Q1)

- 3) STOS This instructions stores data from regester (AL, AX or EAX) to memory
 - eg: MOV DI; OFFSET D_STRING STOS D_STRING
- data items in memory. Data could be of a byte size, word, or doubleword.
 - eg:
 MOD SI, OFFSET F_STRING;
 MOV DI, OFFSET S_STRING;
 CLD
 CMPS F_STRING, S_STRING;
- 5) SCAS! This instructions componers the context of a register (AL, AX or EAX) with the context of an item in memory:
 - eg: MOV AL, UDH

 MOV DL, UFFSET TEXT_STRING

 MOV CX, 80

 CLP

 REPNE SCAS TEXT_STRING

QZ) REP:

Repeat String Operation (rep, 1epn2, 1ep2)

Operation: Repeat String operation until tested conditions: Use the rep (repeat while nonzero) or up (repeat while repeat while nonzero) the associated string instruction to repeat until the count register (CX) or the zero flag (2F) matches a tested condition

eg: Repeat while equal: Copy the 8 bit byte from the DS: [(E) SI] to the ES [(E) DI] register re pi

The JC instruction branches to the speafic address if the carry flag is set otherwise executing continues with the next instruction No flags are affected by their instructions

eg!-JC LABEL

The IMP instruction transfers execution to the address generated by adding the 8 bit value in the accumulator to the 16-bit value in the DPTR register are

alfued. No flags are affeted by this instruction eg: JMP QA + DPTR

CALL! The call instructions is used whenever we need to make a call to some procedure or a sub-program. Whenever a call is made, the process takes place inside the microprocessor. The address of the next instruction that exits in the call publish.

ey:- CALL subprogramme_name

WAIT: When this instruction is executed,

the 8086 enters an indide conditions
in which it is doing processing wait
will stay in this idle state until test
input pin is made low or until an interuppit
signed is received or INTR or the NMI
interupt input pins. The WAIT instructions is
used to synchronize with external hardware
such as the math coprocessor. WAIT close
not affect any flag
eg: WAIT