P.T.O

The interrupt vector address for RST 5.5 is _____. [002CH, 0001H]

JMP 2345H is ______ instruction. [2-byte, 3byte]
The 8085 is _____ microprocessor. [8-bit, 16-bit]

There are general purpose registers. [8, 6]

1.

2.

3.
 4.

- 5. [True/False]The resistor which holds the address of the next instruction to be fetched is accumulator.
- 6. [True/False] TRAP has the highest priority to hold DMA signal.
- 7. [True/False] PSW is used for content of flag register.
- 8. [True/False] The stack is a data storage area in RAM used by certain microprocessor operations.

Q-3 Answer in short.(Any ten)

[20]

- 1. Define the functions of SID.
- 2. Write a note on HLT instruction
- 3. Explain in brief about Flags.
- 4. What do you mean by machine cycle?
- 5. List out the data transfer instructions.
- 6. Note down the functions of ALE.
- 7. Explain the functions of the RD & IO/M signals.
- 8. Write a program to add two 8-bit values 55h & ABh.
- 9. Name the buses used in microprocessor based system.
- 10. Explain Subroutine
- 11. Write a program to subtract 39H from 30H, display on out port 1.
- 12. Define: Stack.

Q-4 Attempt any four out of the followings

[32]

- 1. Explain in detail architecture of 8085 microprocessor.
- 2. Explain the Bus Timing Diagram.
- 3. Write a program to perform the following functions with its description: i Load the number 8Bh in register D.
 - ii Load the number 6Fh in register C.
 - iii Increment the contents of register C by 1.
 - iv Add the contents of register C & D & display sum at PORT 1.
- 4. Explain different Arithmetic instructions with suitable examples of each.
- 5. Explain Branch instruction.
- 6. Write a program to convert two digit binary numbers (9Fh) to ASCII Hex Code.
- 7. Write a program to convert two digit Binary number to its BCD equivalent.
- 8. Add two 4 digit BCD numbers in HL and DE register pairs and store result in memory locations, 2300H and 2301H.