



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 Hours]

[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]

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 are the advantages of using it? Explain with a suitable example.

2 A. Explain function of various operating systems. [10]

OR

A. Discuss Any three input devices

B. Convert Following : [06]

- a. $(153)_{10} = (\quad)_2$
- b. $(110011101)_2 = (\quad)_{10}$
- c. $(ABC)_{16} = (\quad)_2$

3 A. Differentiate following: (any Four) [08]

- a. Multi Programming -- Multi Processing
- b. Application S/W -- System s/w
- c. Compiler -- Interpreter
- d. Floppy disk -- Hard Disk
- e. Algorithm -- Flow chart

B. What is Gate? Discuss different logic gates available in digital logic circuits. [08]

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[Contd...

SECTION – II

- 4 A. Write short note on following: (any three) [12]
a. Number system
b. Characteristics of computer
c. Lower level Language
d. Scanner
- B. [06]
a. simplify following Boolean Equation:
 $ABC + A'BC + AB'C + ABC' + AB'C' + A'BC' + A'B'C'$
b. Prove by perfect Induction method:
 $XY + YZ + Y'Z = XY + Z$
- 5 A . What is Flip flop? Explain S-R Flip flop. [08]
B Explain Decoder [08]
OR
B. Explain Encoder
- 6 Write short note on any Four: [16]
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