Punjab Technical University
BBA Examination 2007-2008

BBA Semester 5th PROGRAMMING IN C & C++ 2007

Time : 03 Hours Maximum Marks : 75
Instruction to Candidates:
1) Section - A is Compulsory.
2) Attempt any Nine questions from Section - B.

Section – A (15 × 2 = 30)

a) What is structured and unstructured programming?
b) What is the purpose of break and continue statements?
c) What is object-oriented programming?
d) Explain various logical operators in C/C++. Write them in order of their precedence.
e) Explain the syntax and purpose of strcat( ) and strcpy( ) functions.
f) What is the difference between = and = = operators?
g) Explain the difference between ++a and a++.
h) What is recursion?
i) What do you think is the reason of an error message "Misplaced else"?
j) What is the difference between array and structures?
k) List some of the illegal operations on pointers?
l) Explain the terms "default constructor" and "default argument constructor".
m) Explain the term "nesting of if-else".
n) List any two advantages of cout and cin over printf and scanf.
o) What is the size of one single float type of variable?

Section – B (9 × 5 = 45)

Q2) What do you understand by the term "object-oriented programming"?
Explain the terms: Encapsulation, inheritance, abstraction, polymorphism?
Q3) Write a program to find out the factorial of a number using recursion.
Q4) Write a program to test whether the number entered from keyboard is prime number or not.
Q5) Give and explain the syntax of while-loop, do-while loop and for loop.
What is the difference between while loop and do-while loop?
Q6) Write a program to add two matrices in C/C++.
Q7) Evaluate the following expressions:
(a) 2 + 3 * 5 % 9 – 6
(b) 4 * 5 – 6 * 3 % 2
(c) 6 >= 6 &&! (15 < 2)
(d) ! (15 >=2) ! (200)
(e) 4 + 5/2 – 3 + 6* 7 % 8
Q8) Write a program to find the sum of first n natural numbers.
Q9) Write a program to calculate the area and perimeter of rectangle taking care
that negative and zero values for length and width of rectangle are rejected by the computer.
Q10) Explain the syntax of if-else statement. Explain the term "nesting of if-else".

Q11) What are pointers? Explain “call-by value” and “call by reference” with examples.
Q12) Write short note on following statements:
(a) return (b) switch (c) break (d) continue
Q13) Write a program to find out the sum of n numbers inside the one-dimensional integer array.