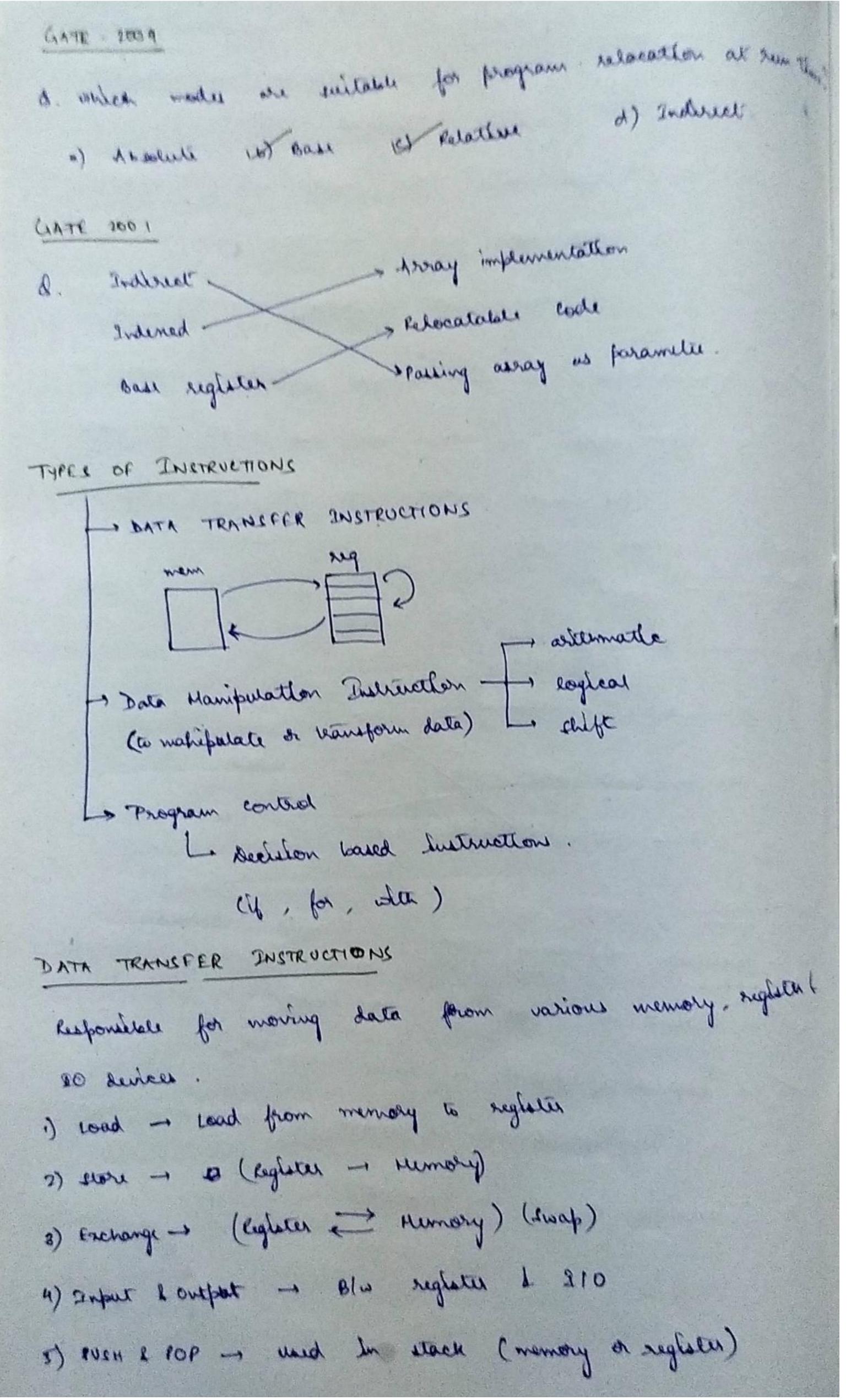
GATE 2000 I. Natch the following: a) Indirect Addressing LOOPS POINTER 6) Immediate CONSTANTS c) Auto decrement g. In absolute addressing made: (absolute = otherst). GATE 2002 wat The operand is Inside the Instruction by the address of operand is breide bretanetton. e) Register containing address of operand be specified be instructions. d) Location of operand is implicit.



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## ARITHMATIC Instructions & 1) Increment 1 Decrement } provided by almost all systems 2) Add L substract 3) Multiple & Alarheton NOTE: Each of the Instructions have several micro operations 4) Add when covery Involved before them. 5) subtract when borrow () Negate -> complement of data Logical Instructions (Also called let triggering operation) formided by all systems 3) CLEAR - changing all who of regleter to 0. 4) COMPLEMENT -> Some wing Ex OR (another operation) of Exclusion or - provided by many 6) clear / set carry to 0 or 1 2) Complement Carry 8) Enable / Desable Zutirupt SHIFT INSTRUCTIONS ) rogical sulft Right / reft - suift all des to right / reft & M.S.B 2) Asianmale shift signet/ left - in.s. B or eign bût remains same. All other bets get shifted. The Sam as toglest left empty place gets filled by sign blt. 3) lotate left 1 right - enift considering reglates as a chale. e consider reglates + casey and strift as 4) Kotata Through carry -> a circle. Scanned by TapScanner

PROGRAM CONTROL INSTRUCTION (To change from of execution from regressial to non requestion i. Branch - conditional / Non-conditional. (Direct mode) 2. JUMP -> Sime as branch. (Indirect mode) 3. SKIP -> skip the next etep. A. CALL -> Call function / procedure of RETURN - Return the control 6. CONPARE - compare Al B and apply Instruction #1. TEST - similar to compare. FLAGS 8 bit ALV V - overflow Flage (Cin 1) Cout) - 1 - overflow or or everylow 3 - indicate whether result to zero on not E - sign bit ( and to identify sign of result) C - carry ( To see 4 lest inst" left a carry or not)

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