SECTION – B

II. Answer **any five** questions. **Each** question carries **10** marks : (5×10=50)

13) Draw the architecture of 8085 microprocessor and explain. **10**

14) a) What is an addressing mode ? Explain various addressing modes of 8085. **5**

   b) What are flags ? Draw the format of flag register and explain their function. **5**

15) a) Explain the following instructions : **5**
   i) RRC
   ii) STA X
   iii) XCGH.

   b) Draw the timing diagram for OP code fetch machine cycle. **5**

16) a) Explain the classification of instructions based on word size. **5**

   b) Explain the unconditional and conditional jump instruction. **5**

17) a) What is stack ? Explain the different operations that can be performed on stack. **5**

   b) Write a program to add two 16 bit numbers. **5**

18) a) What is subroutine ? Explain CALL and RET instruction. **5**

   b) Explain RIM and SIM instructions. **5**

19) a) What is an interrupt ? Explain the classification of interrupt. **5**

   b) Distinguish between peripheral – mapped I/O and memory – mapped I/O. **5**

20) Write a notes on : **(5+5)**

   a) DMA

   b) Control word format of 8255 A.