

DECEMBER 2015

P/ID 17505/PCASE

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. List out the Flow chart symbols and explain its usage with example.
2. Explain the working of While-do programs.
3. Discuss on the method of writing Assembler macro with an example.
4. Write short notes on Assembler directives.
5. Describe the hardware interrupt applications.
6. Discuss on Operational-amplifier characteristics and circuits.
7. Explain the role of Sensors and Transducers.
8. Describe the features of Intel 80286 Microprocessor.

PART B — (7× 10 = 70 marks)

Answer any SEVEN questions.

9. List out the purpose of various Data transfer, Arithmetic, and Program execution transfer instructions.
10. Explain the method of constructing the machine codes for 8086 instructions.
11. Describe the way of using single and nested procedures.
12. List out any ten instructions, its descriptions and explain.
13. Discuss on the architecture of SDK-86, an example Minimum-mode system.
14. Explain the features of 8086 Interrupts and Interrupt responses.
15. Describe the organization and functions of 8254 Software-Programmable Timer/Counter.

16. Discuss on the way of Interfacing to Alphanumeric displays.
 17. Explain the D/A converter operations, interfacing and applications.
 18. Describe the method of interfacing and refreshing Dynamic RAMs.
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