CLASS IX COMPUTER APPLICATIONS FINAL EXAMINATION – MARCH' 07
SECTION – 'A', Attempt all questions

Q1.(a) Write the size and range of int, short, char and boolean data type. [10] (b) In Powerpoint, what does the Slide Sorter display ? (C) The keyboard shortcut for Copy and Paste is ? (d) Which escape sequences represent the newline character and the null character ? (e) Write two advantages of using functions in programs.	Q2.Differentiate between the following, with examples, wherever applicable. :- [10] (a) explicit and implicit conversion (b) break and continue (c) unary and binary operators (d) literal and identifier (e) embedded chart and chart sheet.
Q3.Fill in the blanks (Do not copy the sentences) :- [10] (a)_____ clause is optional in a switch statement. (b)_____ statement terminates the complete execution of a loop. (c)Smallest individual unit in a program is called _____. (d)Address of the cell at 20th column and 30th row is _____. (e)If you enter 12 + 24 in a cell , Excel will display _____. (f)The shortcut keys for opening an already existing presentation are _____. (g)The effect in which a slide is introduced in your presentation in Powerpoint is called _____. (h)_____ view in Powerpoint shows only one slide at a time, where it can be formatted. (i)In Powerpoint, the readymade buttons available to be inserted in a slide are called _____. (j)A function can return _____ values.	Q4.State true or false (Do not copy the sentences) :- [10] (a) When you increase the font size, the row height is automatically adjusted. (b)The function used in MS-Excel to find the largest value in the cells from A10 to A20 is Count (A10 : A20). (c)In Java , a real number is stored as double by default. (d)In Powerpoint , Clip Art is also available as a tool on Formatting toolbar. (e)Cells can be referenced in two ways : (i) absolute and (ii) relative. (f)By default, the numbers are left aligned and text values are right aligned. (g)The type and size of arguments constitute the function signature. (h)An identifier can start with a $ sign. (i)int x = 5 ; System.out.print (x + x++) ; will result in 11. (j)An empty or null statement is { }.

SECTION – 'B', Attempt any four questions

Q5. (a)   Prepare an interactive java program to input the basic salary for 15 persons. Each one of them gets 25% of basic as HRA, 15% of basic as conveyance allowance and 5% as medical allowance. The net salary is calculated by adding all allowances to basic. Display total salary for each person.
(b)Give the output : int c , a = 5 , b = 10 ;
                            c = ++a + b – – ;
                            System.out.print (c) ;   (13, 2)
Q6. Write a program in Java , using user-defined functions to display the following :
(a) First ten fibonacci numbers (b) Sum of the following series :   2 , 5 , 10 , 17 ………………….. 101.   (15)
Q7. (a)   Write a program using user defined function to display the sum of digits of an input number.
(b)Given: int a = 5 , b = 3 ;
                    double d = 1.5 ;
                    float f = (++b) * b – a ;
                    double c = a++ * d + a ;   What will c and f store ? Are any corrections required?   (13,2)
Q8. (a)   Write a program, using functions to enter ten numbers, one at a time and count the number of even factors of each number.
(b)   int A = 3,   B = 3 ,   C = –5 ;
           double d = A * C % B ;
           double f = A * B/C ;   What will d and f store ?   (13,2)
Q9. A Fair provides joy rides to kids at the following rates:

Age	Rate
upto 3 years	Free
4 to 12 years	Rs. 10
13 to 18 years	Rs. 30
above 18 years	Rs. 40

If 200 people take the ride on a particular day. Write a program to input age. Calculate and print the number of people in each category. Also print the total sale of the day.   (15)