

Seat No.:

[198A29]

SARDAR PATEL UNIVERSITY
S. Y. B.C.A. (III SEMESTER) EXAMINATION
Friday, 25 NOVEMBER, 2016
2.00 P.M to 4.00 P.M
US03EBCA01: Introduction to Microprocessors

No. of printed pages: 2

Total Marks : 70

Q-1. Multiple Choice Questions.

[10]

1. A flag is a one type of _____.
(A) Latch (B) Gate
(C) Flip-Flop (D) None of these
2. An assembler translates the assembly language _____ to the binary codes.
(A) Program (B) mnemonics
(C) Code (D) None of these
3. The assembler list file extension is _____.
(A) .OBJ (B) .LST
(C) .LIS (D) None of these
4. DIV stands for _____.
(A) Division (B) Signed Division
(C) Unsigned Division (D) None of these
5. NOT stands for _____.
(A) Negative (B) Nothing
(C) Invert all Byte (D) Invert each Bit
6. ROL stands for Rotate _____ of operand left.
(A) each Bits (B) each Bytes
(C) all Bits (D) all Bytes
7. JZ is executed when the zero flag is _____.
(A) reset (B) set
(C) undefined (D) None of these
8. SHL stands for Shift _____ left.
(A) Operand Bits (B) Bits
(C) Operand Bytes (D) Bytes
9. An END directive ends the _____.
(A) segment (B) program
(C) procedure (D) None of these
10. In WHILE-DO structure the condition is checked _____ any action is done.
(A) after (B) before
(C) in the structure (D) None of these

[P.T.O]

- Q-2. Short Question. (Any Ten) [20]**
- 1 What is the meaning of 16-bit in 8086 microprocessor?
 - 2 List all conditional flags of 8086 microprocessor.
 - 3 What do you mean by Queue in 8086?
 - 4 State the example of SBB instruction with syntax.
 - 5 Explain NOT instruction with example.
 - 6 State the example of DIV instructions with syntax and full form.
 - 7 Differentiate ROL and ROR.
 - 8 What do you mean by conditional JUMP? Explain with example.
 - 9 Explain LOOPZ instruction with example.
 - 10 What is the use of PAGE and TITLE directive in assembly program?
 - 11 Write syntax of multiple IF-THEN-ELSE with example.
 - 12 Differentiate WHILE-DO and REPEAT-UNTIL.
- Q-3. [A] Explain all major directions in microprocessor evaluation. [5]**
[B] Explain EU in detail. [5]
- OR**
- Q-3. [A] Explain BIU in detail. [5]**
[B] What is an Assembler? Explain the concept of assembler. [5]
- Q-4. [A] Explain MOV & CMP instructions in detail with example. [5]**
[B] Explain INC & DEC instructions in detail. [5]
- OR**
- Q-4. [A] Explain Logical instructions in detail. [5]**
[B] Explain ADC instructions with example. [5]
- Q-5. [A] Write a short note on Rotate instructions ROL and ROR with example. [5]**
[B] Explain JNC instructions with example [5]
- OR**
- Q-5. [A] Write a short note on Shift instructions SHL and SHR with example. [5]**
[B] Explain JZ instructions with example [5]
- Q-6. [A] Explain structure of assembly program. [5]**
[B] List control structures. Explain any one in detail. [5]
- OR**
- Q-6. [A] Which are the Looping structures? Explain any one in detail. [5]**
[B] Explain DB & END directives in detail. [5]

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