Roll No. Sig. of Candidate.

	Still	
Answer Sheet No	GET.	
Sig. of Invigilator	StudentBount	
HSSC-II	3.00	
(5)	13	
e answered on the question	on paper itself.	

COMPUTER SCIENCE HSSC-II

SECTION - A (Marks 15)

		SECTION -	- A livial No
Time allowed:	20 Minutes		

NOTE:-	Section-A is compulsory. All parts of this section are to be answered on the question paper itself.
	It should be completed in the first 20 minutes and handed over to the Centre Superintendent.
	Deleting/overwriting is not allowed. Do not use lead pencil.

		ct option i.e. A / B / C / D. Each pa		
(1)		es the # sign indicate in an instructio		
		Instruction for the programer	B.	Instruction for the compiler
(ii)		Instruction for the linker f the following components is used to	D.	Instruction for the user
(ii)		Compiler and header	B.	Compiler and linker
		Header and linker	D.	Compiler only
(iii)				erase a character left to the cursor position?
	A.	\b	В.	\del
	C.	\f	D.	\C
Chal	A CONTRACTOR OF THE PARTY OF TH			v Afficance
(iv)		f the following logical operators has t		
	Α.	!	B.	!=
	C.	& &	D.	
(V)	What do	the C statements end with?		
		Comma	B.	Colon
	0.70	Semi Colon	D.	Full Stop
(vi)	If the va	lue of $x = 10$ and $y = 5$ then what v	vould be	the output of the expression $x > y$? $x * y : x + y$
	Α.	5	B.	10
	C.	15	D.	50
(vii)		for loop more appropriate than while		
		The termination condition is known in		
		The number of iterations is not know		ince.
		The loop should be executed once or		
75 (1115)		The loop should be executed at least		
(viii)		ase consists of various components of		Entities
		Objects Properties	B. D.	Tools
(ix)		f the following is true for <i>return</i> state		
(1//)		It can return one value only.	В.	It can return integer value only.
		It cannot return any value.	D.	It cannot be used in a function.
(x)				to open a file then what would be the
1.17	11	ry condition?	10 0000	to open a me men mar near a come
		The file must already exist	В	The file should be data file only
		The file must contain valid student da		The type of file must be read only
(xi)				ich gives the order of the records when
(***)		sorted on a particular field?		or greet the order of the records thren
		Query	B.	Primary key
		Secondary key	D.	Index
(xii)		f the following terms is related to the	feature o	of cascading deletion?
	A.	Data integrity	B.	Data redundancy
	C.	Referential integrity	D.	Indexing
(xiii)		another name for all the attributes ab	out an er	•
		Field	В.	Record
4.7.4		File	D.	Database
(xiv)		f the database objects allows to extra		
		Queries	В.	Forms
(211)		Records	D.	Fields
(xv)		ype of report, each field appears on a Sales report	a separa B.	
		Tabular report	D.	Columnar report
		LENGTH LENGT	b-0 .	- Columnia (CDOIL

Marks Obtained:



COMPUTER SCIENCE HSSC-II

Student Bounts, com Total Marks Sections B and C: 60

Time allowed: 2:40 Hours

NOTE:- Sections 'B' and 'C' comprise pages 1-2 and questions therein are to be answered on the separately provided answer book. Answer any thirteen parts from Section 'B' and attempt any three questions from Section 'C'. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 39)

Q. 2	Attempt any THIR	TEEN parts. The	answer to each part s	hould not exceed 5 to 6 line	es. $(13 \times 3 = 39)$
------	------------------	-----------------	-----------------------	------------------------------	--------------------------

(i)	What is the purpose of following statements in a C-language source program? a. # include <stdio.h> b. # include<conio.h></conio.h></stdio.h>	01 01
(ii) (iii) (iv) (v)	c. # include <math.h> State three differences between Global variables and Local variables. Write down three advantages of High Level Language with respect to Machine Level Language. Define Field and Record. Write the output of the following statements:</math.h>	01 03 03 03
(*)	a. $(7\%2)^*(++x)$ where $x=2$	01
	b. $(n < 10) (n > 25)$ where $n = 25$	01
	c. $a \parallel b \&\&c$ where $a = 5, b = 10, c = 15$	01
(vi)	What is a Loop?	03
(vii)	Consider the following piece of C-language program: int <i>number</i> , <i>f</i> , <i>i</i> ;	33
	<pre>printf("\n Enter a number:");</pre>	
	Scanf ("%d", & number);	
	f=1;	
	$for(i=1; i \leq number; i++1)$	
	f = f * i;	
	printf("The value of f is $%d$ ", f);	
	a. Write the output of the code if $number = 5$.	01
(viii)	 Rewrite the program by using while loop. Write advantage of Referential Integrity 	02
(VIII)	b. Define Data Redundancy.	01
(ix)	Compare the if-else structure and conditional operator and:	
	a. Write syntax for both.	01
	b. Write one difference between the both.c. Write one similarity in both.	01
(x)	Define the following terms:	01
	a. Function body.	01
	b. Function parameters and arguments .	01
(xi)	 Return value. Write three advantages of the switch statement in C-language. 	01
(xii)	What is the difference between Primary key and Secondary key?	03
(xiii)		03
(xiv)	A hospital has ten departments and some workers working in these	
	departments. The hospital staff is conducting a research work on three abnormalities i.e. physical, mental and psychological. The staff working	
	on mental abnormalities can also work on psychological abnormalities.	
	Draw an ER-Diagram which satisfies the above system.	03

SHILDENHOUNKY.COM

Complete the following table by using MS-Access rules:

Student ID	Name	DOB	Co-curricular activity (Yes/No)

	b.	Which field is suitable for becoming primary key and why?	01
	C.	What is the data type of field "Curricular Activity Yes/No?	01
(xvi)	a.	Define Query.	01
	b.	Write a query to display all the records from a table EMPLOYEE.	01
	C.	Write a query to delete all the record from the table.	01
(xvii)	Defin	ne the following terms:	
	a.	Data Inconsistency	
	b.	Data Dependency	1-1/2
			1-1/2

SECTION - C (Marks 21)

Note:- Attempt any THREE questions. All questions carry equal marks.

 $(3 \times 7 = 21)$

Q. 3 a. The function fopen() is used to open a file. Write the fopen() with required parameters to:

	rod parameters to.	
(i)	Open a file for reading.	0.1
(ii)	Open a file for writing.	01
(iii)	Open a file for reading and writing.	01
(IV)	Open a file for appending data.	01
(v)	Open a file for overwriting.	01
(vi)	Open a file for reading and appending.	01
How	is a file closed?	0.1

- Q. 4 Write a program in C-language which accepts the weight in pounds and converts it into kilograms by using a function. The relationship between pounds and kilograms is as below:
 1 Pound = 0.4536 kilogram
- Q. 5 Complete the following table to show the values of variables used in the program during each step of Execution:

Program:

b.

```
int i, j, count = 3, product;

for(i = 1; i < count; i + +)

{

for(j = 1; j <= i; j + +)

product = i * j * j;

printf("%d \ ", product);
```

i	j	Count	Product

Q. 6 a. What is meant by Database?
b. Briefly describe three database objects.