



Roll No.

Answer Sheet No. 23

Sig. of Candidate. _____

Sig. of Invigilator. _____

COMPUTER SCIENCE HSSC-II

SECTION – A (Marks 15)

Time allowed: 20 Minutes

Version Number

1	7	7	8
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Note: Section – A is compulsory. All parts of this section are to be answered on the OMR Answer Sheet provided separately. It should be completed in the first 20 minutes and handed over to the Centre Superintendent along with the Question Paper. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there.

- 1) In MS-Access, which of the following report is used to display single record at a time?
A. Tabular B. Justified C. Columnar D. Datasheet
- 2) The following type of query is used to perform calculations on the data of numeric fields:
A. Parameter query B. Crosstab query
C. Select query D. Action query
- 3) Which of the following key combination is used to COMPILE a C program?
A. Ctrl+F5 B. Ctrl+F9 C. Alt+F5 D. Atl+F9
- 4) Which programming structure executes program statements in order?
A. Sequence B. Repetition C. Relation D. Decision
- 5) C is strongly typed language, it means:
A. Variable declaration also defines the variable
B. Sufficient data types are available to manipulate each data
C. Every program must be compiled before execution
D. Every variable must be declared before it is being used
- 6) The format specifier %u is used for:
A. Unsigned decimal integer B. Unsigned long integer
C. Integer D. Unsigned short
- 7) If a is an integer variable, $a = 5 / 2$; will return a value:
A. 2.5 B. 5 C. 0 D. 2
- 8) Pick the odd one out:
A. $a++$; B. $a+=1$; C. $a=a+1$ D. $a+=1$;
- 9) The logical And (&&) operator is a:
A. Ternary operator B. Bitwise operator
C. Unary operator D. Binary operator
- 10) In which sequence the while loop is executed?
A. Execution of body, initialization, testing B. Testing, initialization, execution of body
C. Initialization, testing, execution of body D. Initialization, execution of body, testing
- 11) Which of the following shows the correct hierarchy of operations in C?
A. $> * =$ B. $= * >$ C. $= > *$ D. $* > =$
- 12) Which of the following is true about a function call?
A. Transfers control to the called function B. Stops the execution of the program
C. Transfers control to the main function D. Resumes the execution of program
- 13) Which of the following file opening mode opens an existing file for both reading and writing?
A. "a+" B. "r+" C. "w" D. "r"
- 14) Which of the following specifies the number of instances of an entity?
A. Relation B. Integrity C. Degree D. Cardinality
- 15) The foreign key is found in:
A. Dependent table B. Index table
C. Parent table D. Pivot table

For Examiner's use only:

Total Marks:

15

Marks Obtained:



COMPUTER SCIENCE HSSC-II

24

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Answer any thirteen parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 39)

Q. 2 Answer any THIRTEEN parts. The answer to each part should not exceed 5 to 6 lines. (13 x 3 = 39)

- (i) Write down three characteristics of C language.
- (ii) Differentiate between compiler and linker.
- (iii) Write down the purpose of include directive.
- (iv) For what purpose variables are declared.
- (v) Compare logical error with syntax error. Give an example also.
- (vi) Write down different types of comments.
- (vii) What is an assignment statement?
- (viii) Define escape sequence. Give purpose of two commonly used escape sequences.
- (ix) Write down the purpose and syntax of **for** loop.
- (x) Distinguish between actual and formal parameters.
- (xi) Briefly explain the purpose and syntax of **fputs ()** function.
- (xii) What is the purpose of "r", "w" and "a" file accessing modes?
- (xiii) What would be the output of the following program?

```
#include<stdio.h>
void main(void)
{
    int a , b , c;
    a=6;
    b=++a;
    c=b++;
    printf("%d \t %d \t %d" , a , b , c);
}
```

- (xiv) Indicate and correct the errors in the following code (if any)?

```
#include<stdio.h>
void main(void)
{
    int x = 10;
    if(x > 10);
        x =* 5;
    else
        x = 5;
    printf("value of x = %d, x);
}
```

- (xv) What is the purpose of following data types in MS-Access?
a. Memo b. Number c. Date/Time
- (xvi) What are the tasks performed by DBA?
- (xvii) What is one-to-many relationship? Illustrate with example.

SECTION – C (Marks 21)

Note: Attempt any THREE questions. All questions carry equal marks. (3 x 7 = 21)

- Q. 3 Create a C program to print the multiplication table of the number entered by the user. The table should get displayed in the following form. (07)
- ```
17 * 1 = 17
17 * 2 = 34
...
```
- Q. 4 a. Write down the use of **break** statement and **default case** in switch statement? (03)  
b. Describe the importance of functions. What is a function call? Illustrate with an example. (04)
- Q. 5 a. What is a relation? Write down the properties of relation. (01+02)  
b. Explain following types of keys: (04)
- i) Primary key    ii) Secondary key    iii) Composite key    iv) Foreign key
- Q. 6 a. Write a brief note on: i) Data base    ii) Entity Relationship Diagram (02+02)  
b. What is a form? Discuss its types. (01+02)