Bachelor of Computer Applications
Annual Examinations – 2006

Paper BCAD – 201
Programming Fundamental

Time allowed: Three hours | Maximum Marks: 100

SECTION – I | Marks

Q1. Attempt all the questions given below: 1X20=20

i) _____ is a utility program that facilitates the removal of errors from a program during development.
ii) The design approach where the main program is decomposed into lower level module is called _____.
iii) Each module of a structured program should have one _____point and one _____ point.
iv) The _____ statement causes an implicit exit from the switch statement.
v) To repent processing the same statements unit a condition is reached _____ control statement is used.
vi) Strlen(s1) statement returns the _____ of the string s1.
vii) The expression rand()%6 produces random numbers in the range of _____ to _____.
viii) Programming in anembly language requires a _____.
ix) A constant is an entity, which remains _____during the execution.
x) A pointer is a variable that stores the _____ of another variable.
xi) _____ is a pictorial representation of the logic required to accomplish a task.
xii) Escape sequence \n means, end of _____.
xiii) The gets() and puts() functions deal with string _____ and _____.
xiv) The language which contains _____ is called machine level language.
xv) Int a[10], declares an _____ which can hold _____integer values.
xvi) A _____ can have different values at different stages of a program execution.
xvii) In C language, comments must be enclosed by _____ and _____.
xviii) To read a string _____ function may be used.
xix) The standard output is associated with _____(keyboard, printer, floppy)
xx) C is a _____level language. (low, high, both)

OR

1. Attempt all the questions given below

i) The function _____ is used to concentrate two strings.
ii) An _____ is a program is termed as bug.

iii) For storing number 32967, the variable must be declared as _____ (int, longint, char)

iv) _____ means strength of relations between modules.

v) The standard input is associated with _____ (keyboard, monitor)

vi) The function _____returns the length of a string.

vii) C is a _____ level language. (low, high, both)

viii) Pointer is a variable which holds _____of another variable.

ix) _____ and _____ are two information passed between modules.

x) In c, if an array is declared as a[10], the last element of array will be accessed by _____. (a, a[10], a[9])

xi) To read a string, function _____ is used. (gets, puts, printf)

xii) For executing a program in machine language _____ is required.

xiii) A variable name should not include any special character, except _____.

xiv) The _____loop enables repented execution of statements.(if, for, continue)

xv) A _____ is an entity, which requires same during the execution of a program.

xvi) The _____statement causes an explicit exit from the switch statement.

xvii) Format specifies %d is used to print a _____.

xviii) C provides two special operators _____ and _____ to increase and decrease a variable by 1.

xix) If the condition in a do while loop is initially false, it will execute _____ number of times.

xx) Strlen(s1) statement returns the _____ of the string s1.

SECTION – II

Note: Attempt any 6 questions. 5X6=30

i) Write an algorithm to print first 10 even numbers.

ii) How would you test and debug the program?

iii) Write short notes on: a) Assembler b) Compiler

iv) What are multidimensional arrays? How array are initialized?

v) What are null pointers?

vi) List the various data types. Enumerate with example.

vii) What are functions prototypes?

viii) Explain the basic structured programming constructs with suitable example.

SECTION –III

Note: Attempt any 5 questions. 10X5=50

1. What do you mean by maintenance? When it starts? Why it is required? Justify for answer with examples.
2. Write a pseudo code to find the factorial of a number given by user.
3. What are the activities involved in executing a high level language program on a computer?

4. Describe various quantitative measures of maintenance.
5. Write a program to compute the real roots of the quantitative equation.
6. Write a program to calculate the sum of all odd numbers in the range 1 to 100.
7. Write a program to generate first 20 numbers in Fibonacci series.
8. Discuss the role of various programming tools with suitable examples.