Roll No. ....

7169

APGDCA/APGDIT/M. Sc.(Computer Sc.)/MCA 1st Sem. Examination January, 2008

FOUNDATION COURSE IN IT & MS-OFFICE 2000

Paper : APGDCA-1

Time : Three hours]   *[Maximum Marks : 75*

Before answering the question, candidate should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : **Attempt** any *five* questions. All questions carry equal marks.

1. (a) What are the characteristics of 4th and 5th generation computers ?   5

    (b) Write short note on ASCII and Unicode.   5

    (c) Discuss the function of CU in a digital computer.   5

2. Perform the following conversions. Subscript indicates the base of the number.

    (show all calculations)

    (a) $(53.2)_8 = (?)_3$ 5

    (b) $(A7.5)_{16} = (?)_{12}$ 5
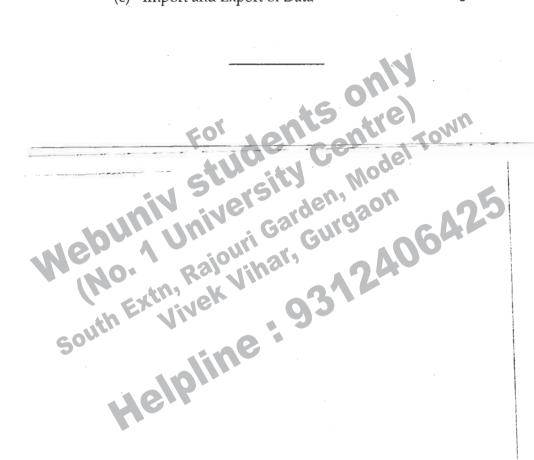
    (c) $(1101101.1101)_2 = (?)_{16}$ 5

3. Write short note on the following I/O devices :

    (a) OCR Reader   5

    (b) Laser Printer   5

    (c) Color Monitor   5

4. (a) How do you classify storage devices ?   5

    (b) Distinguish between paging and segmentation.   5

    (c) Discuss the organization of information on a Hard Disk.   5

5. (a) Write short note on :

        BIOS, Linker and Loader.   9

    (b) What is GUI-based OS ? Discuss its characteristics.6

6. Explain the following in MS-Word :

    Table, Paragraph Formatting, and Page Setup.   15

7. (a) Explain the following in MS-Power Point :

        Animation, Template and Speaker Note.   8

    (b) Explain the following in MS-Excel :

        Cell data validation, Format Styles and Macros.   7

8. Write short note on the following in MS-Access :

(a) Form Design   5

(b) Reports creation   5

(c) Import and Export of Data   5

7171

APGDCA/APGDIT/M. Sc. (Computer Sc.)/MCA 1st Sem. Examination

January, 2008

PROGRAMMING IN DATA STRUCTURE

Paper : APGDCA-3

Time : Three hours]   *[Maximum Marks : 75*

Before answering the question, candidate should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) What do you understand by flow chart ? Discuss its merits/demerits over decision tables.   7

   (b) Differentiate between limited entry and extended entry decision tables using suitable examples.   8

2. Differentiate between following :

(a) Internal and external sorting   5

(b) Do while and while loop in C language   5

(c) Tree and graph data structure   5

3. What do you understand by a linked list ? What are its merits and demerits over arrays ? Write a program in C to insert/delete a node in a singly linked list.   15

4. Write short notes on following :

(a) Inverted lists   5

(b) Pseudo codes   5

(c) Recursion   5

5. What do you understand by binary search ? Write a program in C to perform binary search. Draw its flowchart also.   15

6. What do you understand by hierarchy of operators ? Discuss the hierarchy of operators in C language.   15

7. What do you understand by Stack data structure ? Write a program in C to implement Stack. 15

8. (a) What is structured programming ? What are its advantages ? 7

   (b) What do you understand by pointers ? Write a program in C of your choice showing the use of pointer to pointer. 8