

<b>MCA-646</b>	<b>MCA-06/ PGDCA-05</b>
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M.C.A./P.G.D.C.A. DEGREE/DIPLOMA  
EXAMINATION – JUNE 2008.

First Year/Second Semester

INTRODUCTION TO COMPUTER  
ORGANISATION

Time : 3 hours

Maximum marks : 75

Answer for 5 marks questions should not exceed  
2 pages.

Answer for 10/15 marks questions should not exceed  
5 pages.

PART A — ( $5 \times 5 = 25$  marks)

Answer any FIVE questions.

1. Convert the following decimal numbers to binary
  - (a) 32
  - (b) 89
  - (c) 298.

2. Draw a Karnaugh Map for five variables.
3. Write short notes on Direct Memory Access.
4. Define control unit and write its functions.
5. What is Micro-programmed control unit?
6. List out various components of 8086 microprocessor.
7. Differentiate between COM and EXE programs.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain Multiplexer and Decoder detail.
9. Explain the following :
  - (a) Optical Memories
  - (b) Charge – Coupled Devices
  - (c) Magnetic Bubble Memories.
10. Explain the basic structure of the CPU with a neat diagram.
11. Discuss the basic organization of ALU.

12. Define microinstruction and write its types and formats.
  13. Discuss the brief outline of 68000 microprocessor.
  14. Write an assembly language program to find largest among 10 numbers.
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