

Printed Pages: 3 PHAR - 124 / PH - 124

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PAPER ID: 1056	Roll No.	\Box								

B. Pharm.

(SEM. II) EXAMINATION, 2006-07

COMPUTER FUNDAMENTALS & PROGRAMMING

Time: 3 Hours | (Total Marks: 80)

Note: Attempt all questions.

- 1 Answer any four of the following: $4\times4=16$
 - (a) What do you mean by computer organization? Name and explain all the functional units of a computer system.
 - (b) What is a memory? Write down the main differences between the primary and the secondary memory.
 - (c) Convert the following binary numbers into their equivalent decimal and hexadecimal number system.
 - (i) 1110110
 - (ii) 100011.
 - (d) What is 4GL? Write down its advantages over third generation languages.
 - (e) Differentiate between Wide Area Networks and Local Area Networks.
 - (f) What is a modem? What do you understand by external and internal modems.
- 2 Answer any four of the following: $4\times4=16$
 - (a) What are the basic flowcharting symbols? What function does each represent?
 - (b) Draw a flowchart to read a number N and print all its divisors.
 - (c) Write an algorithm to compute the sum of the digits of any given number.
 - (d) Draw a flowchart to illustrate the logic to convert a number to decimal from another base.
 - (e) Answer the following questions:
 - Define program.
 - (ii) Write down the steps for planning to write a successful program.
 - (iii) What do you understand by testing of programs?

- (iv) What do you understand by modular programming?
- (f) Write a short note on decision table.

3 Answer any four of the following: 4x4=16

- (a) What do you understand by nested looping? Write down the applications where nested looping is used. Also write down the necessary conditions for writing nested loops.
- (b) Differentiate between the followings with suitable examples.
 - (i) break and continue statements
 - (ii) printf() and scanf() functions.
- (c) Write a program in C language to find out the average of ten numbers stored in an array.
- (d) Write a program in C language to accept any string from the keyboard and display it in the reverse order on the screen.
- (e) What is function? Why is its importance in C language? Explain with the help of a suitable example.
- (f) Discuss the various file opening modes in C language.

4 Answer any two of the following: 8x2=16

- (a) What are the various control structures in FORTRAN language? Write down the purpose and syntax of each of the control structure?
- (b) Write a program in FORTRAN to add two matrices of 3X3.
- (c) Write a program in FORTRAN to find the roots of a quadratic equation. ax² + bx + c = 0. Also explain that how do you write, save, compile and execute the same program on your computer?
- 5 Write short notes on any two of the followings: 8×2=16
 - (a) What do you understand by a database? How do you create a table in MS Access?
 - (b) Explain the followings in reference of MS Access:
 - (i) .mdb files
 - (ii) insertion of records in a table
 - (iii) role of primary key
 - (iv) sorting of records.
 - (c) Explain the various applications of computer in pharmaceutical and clinical studies.