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Answer Sheet No	
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## COMPUTER SCIENCE HSSC-II

**SECTION - A (Marks 15)** 

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.											
Q. 1	Circle the correct option i.e. A / B / C / D. Each part carries one mark.											
	(i)	A well	-defined set of in	nstructio	ons given to the c	ompute	r is called:					
		A.	Hardware	B.	Software	C.	Dat <b>a</b>	D.	Information			
	(ii)	The p	rocess of conve	ting so	urce code into ob	ject cod	le is known as:					
		Α.	Compilation	В.	Debugging	C.	Linking	D	Information			
	(iii)	a+=b	b is equivalent to	);								
		A.	b += a	₿.	a = +b	C.	a = a + b	D.	b = b + a			
	(iv)	How r	many bytes of m	emory i	s used by 'char' o	lata type	e in C?					
		A.	1	В.	2	C.	3	D.	4			
	(v)	Which	n of the following	format	specifier is used	for integ	ger data type?					
		A.	%f	В.	%i	C.	% <i>c</i>	D.	%d			
	(vi)	Which	n of the following	is used	d as 'not equal to'	operato	or in C language	relationa	il expressions?			
		A.	=	B.	<>	C.	!=	D.	><			
	(vii)	In C-la	anguage the info	rmation	n about input and	output	functions is store	ed in	header file.			
		A.	math.h	B.	stdio.h	C.	string.h	D.	conio.n			
	(viii)	If $a =$	15 and $b = 10$ ,	what wi	Il be the output o	f the foll	lowing expression	n?				
		a > b? $a - b$ : $a + b$ ;										
		Α.	15	B.	25	C.	5	D.	150			
	(ix)	What	is a loop within	another	loop called?							
	, ,	Α.	Inner loop	В.	counter loop	C.	Sub Loop	D.	Nested Loop			
	(x)	Function declaration (prototype) does NOT contain:										
		A. C.	A. Function name			B. D.	Function return type Function body					
	(xi)	In C v	which mode ope	ns the e	existing file for bot	h readi	ng and writing?					
		A.	"w"	B.	"rw"	C.	"r-+"	D.	"a+"			
	(xii)	"In file processing system, the same data may be duplicated in several files". What is this drawbac called?										
		A. C.				B. D.	data inconsis data integrity					
	(iiix)	A person, place, thing or event about which data is kept in the database is called:										
		A.	an attribute	B.	a field	C.	an entity	D.	a record			
	(xiv)	"A red	cord from a table	e canno	t be deleted if its	associa	ted record exists	s in relate	ed table". What is this			
		- d <b>atab</b>	base rule called?									
		A. C.	Relationship Normalization	1		B. D.	Referential ii Schema	ntegrity				
	(xv)	is used to retrieve data from a da				abase a	and present it to	the user i	in formatted way			
		A.	Report	B.	Table	C.	Query	D.	Form			
	For E	xamine	er's use only:		W		al Marks:		15			

Marks Obtained:

—— 2HA 1712 ——

(2+3)



b.

one example each.

## COMPUTER SCIENCE HSSC-II

Time allowed: 2:40 Hours Total Marks Sections B and C: 60 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) Answer any THIRTEEN parts. The answer to each part should not exceed 5 to 6 lines. Q. 2  $(13 \times 3 = 39)$ What are high level languages? How these languages are different from assembly language? (2+1) (ii) What is Integrated Development Environment (IDE)? Differentiate between source program and object program. (2+1)(iii) How variables are declared in C? Give two examples. (2+1)(iv) Give purpose of the following escape sequences with one example each. (3) (3)What are relational operators? Give examples. (v) (2+1)State three differences between syntax errors and logical errors. (vi) (3)(vii) Give syntax of the for() loop and describe how it works? (3)(viii) Give output of the following program code: (3)void main(void) int a b  $for(a=2; a \le 4; a++)$ for(b=a;b<=3;b++)printf("\n %d",a\*b): } (ix)Write a program code in C that reads a number (n) and prints its multiplicative table up to 20. (3)Write a program code in C that reads temperature (t) and prints a message as given below: (x)(3) **Temperature** Message t > 35It is hot. t > = 20 and t < = 35It is nice day. t < 20It is cold. (xi) Why loops are important in programming languages? Give three reasons. (3)What is function header? Give its general form and one example. (xii) (1+1+1)(iiix) Write a C program statement to open a file "test.txt" in writing mode. (3) (xiv) What is one-to-many relationship between two entities? Give one example. (2+1)What is DBMS? Give any two advantages of it. (xv)(2+1)(ivx) Why primary key is important in database file? (3)Give any three advantages of using Forms in Access. (xvii) (3) SECTION - C (Marks 21) Note: Attempt any THREE questions. All questions carry equal marks.  $(3 \times 7 = 21)$ 0.3a. What is an expression? Explain any three types of expressions and their operators with examples. (1+3)b. Write a program code in C to find the sum of odd numbers from 1 to 100. (03)What is decision control structure? Explain different types of decision control statements used Q. 4 in C language (with purpose of use and syntax). (07)Q. 5 a. Explain the process of compiling, linking and executing a C program. (03)Write a program code in C to read three numbers using scanf() function and find the largest number. b. (04)Q. 6 Give any four drawbacks of traditional file approach system. a. (02)

What is entity relationship diagram (ERD)? Define the terms Entity, Attribute and Relationship with