) compressive - whereby a semi-solicat or Equid material is forcediate the desired Shape before being Solldified, Such as with cristing, compressive sintering or mouding. -) Rapid portotyping CAMT wing sub tractive processe relification Destor Jor-code -> Lends of of dditine application namufactures addictive golid imaging concept anodory manufacturing Prototypic) Functional postotyp prototyping Rapid propert money a ctrle manfactilis