COMPUTER SCIENCE2012

Time: 2 Hours 40 Minutes

Marks: 60

OPTION - I (PROGRAMMING USING 'C')

SECTION 'B' (SHORT-ANSWER QUESTIONS)

NOTE: Answer any 6 questions from this sect-

ion. No answer should exceed 6-7 lines. (36)

- 2.(i) What are the different types used in C language?
- (ii) What are the escape sequences? Define any five.
- (iii) What are the steps involved in creating a report in MS Access?
- (iv) What do DBMS and RDBMS stand for? State the advantages of DBMS.
- (v) Write a program to input three numbers and print the greatest one.
- (vi) What is an alogrithm? What is its importance in computer programming?
- (vii) Write a program that prints the squares of all the numbers from 1 to 20.
- (viii) Convert the following mathematical expressions into equivalent 'C' expressions.

(a)
$$x = \left(\sqrt{a^2} + \sqrt{b^2}\right)^2$$
 (b) $y = \frac{2ab}{(a+b)(a-b)}$ (c) $Z = \frac{a^m + b^n}{(m+n)^a}$

(ix) Write the output of the following statements of C program.

for (int i= 2; i < 10; i++)

nrintf "0/ d" i):

printf "%d",i); if(i%2==0)

continues; printsf("/n");

SECTION'C' (DETAILED- ANSWER QUESTIONS)

NOTE: Answer 2 question from this section.(24

- 3.(a) What is a flow chart? Describe different symbols used while drawing a flowchart.
- (b) How many relationships exist in MS Access? Explain in detail.
- 4.(a) What are the different operators used in C language? Write their precedence also.
- (b) what are the main objects in MS Access? (d)
- 5.(a) What is a control structure? Discuss any two control

(b) Define the term function. Discuss any five I/O functions used in C language.