



DMM-3062

Second Year B. Sc. (Sem. IV) Examination

March / April - 2016

Electronics : Paper - IV

Time : Hours]

[Total Marks : 50

Instructions :

(1)

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| नीचे दृष्टावेव निशानीवाणी विगतो उत्तरवडी पर अवश्य कपवी. Fillup strictly the details of signs on your answer book. | Seat No. : |
| Name of the Examination : | <input type="text"/> |
| <input type="text" value="SECOND YEAR B. SC. (SEM. 4)"/> | <input type="text"/> |
| Name of the Subject : | <input type="text"/> |
| <input type="text" value="ELECTRONICS : PAPER - 4"/> | <input type="text"/> |
| Subject Code No. : <input type="text" value="3"/> <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="2"/> | <input type="text" value="Student's Signature"/> |
| Section No. (1, 2,.....) : <input type="text" value="Nil"/> | |

(2) Q. 1 is compulsory.

(3) Abbreviations have their usually meaning.

1 Answer in Brief :

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- (A) Explain instructions MOV M, r and LXI H, Addr
- (B) What do you understand by interrupt? State all interrupts available with 8085A and state their priorities.
- (C) What is the bus width of data bus and address bus in case of 8085A? What is the maximum unique memory location accessible in 8085A?
- (D) What is the function of ALE pin in case of 8085A?

2

14

- (A) Write a program to add two 8-bit numbers and assume that the result is 8-bit only.
- (B) Write a program to find 1's complement and 2's complement of 8-bit data.

OR

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14

- (A) Explain, in detail, the architecture of 8085A.
- (B) Explain, in detail, the function of HOLD and HLDK pin of 8085A with reference to other master like direct memory access controller.

- 3** **14**
- (A) Write a program to subtract two 8-bit numbers and assume that the result is 8-bit only.
 - (B) Write a program to find largest number from the three given numbers stored at some memory location.

OR

- 3** **14**
- (A) What do you understand by Stack and Stack pointer? Explain the register structure of 8085A.
 - (B) What do you understand by addressing mode? With suitable examples explain, in detail, all addressing mode of 8085

- 4** **14**
- (A) Write a program to add two decimal numbers and assume that the result can be more than 8-bit.
 - (B) Draw the functional block diagram of 8255 Programmable Peripheral Interface and explain function of each block.

OR

- 4** **14**
- (A) Draw the functional block diagram of the 8085A and explain the function of each block.
 - (B) Draw block diagram of Flag register of 8085A and explain each flag in detail.
