

**SQ-2254** Seat No.\_\_\_\_

## P.G.D.C.A. (Sem. I) Examination **April** / **May** - 2006

S/SC-2254: Intro to Computer Fundamental & Arch.

Time: 3 Hoursl [Total Marks: 100

Note:

- 1. This paper contains maximum 100 marks and two sections.
- 2. Attempt section -1 and section -2 in two different answer sheets.
- 3. Number at right side of question indicates marks of that question.
- 4. Start new question on new page.

## SECTION - I

1 Attempt following (Any three)

[18]

[10]

- 1. Draw block diagram of a computer and explain the function of each unit.
- 2. Explain various types of printers
- 3. Discuss types of memory.
- 4. Classify computer languages. Give advantage & disadvantages of each category.
- 5. How to draw the flow chart diagram? What is the advantages of using it? Explain with a suitable example.
- 2 A. Explain function of various operating systems.
  - A. Discuss Any three input devices
  - B. Convert Following: [06]

    - b.  $(110011101)_2 = ( _______)_{10}$ c.  $(ABC)_{16} = ( ______)_2$
- 3 A. Differentiate following: (any Four)

[80]

- a. Multi Programming -- Multi Processing
- b. Application S/W -- System s/w
- $c. \quad Compiler-Interpreter\\$
- d. Floppy disk Hard Disk
- e. Algorithm Flow chart
- B. What is Gate? Discuss different logic gates available in digital logic [08] circuits.

1 SQ-22541 [Contd...

## SECTION - II

4	<ul> <li>A. Write short note on following: (any three)</li> <li>a. Number system</li> <li>b. Characteristics of computer</li> <li>c. Lower level Language</li> <li>d. Scanner</li> </ul>	[12]
	<ul> <li>B.</li> <li>a. simplify following Boolean Equation:</li> <li>ABC + A'BC + AB'C + ABC' + AB'C' + A'BC' + A'B' + A'BC' + A'B' + A'BC' + A'B' + A'BC' + A'B' +</li></ul>	<b>[06]</b> A'B'C
5	A . What is Flip flop? Explain S-R Flip flop.  B Explain Decoder  OR  B. Explain Encoder	[80] [80]
6	Write short note on any Four:  a. Multi Plexer b. Access Time & Cycle Time c. Implied Mode & Register Mode d. Sequential circuit e. Define following:  i. ASCII  ii. ROM  iii. BIOS  iv. EDCBIC	[16]