



- with five instruction examples.
- (b) Define the following terms 1. T-states 2. Machine cycle 3. Instruction cycle. Draw the timing diagram for the instruction STA 2050H. **07**
- Q-5** **Attempt all questions** **(14)**
- (a) Write an ALP to subtract one 8-bit number stored at memory location 2050H from another number stored at memory location 2051H without use of subtract instructions. Result stored at memory locations 2052H. **07**
- (b) Write an ALP to multiply two 8-bit numbers which are stored at memory locations 2050H and 2051H. Result stored at memory locations 2052H (LSB) and 2053H (MSB). **07**
- Q-6** **Attempt all questions** **(14)**
- (a) Explain with diagrams RIM and SIM instructions. **07**
- (b) Draw and explain in detail 8085 vectored interrupts diagram. **07**
- Q-7** **Attempt all questions** **(14)**
- (a) Explain in detail successive – approximation concept used in Analog to Digital converter. **07**
- (b) Write short note on Programmable Peripheral Interface IC 8255A. **07**
- Q-8** **Attempt all questions** **(14)**
- (a) Write short note on Programmable Timer/Counter IC 8254. **07**
- (b) Draw the internal block diagram of IC 8279 keyboard/display interface. Explain each of blocks in detail. **07**

