

Karachi Board Computer Science Inter Part 2 Past Paper 2010

(SHORT-ANSWER QUESTION)

- 2.(i) Elaborate the basic structure of C program.
- (ii) Differentiate between any Three of the following:
(a) for and while (b) Primary key & Foreign Key
(c) Break and continue (d) Switch and if-else
- (iii) What is meant by Escape Sequence? Define different escape sequences with suitable examples.
- iv) Write a program using for loop that prints the factorial of an inputted number.
- (v) Write a program that input your age and your sister age and then display who is older of the two.
- (vii) What are three library functions? Discuss any three library functions.
- (viii) Write a program that generates odd No. from 101 to 150.
- (ix) What are the characteristics of a primary key?

SECTION 'C' (DETAILED- ANSWER QUESTIONS) (24)

- 3(a) what are Operators? Explain n Relational and Logical Operators with examples.
(b) Explain different types of flies used in C language.
- 4(a) Name the control structures used in C language and discuss iterative control structure with syntax.
(b) What are the advantages of Data Base Management System?
5. (a) What is user-defined function? What three elements must be used with a user-defined function?
(b)What data types are used in MS-Access? Discuss.

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2. (i) Define Relational operators with suitable examples.
- (ii) Convert the following mathematical expression into C- language:
- (iii) Define any Three I/O Functions with suitable examples.
- (v) Define IDE & discuss how it is useful in C programming.
- (vi) What is a function? What are the advantages of using functions?
- (vii) What is the output of following program statement?

```
for (a=1; a<10; a++)
```

```
printf ("%d" Pow (a,2);
```

- (viii) Elaborate the term primary key with its characteristics.
- (ix) Describe advantages of data base management system

SECTION 'C' (DETAILED_ANSWER QUESTIONS (24)

- 3(a) Explain Data types used in C language with 'suitable examples.
- (b) What are the main objects of MS Access?

4(a) what repetitive control structures are used in c? Discuss for () loop with example.

- (b) Define any three of the following:
- (i) Escape sequence (ii) Logical operators (iii) Header Files

5. (a) Write a program that prints all characters from O to 255.

- (b) Elucidate the term data base model. Explain relational database model.

SECTION 'B' (SHORT-ANSWER QUESTIONS) (36)

What are the different types used in C language?

What are the escape sequences? Define any five.

What are the steps involved in creating a report in MS Access?

What do DBMS and RDBMS stand for? State the advantages of DBMS.

Write a program to Input three numbers and print the greatest one.

What is an algorithm? What is its importance in computer programming?

Write a program that prints the squares of all the numbers from 1 to 20.

Write the output of the following statements of C program.

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

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

```
        continues;
```

```
    printf("\n");
```

```
}
```

SECTION 'C' (DETAILED ANSWER QUESTIONS) 24

3.(a) What is a flow chart? Describe different symbols used while drawing a flowchart.

How many relationships exist in MS Access? Explain in detail.

What are the different operators used in C language? Write their precedence also.

What are the main objects in MS Access?

What is a control structure? Discuss any two control structures with examples.

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

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2. (i) Define Source code and Object code.

(ii) Define Switch case statement with an example.

(iii) What are Escape sequences? Mention all sequences.

(iv) What will be the output of the following C-language program?

```
for(i=5 ; i> 0; i--)
```

```
for(j=1 ;j>=1 ;j++)
```

```
printf(“%d” ,i);
```

```
printf(“n”);
```

(y) Write a C -language program of character i/O which reads a character from a text file name ABC.TXT.

(vi) What is an Algorithm? Write different Algorithm standard notations.

(viii) Define various data types supported by MS-Access.

(ix) Write a program to generate prime number up to 11 (like 2 3 5 7 11)

SECTION 'C' (DETAILED- ANSWER QUESTIONS) 24

3. (a) Explain different data types used in C - language with examples of each.

(b) What is a loop? Define different loops used in C language.

4. (a) What is a Function? What are the major characteristics? of any function?

(b) Define database Model with diagram.

5. (a) Name the control structure used in C-language & discuss iterative control structure with syntax & example.

(b) What are format specifiers and how do we use them in C-language program?

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Q.2 (i) what is the basic structure of a 'C' program?

(ii) List all iterative control structures in C, explain any one of them with syntax,

(iii) Write a program in C that swaps two numbers.

(iv) What is a user defined function? Write its syntax.

(v) Write a function that returns the cube of any inputted number.

(vi) Define format specifiers in C-Language.

(vii) Write a program in C-language that prints the following:

```
1
22
333
4444
55555
```

(viii) What is relationship? State the kinds of relationships used in MS-Access.

SECTION 'C' (DETAILED. ANSWER QUESTIONS)

NOTE: Answer 2 question from this section.(24

Q.3 (a) Write a program that uses switch statement.

(b) Explain function prototype with an example.

Q.4 (a) Explain all types of operators used in C.

(b) Explain the data types used in C-Language with examples. How much space is reserved for each data type in memory?

Q.5 (a) Write the advantages of Database.

(b) Explain the objects used in MS-Access.

2.(i) What is the purpose of the statement `#include<stdio.h>` in a C program? What is statement terminator?

(ii) Define logical operators in C language.

(ii) Differentiate between while loop and the do-while loops

(iv) What are escape sequences? Give an example.

(y) List some of the advantages of database management system.

(vi) Write the full form of the following acronyms:

DML, DDL, SQL, IDE, RDBMS, OBA

(vii) What is a key field? Why is it important in DBMS?

(viii) Write a program that reads radius of a circle and displays the circle's area. Use this formula $\text{Area} = \pi \times \text{radius} \times \text{radius}$ where π is the constant whose value is 3.14159.

SECTION 'C' (DETAILED. ANSWER QUESTION)

3.(a) Explain the use of nested if-else statement

(b) Write a program that reads three numbers and prints the largest.

4.(a) Explain the data types used in MS-Access.

(b) Write a program in C to call a function which returns the cube of a given number.

5.(a) Explain various types of Database model.

(b) What are the commonly used input output functions in C? How are they accessed?

PROGRAMMING QUESTIONS

1. Write a program using for loop that prints the factorial of an inputted number.
2. Write a program that input your age and your sister age and then display who is older of the two.
3. Write a program that generates odd No. from 101 to 150.
4. Write a program that prints all characters from O to 255.
5. Write a program to Input three numbers and print the greatest one.
6. Write a program that prints the squares of all the numbers from 1 to 20.
7. Write a C -language program of character I/O which reads a character from a text file name ABC.TXT.
8. Write a program to generate prime number up to 11 (like 2 3 5 7 11)
9. Write a program in C that swaps two numbers.
10. Write a function that returns the cube of any inputted number.
11. Write a program in C-language that prints the following:
1
22
333
4444
55555
12. Write a program that reads radius of a circle and displays the circle its area. Use this formula $\text{Area} = \pi \times \text{radius} \times \text{radius}$ where π is the constant whose value is 3.14159.
13. Write a program that reads three numbers and prints the largest.

TOPIC WISE QUESTIONS

FUNCTIONS

1. What are three library functions? Discuss any three library functions.
2. What is user-defined function? What three elements must be used with a user-defined function?
3. Define any Three I/O Functions with suitable examples.
4. What is a function? What are the advantages of using functions?
5. What is a Function? What are the major characteristics? of any function?
6. Explain function prototype with an example.

MS-ACCESS

1. What data types are used in MS-Access? Discuss.
2. What are the main objects of MS Access?
3. How many relationships exist in MS Access? Explain in detail.
4. Explain the objects used in MS-Access.
5. Explain the data types used in MS-Access.

DATABASE MANAGEMENT SYSTEM

1. What are the advantages of Data Base Management System?
2. Elucidate the term data base model. Explain relational database model.
3. What do DBMS and RDBMS stand for? State the advantages of DBMS.
4. Define database Models with diagram.
5. List some of the advantages of database management system.
6. Role and responsibilities of DBA.
7. What is a key field? Why is it important in DBMS?

INTRODUCTION TO C LANGUAGE

1. What is the basic structure of a 'C' program?
2. Define IDE & discuss how it is useful in C programming.
3. What are escape sequences? Give an example.
4. What are Escape sequences? Mention all sequences.
5. What are format specifiers and how do we use them in C-language program?
6. Explain Data types used in C language with 'suitable examples'.

FILES

Define the files? How many types of files in C –language are discuss with examples

LOOPS

1. Discuss for () loop with example.
2. What is a loop? Define duff, loops used in C language.
3. Differentiate between while loop and the do-while loops

CONTROL STRUCTURES IN C

1. Explain the use of nested if-else statement
2. What repetitive control structures are used in c? Define Switch case statement with an example.
3. Name the control structures used in C language and discuss iterative control structure with syntax.
4. List all iterative control structures in C, explain any one of them with syntax,

OPERATORS IN C

1. Define logical operators in C language.
2. Explain all types of operators used in C.
3. What are the different operators used in C language? Write their precedence also.
4. What are Operators? Explain n Relational and Logical Operators with examples.

FLOW CHARTS AND ALGORITHM

What is an Algorithm? Write different Algorithm standard notations.

What is a flow chart? Describe different symbols used while drawing a flowchart.