Warning:- Please, do not write anything on this question paper except your Roll No.

1224 (Inter Part - II)

(Session 2020-22 to 2022-24)

Roll No

Computer Science (Objective)

Paper (II)

Sig. of Student -----

Time Allowed:- 20 minutes

PAPER CODE 4833

Maximum Marks:- 15

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed. (MS-ACCESS)

white co	orrecting ti	uid is not allowed.	(IVIS-ACCESS)			
S.N.		Questions	A	В	C	<u>D</u>
1.	The num	per of fields in a relation is called	Degree	Cardinality	Domain	Range
	the	of the relation.				
2.	Which of file?	the following may be a temporary	Transaction	Master	Backup	Basic
3.	The numl	per of characters in variable-length	1	2	Constant	Variable
4.		s, cars and parts are examples of	Attributes	Relationships	Entity _	Cardinality
5.	A relation	that is in 2NF and contains no	1NF	2NF	3NF	4NF
		dependency is said to be in				
6.		lest meaningful unit of data in a	Character	File	Record	Field
	database		1	Null	END	
7.	(C.Lng)	On successfully closing a file? The fclose() returns:		Nun	END	0
	OR (VB)	You can enter data in a control only when it has	control	tab order	mask	focus
8.	(C.Lng)	stdio stands for	simple in	Standard input output	Symbolic input output	String input output
	OR (VB)	window contains statements that are executed	prine explorer	Code	form	form layout
		when some event occurs?				
9.	(C.Lng)	Which of the following is a valid character constant?	abc	(3) •	"abc"	+
	or (VB)	The property that changes text color is	back color	fore color	font color	text color
10.	(C.Lng)	a+=b is equivalent to	a a tb	a=+b	b+=a	b=b+a
	or (VB)	Variables name can not begin with	number	upper case	Lower case	underscore
11.	(C.Lng)	What will be the value of s after executing the following statement s=(2000>3000)2 2000:3000;	2000	3000	20003000	5000
	OR (VB)	One execution of a loop is known as	duration	interation	turn	cycle
12.	(C.Lng)	Which of the following is not a selection statement?	break;	if	if else	switch ()
	OR (VB)	is an example of post test loop.	do loop while	while	do while	do until
13.	(C.Lng)	A loop within a loop is called	Infinite	Complex	Nested	Standard
	or (VB)	Image control holds a graphic that is assigned to property.	caption	text	picture	antosize
14.	(C.Lng)	Another name for built-in function is	user- defined	Library	custom- made	customized
	or (VB)	A control that provides an identifiable grouping for control is	Text Box	Frame	Button	list box
15.	(C.Lng) OR (VB)	If int b=123, then the statement printf("%5d",b) will display. The Integer data type in VB	"123"	123	123	123
		occupies bytes	11	10		

Warning:- Please, do not write anything on this question paper except your Roll No.

24 (Inter Part-II)

(Session 2020-22 to 20222-24)

Computer Science (Subjective)

Time Allowed: 2.10 hours

SECTION -----I

Maximum Marks: 60

Paper (II)

 $6 \times 2 = 12$

Answer briefly any Six parts from the following.

(MS-Access)

Define data file with example? (ii) What are two responsibilities of DBA?

Identify Primary key and foreign key from following tables structures?

Roll No	Name	City	Roll No	Subject	Marks
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Table 1 Table 2

-) What is meant by user processing requirements? (v) Write the purpose of feasibility study?
-) Why is normalization used? (vii) Which database objects can be used to create a report?
- ii) Define referential integrity? (ix) Differentiate between Form and Report? Answer briefly any SIX parts from the followings:-

$6 \times 2 = 12$

C - Language

What is variable initialization?

Write down the equivalent C statement for: (a-b)²

Find errors in the following code segment

int x = 10 + 20;

scanf("%d", x);

printf("value of x = ", x);

What is the output of the following code segment. (iv)

int x = 2, y = 3, z;

z = (x+5) / (y+5);

printf("%d",x+y+z);

Differentiate between getch() and getche() functions.

Find the errors in the following code segments.

int
$$L = 10$$
, $W = 5$, A;

L * W = A:

printf("Area = %d", Area);

What is the output of the following code segment. (vii)

char ch1 = 'A', ch2 = 'B';

ch1 = ch2;

ch2 = ch1;

printf("%c %c", ch1, ch2);

Differentiate between text stream and binary

stream.

What is an EOF?

Visual Basic

- What is variable initialization? (i)
- (ii) Write down the equivalent VB statement for: (a-b)²
- (iii) What is form layout window? What is its purpose?
- What is the format of constant to define color in VB.
- (y) Define scale Mode property.
- Define Window State property.
- What is the purpose of Fixed Dialog style?
- What is the purpose of Tag property of Text box control.
- How can you verify that a Listbox item (ix) is selected or not?

 $6 \times 2 = 12$

Answer briefly any Six parts from the followings:-C – Language

Define control structure.

Determine the output

int
$$a = 1$$
, $b = 5$;

if ((a+b) < 6)

printf("Result=%d",b);

printf("Answer=%d",a+b);

What is sentinel value?

- Visual Basic Define variant data type.
- What is meant by name of a variable. (ii)

Describe implicit variable declaration.

--(2)--

C- Language

(iv) Write the output of the following code K = 0; while(K<=5) {
 printf("%3d%3d\n",K,10-K); K++;

- (v) Convert the following code by using for loop
 int count = 1;
 while (count <=10)
 {
 printf("%d\n",count);
 count++;
 }</pre>
- (vi) Describe unstructure programming.
- (vii) What is function header?
- (viii) Define actual parameters.
- (ix) Write any two benefits of user defined functions

Visual Basic

(iv) Write the syntax of input BOX.



(v) What is the purpose of Val function?

- (vi) Write the syntax of IF-THEN structure
- (vii) Define compound comparison.
- (viii) Describe the purpose of continue statemen
- (ix) Write the syntax of Wile-Wend loop

SECTION ----- II

Note: Attempt any ONE question.

MS - ACCESS

 $(8 \times 1 = 8)$

- 5. Define DBMS. Explain different features of a dbms?
- 6. Explain different data types available in MS-Access

SECTION 11

Note: Attempt any TWO questions either from "C-Language" OR from "Visual Basic". (8 × 2 = 16)

7. C-Language Briefly describe the basic structure of C program?

7. -OR-Visual Basic Briefly describe the basic structure of Visual Basic program?

8. C - Language Write a program that inputs temperature and displays a message according to the following data.

Temperature	Message
Greater than 40.	Hot day
Between 25 and 40 (inclusive)	Pleasant day
Less than 25	Cool day

8. -- OR--Visual Basic

Write a program that inputs temperature and displays a message according to the following data.

Temperature	Message
Greater than 40	Hot day
Between 25 and 40 (inclusive)	Pleasant day
Less than 25	Cool day

9. C - Language Write a program

Write a program in C-Language that display numbers from 1 to 20 and also compute and display their sum and average by using loop.

9. -- OR--Visual Basic

Write a program in VB that display numbers from 1 to 20 and also compute and display their sum and average by using loop.

1236 -- 1224 -- 20000

1223 (Inter Part - II)

(Session 2019-21 to 2021-23)

Roll No -----

Computer Science (Objective)

Paper (II) Sargodha Board-2023 sig. of Student ---

Maximum Marks:- 15

Time Allowed: - 20 minutes PAPER CODE 4831

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or

white correcting fluid is not allowed. (MS-ACCESS)

write c	orrecting if	uid is not allowed.	(MS-ACCESS)			
S.N.		Questions	A	В	C	D
1.	file?	the following may be a temporary	Master file	Transaction file	Back up file	Random file
2.	The forei	gn key found in:	Parent table	Dependant table	Pivot table	Index table
3.		distribution which kind of	Critical	Critical and	non-critical	only large
		s are stored at only one site:	fragments	non-critical	fragments	fragments
				fragments		
4.	In relatio	nal database, a table is also called	Tuple	Relation	File	Schema
5.		ny types of queries are available in Access?	4	3	2	5
6.	Which ty a time?	pe of Form displays one record at	Tabular	Columnar	Datasheet	Justified
7.	(C.Lng)	Preprocessor directives are		Language		
		commands for:	Micro	Processor	C	Loader
	or (VB)	The rectangle symbol in a flow	processor		Preprocess	1
		chart indicates:	Condition	Input	or	Out put
		Chart mateures.	Condition	I III I	Process	Out put
8.	(C.Lng)	Select a language that requires no	C Language	Assembly		Machine
0.	(6.2.8)	translator to execute the program:	Comigue	Language	C++	Language
	OR (VB)	In visual Basic, a form is another	Label	Method	Property	Object
	L	name for a(n):	200	Victiod		Object
9.	(C.Lng)	Program variables are created in:	1 2/2	RAM	ROM	Hard disk
9.	(C.Ding)	Program variables are created in.	Cache	KAW	KOM	Hard disk
	or (VB)		Sacric			
	OR (VB)	34 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Style			11
	11	Methods characterize an object's.	Style	Behavior	Value	Appearance
	[Adv			1	11
- 10	[(01)				<u> </u>	
10.	(C.Lng)	Float data type requires memory of:	1 byte	2 bytes	4 bytes	8 bytes
	or (VB)	The MOD operator is used for:	Division	Multiplication	Integer Remainder	Exponentiation
			1	Avenue Avenue		
11.	(C.Lng)	The symbol used for modulus	&&	%		
	}	operator is:			==	Divide
	OR (VB)	Relational operators are used to:	Add	Compare	Multiply	2012/06/2012/06/2012
		Trouble of the state of the sta	numbers	numbers		numbers
12.	(C.Lng)	The format specifier % f is used	int	char	float	long
	\	for:		, v.i	""	l
	or (VB)	One execution of loop is known	Duration	Test	Iteration	Continuity
	0(1.2)	as:	Duration	lest	iteration	Continuity
	L	as.	P! !!	1 11	1 1	[]
13.	(C.Lng)	Conditional operator is an	nested if	if-else	if	switch
13.	(0.2	alternative of:	nested if	ii-eise	14	Switch
		alternative or.		1 1 1	1	11
	O/P)	A independent of the control of the	String	Integer	Boolean	Currency
	or (VB)	An index can be of the data type:	Sung	Integer	Boolean	Currency
14.	(C.Lng)	Which loop structure always	for		while	while-do
		executes at least once:		do-while		Command
	or (VB)	Which control provides an	Text Box	Frame	Label	Button
	""("")	identifiable grouping for controls:	I CAL DOX	Control		Julion
	(01-1)					
15.	(C.Lng)	Which of the following looks for	Processor	Linker	Loader	Compiler
		the prototypes of functions used				
	11	in a program?	II	7		
			HI lahai ii	I AVT I	limer	()man
	or (VB)	Example of a windows common dialog box is:	Label	Text	Timer	Open

1222	Warning:- Please, do not write anything on this (Inter Part-II) (Session 2	question	paper except your Roll No to 2021-23)	<u>).</u>
	omputer Science (Subjective)	017-21 (Paper (II)	
	ne Allowed: 2.10 hours		Maximum Mar	·ks: 60
	SECTION			
2. A	nswer briefly any Six parts from the following.	•	(MS-Access)	$6\times 2=12$
(i) Wh	nat do you mean by data independence? (ii) What	at is view	w? (iii) Define end user.	
(iv) V	Why is normalization used. (v) What is homonyn	n?		
(vi) W	hat is database wizard? (vii) Define cardinality.	(viii)	How are records sorted in	a query?
(ix) V	Vhat is checkbox?			
3.	Answer briefly any SIX parts from the follow C - Language	vings:-	Visual Ba	$6 \times 2 = 12$ sic
(i)	Why main function is imoportant in every C	(i)	What is translator?	
	Language program?			
(ii)	Differentiate between structured and unstructured	(ii)	How are controls placed on	Form?
<i>(</i> ***)	programming languages.			
(iii)	Define the "IDE" of turbo C++.	(iii)	Who is programmer?	
(iv)	What is object program?	(iv)	Distinguish between Loa events.	d and Unload
(v)	What is user-defined identifier?		What is enable property?	
(vi)	What will be the value of X (integer variable)	(vi)	Define implicit declaration	on.
	X=3%10% Z;	*	90.	
(vii)	What will be the output of the following code? printf("%d", 'a'+'b');	(vii)	Define Input box.	
(viii)	Trace error from the following code:	(viii)	How controls are aligned	left?
	int x;			
	scanf ("%d", x);	Assaud a Newton's trumpin (as Metho A-bit Furna		
(ix)	Differentiate between new line and EOF	(ix)	How to make controls of	equal site?
4.	marker. Answer briefly any Six parts from the follow	kcity. ings:-	org	6 × 2 = 12
(i)	C - Language What is the use of scanf () function? Write its	(i)	Visual Ba Write two properties of	
(•)	syntax.	(•)	write two properties of	an Angorithm.
(ii)	Describe the term Format specifier in	(ii)	What is the difference b	etween hiding
	C-language		and closing a Form?	
(iii)	Trace the output of the following code segment:	(iii)	Define implicit declarat	ion.
	int x=0, y=5, 2=4;			
	x = x+y*2;			
	y=x-y/2;	94		
	printf("%d%d", x,y);	kcity.	org 🐲	
(iv)	Define conditional operator. Write its syntax	(iv)	Describe default proper	ty of command

1230 -- 1223 -- 20000

P.T.O

button.

Sargodha Board-2023 C- Language Visual Basic Trace the output of the following code segment: (v) What is pop up menu? int p=3, q=5; if((p>q)11(p!=4))p=p+1;else q=p-1; printf ("%d%d", p, q); Write an expression in C-Language for the (vi) Convert the following code into (vi) while----wend loop. following: Y is greater than X and less than Z. Dim a As Integer For a=1 To 25 step 2 IF (a Mod 7<>0) Then Print (a) End If Next What is Visual Basic event? What is meant by loop? (vii) (vii) Why is sentinel value used in loop? Differentiate between methods and (viii) (viii) properties. Define combo box control. Convert the following code into while () loop. (ix) (ix) ZEREY OR int a; for $(a=1; a \le 25; a+=2)$ if (a%7!=0)print f("%d\n", a); $(8 \times 1 = 8)$ MS - ACCESS Describe the file types from usage print of view? Briefly describe basic data distribution strategies. **SECTION --**-- III

Note: Attempt any ONE question.

5.

6.

Note: Attempt any TWO questions either from "C - Language" OR from "Visual Basic". C-Language Define "nested if" statement. Explain its working with Syntax, Flowchart and Example.

7. --OR--Visual Basic Define "Nested if-Then-Else" structure. Explain its working with Syntax,

Flowchart and Example.

Write a program in C-Language which prints the sum of the following series by 8. C - Language

using loops

1+4+9+16+25+....+256

--OR--Visual Basic 8. Write a program in VB which prints the sum of the following series by using



loops

1+4+9+16+25+....+256

9. C - Language What are global variables? Explain their scope and life time with an example.

--OR--Visual Basic 9. What are global variables? Explain their scope and life time with an example.

1230 -- 1223 -- 20000

122	22 Warning:- Please w					Roll No
	(Inter Part – II)	(Session 2			U	Student
Ch	emistry (Objective)			up – I	Paper	(II)
Tir	ne Allowed:- 20 minutes	F	APER	CODE 448	5 Maxi	mum Marks:- 17
Not	e:- You have four choices for	each objective	type questi	ion as A, B, C and	d D. The choice v	which you think is correct; fill
that	circle in front of that question	n number. Use	marker or	pen to fill the cir	cles. Cutting or fi	lling two or more circles will
resu	It in zero mark in that question	n. Write PAPE	R CODE, v	which is printed (on this question p	paper, on the both sides of the
	wer Sheet and fill bubbles acc te correcting fluid is not allow		wise the stu	Q.1	onsidie for the situ	ation. Use of Ink Remover or
	Major source of acid dep		nosnhere i			
1)	-	(B) SO ₂	nosphere	(C) SO ₃		(D) N ₂ O
2)	(A) SO		ic	(C) 503		(B) 1120
2)	Residence time of NO in			(C) 3 day	170	(D) 4 days
2\	(A) 1 day	(B) 2 day	0.07			(D) 4 days
3)	Which among the follow		est value o	(C) Mg	2+	(D) Al ³⁺
	(A) Li [†]	(B) K ⁺		(C) Mg		(D) AI
4)	Down's cell is used to pr	-		(C) C 1	A.1	(D) C- 1: b
	(A) Sodium carbonat			nate (C) Sodi	um metal	(D) Sodium hydroxide
5)	Which element forms an		rge +3	(5) 5 (6)	200	(T) (I)
	(A) Be	(B) Al		(C) C		(D) Si
6)	Oxidation of NO in air p			P(35)		
	$(A) N_2O$	(B) N ₂ O	3	(C) N ₂ O	4	(D) N_2O_5
7)	Which is the strongest A			5		
	(A) HClO	(B) HCl	-4-11	(C) HC	Q_3	(D) HClO ₄
8)	Which of following is a	typical transi	tion metal	?	*	
	(A) Sc	(B) X	100	(C) Ra	1997 A.	(D) Co
9)	Which set of hybrid orbi	tals have plan	nar triangu	ılar shape		•
•	(A) sp ³	$(B) sp^2$		(C) sp		(D) dsp ²
10)	$\beta - \beta'$ – dichloroethyl su	uphide is cor	nmonly kr	nown as		
,	(A) Mustard gas		ghing gas	AND AND ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSON	sgene gas	(D) Bio-gas
11)	Aromatic hydrocarbons					
,	(A) Normal series of			(C) Benz	zene	(D) Cyclohexane
	paraffins	(2)		pakeny.	rg.	
12)	Which one of following	is not a nucl	eonhile			
14)	(A) H_2O	(B) H ₂ S	copinio.	(C) BF ₃		(D) NH ₃
12\	–		about	(C) DI 3		(2) 1.123
13)	Rectified spirit contains	(B) 85%		(C) 90%		(D) 95%
4.6	(A) 80%	` '		(C) 3070		(B) 7370
14)	The Carbon atom of carb	•		3.		m 1 21 1 111 1
	(A) sp hybridized	(B) sp ² l	ybridized	$(C) sp^3$	hybridized	(D) dsp ² hybridized
15)	The solution of which ac	id is used for	seasoning	g of food		
,	(A) HCOOH	(B) CH ₃	СООН	(C) C ₆ H	5COOH	(D) CH ₃ CH ₂ CH ₂ COOH
160	Which is synthetic polyn			. , ,		New 1 1 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1
/	(A) Animal fat	(B) Starc	h	(C) Cellu	lose	(D) Polyester
17)	For which crop ammonit	` '		, ,		
-1)	(A) Cotton	(B) Whe		(C) Suga	ar Cane	(D) Paddy rice
	(A) Couon	7 .				5
		1219	122	2 19000	(3)	pakcity.org 🛞

	122	Warning:- Please, do not writ 2 (Inter Part - II)	e anything or (Session	this question par 2018-20 to 2020	oer except your R -22)	toll No.	
	Che	emistry (Subjective)		up I)	Paper (1	m	
		e Allowed: 2.40 hours	(-F - /	- '	ım Marks:	68
			Section .	I			00
2.		Answer briefly any Eight pa	rts from the	followings:-		$8 \times 2 = 16$	
(i)	Why d and f block elements	are called tra	nsition elements?			
(j	ii)	Why metallic character incre	ases from to	to bottom in gro	up of metals?		
(i	ii)	What happens when (a) Berylliu	ım is treated w	ith sodium hydroxide	e. (b) Lithium hydi	ride is treated	with water.
(i		BeO is Amphoteric oxide. Ju					
(1		Write down any four uses of	Aluminium.	(vi) Write down	any two uses of	boric acid.	
(v		Write down the reaction of H			O_3		
(vi		H ₂ SO ₄ act as oxidizing agent	. Justify with	two reactions.			
(i		What are Chelates. Give one	example.	(x) What are su	bstitutional alloy	s. Give one	example.
(x		Write down the name of Non					
(x		Write down the reactions tak			_		
3.		Answer briefly any Eight pa			8	$\times 2 = 16$	
(i		Why iodine exists in solid sta					
(i		Give four uses of Noble gase		(iii) What is vit	al force theory. I	low it was r	ejected.
(iv	V)	Why there is restricted rotation	on about the	iouble bond.	ó)		
(v	"	What is ozonolysis. Give read	ction. (v	i) Alkene is more	reactive than all	kane. Give r	eason.
(vi		What are Monohaloalkane. G			elimination wi	th example.	
(i)		Define degree of Polymerizat	ion with exa	mple			
(x		How Nylon 6,6 is prepared?		(xi) What is de	enaturation of pro	otein.	
(xi	175.00	Give any four uses of Ethene	-\ 1				
4.		Answer briefly any Six parts				$6 \times 2 = 12$	2
(i		How n-hexane and n-heptane					
(ii		How will you prepare m-chlo					
(ii		Why absolute alcohol can not		by termentation	process.		
(iv	3	Convert Ethanol into methano How does formaldehyde reac	ol.	Calleria Desease	(L) Falling Ca	14.	
(v)	,	Name the following by IUPA	C System	COOH	(b) Fenling So	lution.	
(*)	,	(a) HCOO CH ₂ .CH ₂ .CH ₃	(b)	Areas Law Meeters Areas Service			
		(a) 11000 0112.0113.0113	(0)				
(vi	i)	Haw will you convert CH	COOH	COOH			
1000 000		How will you convert. CH_3					
(vii		Describe the term chemical or	• •	, ,			
(ix)	How leather Tanneries are po					
Made		44		ion II		<i>(</i> 0 · 0	- 4
_		ttempt any three questions.		Chu.du		(8 × 3	= 24)
5.	(a) (b)	Discuss two similarities and				elements.	
6.	(a)						- 5
٠.	(b)				۶۱۱. هم	pakcity	.org 💥
	(0)	(i) Binding energy (ii) Ox		itton elements.	Section 1		
7.	(a)	Define hybridization. Discu		re of Ethyme on t	he hasis of 'sn' 1	avibni di mati an	_
,.	(b)	Write a note on mechanism				iyoridizadol	1.
8.	(a)	How does acetylene react w				Gr) O-	
0.	(b)	Write reactions of formalde				$(1V) O_2$	
	(0)	(i) HCN (ii) conc. NaOH					
9.	(a)						
1070000	(b)	Give the two methods for the					
	(-)						
			1220 1	222 19000			

12	22 Warning:- Please wri	te your Roll No. in the	space provided and sign	a. Roll No
	(Inter Part - II) (S	Session 2018-20 to 202	0-22) Sig. of	f Student
CI	nemistry (Objective)	Group -	-II Pap	er (II)
Ti	me Allowed:- 20 minutes	PAPER CO	DE 4482 Maxi	mum Marks:- 17
No	te:- You have four choices for ea	ch objective type question a	s A, B, C and D. The choice	which you think is correct; fil
	t circle in front of that question n			
	ult in zero mark in that question.			
	swer Sheet and fill bubbles accord	lingly, otherwise the student		tuation. Use of Ink Remover of
	ite correcting fluid is not allowed.		Q.1	
1)	The most non-metallic elem			(D) (C 1
	(A) Nitrogen	(B) Fluorine	(C) Oxygen	(D) Carbon
2)	The mineral (CaSO _{4.2} H ₂ O)		(0) 0 1 1	(D) D (C)
	(A) Gypsum	(B) Dolomite	(C) Calcite	(D) Epsom Salt
3)	Which metal is used in then			
	(A) Iron	(B) Copper	(C) Aluminium	(D) Zinc
4)	Laughing gas is chemically			
	(A) NO	(B) N_2O_4	(C) N_2O_3	(D) N_2O
5)	Which halogen occurs natur	rally in a positive oxidat	(0)	
	(A) Fluorine	(B) Chlorine	(C) Bromine	(D) Iodine
6)	Coordination number of Ni	in $[Ni(CO)_4]$ is	4(3)	
	(A) 2	(B) 4	(C) Zero	(D) 6
7)	The chemist who synthesize	ed Urea from ammoniur	n cyanate was	
	(A) Wholer	(B) Kolbe	(C) Berzelius	(D) Lavoisier
8)	Which of the following gase	es is used for artificial ri	ipening of fruits?	So Charles Co. Not the department of the destriction of
•	(A) Ethane	(B) Methane	(C) Ethene	(D) Propene
9)	Benzene cannot undergo re-	. 1// 3	LICATION	
,	(A) Substitution	(B) Addition	(C) Oxidation	(D) Elimination
10	Which one of the following	V ' '		()
,	(A) BF ₃	(B) H ₂ O	(C) H ₂ S	(D) NH ₃
11	Rectified spirit contains eth			(-)3
,	(A) 80%	(B) 85%	(C) 90%	(D) 95%
12	Which of the following reas			
,				Benedict's
	(A) Grignard reagent	(B) Tollen's reagent	(C) Fehrnass reagent	(D) reagent
13)	Acetic acid is manufactured	hv		reagent
10)	(A) Distillation	(B) Fermentation	(C)	(D) Esterification
14)	Which of the following poly		•	(b) Estermeation
14)	(A) Animal Fat	(B) Starch		(D) Cellulose
15)	` '	` '	(C) Polyester	(D) Cellulose
13)	Micro-nutrients are required			(D) 4.40 K-
10	(A) 6-200 g	(B) 6-200 Kg	(C) 4-40 g	(D) 4-40 Kg
10)	Newspaper can be recycled			m) 46
	(A) 03	(B) 04	(C) 05	(D) 06
17)	Pesticides used to Kill the u			(m) m
	(A) Fungicides	(B) Herbicides	(C) Insecticides	(D) Biocides
				6 1 : 4

Warning:- Please, do not write anything on this question paper except your Roll No. (Session 2018-20 to 2020-22) 1222 (Inter Part - II) Chemistry (Subjective) (Group II) Paper (II) Maximum Marks: 68 Time Allowed: 2.40 hours Section ----- I Answer briefly any Eight parts from the followings:- $8 \times 2 = 16$ 2. Why diamond is a non-conductor and graphite is fairly a good conductor? (i) Why d and f-block elements are called transition elements. (ii) How is gypsum converted into plaster of paris? (iv) Why is 2% gypsum added in the Cement? (iii) Give the names and the formulas of different acids of boron. (v) How does borax serve as a water softening agent? (vii) Write any four uses of nitric acid. (vi) P₂O₅ is a powerful dehydrating agent prove it giving example. (viii) Under what conditions does aluminium corrode? (x) What are interstitial compounds? (ix) Write down the essential qualities of a good fertilizer? (xi) What are Macronutrients? Give example. (xii) $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-3. Name the two oxides of Xenon and fluoride of Xenon. (ii) What is iodized salt? (i) Write the name and general formula of the carbonyl containg functional groups. Give two examples. (iii) Write the name and formula of any two fused ring aromatic compounds. (iv) Differentiate between Clemmensen and Wolf Kishner reduction (2) (v) How acetylene is converted to divinyl acetylene? (vii) What is Lindlar catalyst? For which purpose it is used? (vi) How Grignard reagent react with propanone? What type of reactions shown by the alkyl Halides? (viii) What is condensation polymerization? (xi) What are the Lipids? Write two Characteristics. (x) How will you prepare soap? (iix) Answer briefly any Six parts from the followings:- $6 \times 2 = 12$ Define resonance and resonance energy. (i) What is Wurtz Fittig reaction (ii) How does diethyl ether react with (a) HI (b) PCl₅ (iii) Prepare ethanol by fermentation of molasses. (iv) Define aldol condensation, give an example. (v) Write names of four neutral amino acids. (vi) Write names of esters having following flavour (a) Banana (b) Jasmine (vii) Write two reactions for formation of acid rain. (viii) How does Livestock waste cause water pollution. (ix) Section ----Note: Attempt any three questions. 5. (a) Define heat of hydration. Explain with one example. Also mention the factor affecting it. (b) Write down eight uses of Aluminium. 6. (a) Give the role of Gypsum in industries. (b) How Wrought Iron is manufactured from Cast Iron by Puddling? Explain. 7. (a) Write note on Reforming of Gasoline. (b) Write reactions of Grignard's reagent with following (i) H₃CCH₂OH (ii) CO₂ (iii) ClCN (iv) H₂O 8. (a) Describe the Kolbe's Electrolytic method for the preparation of ethyne along with mechanism. (b) Write down the reaction of Acetaldehyde with hydrogen cyanide (HCN) along with Mechanism. 9. (a) Explain the structure of Benzene on the basis of atomic orbital Treatment. (b) Write down the reactions of ethanol with following (i) SOCl₂ (ii) NH₃ (iii) CH₃COOH (iv) Na

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Warning:- Please write your Roll No. in the space provided and sign. Roll No----(Inter Part - II) (Session 2017-19 to 2019-21) Sig. of Student Computer Science (Objective) Paper (II) Time Allowed: - 20 minutes Maximum Marks:- 15 PAPER CODE 4837 Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed. (MS-ACCESS) S.N. Ouestions A B D C In 3NF which form of dependency 1. Non Functional Transitive Associative is removed? functional 2. A record is a complete set of ____ Non-related Distinct Designed Related field. How many types of relationship? 3. 4. Which of the following may be a Data file Master file Transaction Back up file temporary file? file 5. SQL is used for Data Data Data Data definition manipulation definition creation and manipulation Which of the following keys does 6. Candidate Alternate Secondary Primary key not hold uniqueness property 1key key key C- Language S.N. Ouestions A B C D No. of expressions in for loop 7. 4 3 6 5 statement are: 8. Choose an alternative to the if-else Logical Relational Conditional Arithmatic statement from the following operator operator operator operator 9. Memory is allocated to a local First Declaration Destruction Definition variable at the time of its. reference 10. exe file is produced by the Linker Loader Compiler Interpreter 11. Debugging is the process of Identifying Identifying Creating Removing and **Errors** bugs in Errors apakcity.org removing errors program 12. Which of the following is a valid "h" a '6' 6 character constant? 13. Select a data type that offers the Float Unsigned Long int Long double highest precision? long int 14. The function getche () is defined in math.h conio.h stdio.h string.h 15. Select an operator with the highest = = ! + precedence?

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Warning:- Please, do not write anything on this question paper except your Roll No. Sargodha Board-2021
    .21 (Inter Part-II)
                                       (Session 2017-19 to 2019-21)
                                                                     Paper (II)
    Computer Science (Subjective)
                                                                     Maximum Marks: 60
     Time Allowed: 2.10 hours
                                     SECTION --
                                                                                        6 \times 2 = 12
                                                                      (MS-Access)
 2. Answer briefly any Six parts from the following.
 (i) Who is the end user? (ii) How a relation is formed in database? (iii) List any two data distribution
 strategies. (iv) Define the term analysis. (v) Which database object is used to create and format printed
 output? (vi) What is an IDE? (vii) Differentiate between form and report. (viii) List out any four data
 types available in MS-Access. (ix) Why are field properties used in MS-Access?
                                                                                       6 \times 2 = 12
                                                                  (C- Language.)
      Answer briefly any SIX parts from the followings:-
                                                              What is the purpose of Linker?
        Define Program.
  (i)
                                                   (iv) How a variable is Declared in C? Give an example
        What is #define Directive? Give an Example.
 (iii)
                                                              Write two rules for Naming Variables.
  (v)
        What are keywords?
                                                                      (ix) Trace Output:
        Find Error:
 (vii)
                                  (viii) Trace Output:
                                                                            if(7\%3 = = 0)
                                         int x=5, y=10;
         if (x = 1 \text{ or } 2)
                                                                             printf ("Punjab");
           printf ("%d", x);
                                        if(x>y)
                                        y=y+1;
                                                                              printf ("KPK");
                                         printf ("Value of y=%d",y);
                                                                                   6 \times 2 = 12
                                                               (C- Language.)
      Answer briefly any SIX parts from the followings:-
 4.
                                                                What is use of format specifiers?
        Define standard output.
                                                          (ii)
 (i)
                                                         (iv) Define local variable.
        Differentiate between getch () and getche ().
 (iii)
                                                                Show output of the given code.
        Show output of the given code.
 (v)
       Trace errors of the given code void main ()
                                                                  int a, s = 0;
                                                                  for (a = 10; a > 0; a - = 1)
                                                                   s+=a;
                                                                     printf ("sum is =%d", s);
                                                                 List different types of functions in C.
                                                         (viii)
 (vii)
                                                                 What is binary stream?
                                                          (ix)
              Far (int n = 1; n < = 5, n + +)
                printf ("%d",n)
             }
SECTION ----- II Note: Attempt any ONE question.
                                                                    (MS - ACCESS)
                                                                                          (8 \times 1 = 8)
       Discuss objectives of Database Management System.
5.
       When is a relation in first normal form? Explain with example.
6.
SECTION------III Note: Attempt any TWO questions
                                                                                          (8 \times 2 = 16)
                                                                     (C - Language)
    What is programming language? Explain two main categories of programming language.
7.
    Define "if" Statement. Explain its working with Syntax, Flowchart and example.
8.
    Write a program in C language that inputs a number, and displays its table according to the
9.
    following format:
                                                                                   pakcity.or
        Suppose the number entered is 5, the output will be as follows:
             5 * 1 = 5
             5 * 2 = 10
             5 * 3 = 15
                                                        1288 -- 1221 ALP -- 18000
             5 * 10 = 50
```

Warning:- Please, do not write anything on this question paper except your Roll No.

1219 (Inter Part - II)

(Session 2015-17 to 2017-19)

Computer Science (Objective)

Time Allowed: - 20 minutes

PAPER CODE 4831

Paper (II) Maximum Marks:- 15

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or

white correcting fluid is not allowed. (MS-ACCESS)

	rrecting flu	id is not allowed.	(MS-ACCESS)			
S.N.		Questions	A	В	C	D
1.	A type of	file that contains data is called?	data file	Program file	image file	Query file
2.	Which of control Ke	the following is also known as	Primary Key	Candidate Key	Sort Key	Foreign Key
3.	Which of the following is used to describe the characteristics of an object?		Modality	Attribute	Cardinality	Entity
4.		non-key attribute must not	Sort Key	Synonym	Homonym	Non-Key attribute
5.		t of a database application is	Form	Query	Report	Macros
6.		n table is entered in	Datasheet view	Layout view	Design view	Normal view
7.	(C.Lng)	Which of the following language provided the basis for the development of C?	В	C++	Pascal	Cobol
	OR (VB)	Which of the following is native language of computer?	Machine language	Assembly	C++	V.B
8.	(C.Lng)	The number of digits after a decimal point is called	Significance	Range	Precision	Scope
	OR (VB)	A project file is saved with the following extension.	frm	.bmp	.vbp	.frx
9.	(C.Lng)	Which character signifies the beginning of an escape sequence?	N.S.	//	*	,
	on (VB)	Which event occurs after a form has closed?	ShutDown	EndClose	FormClosing	FormClosed
10.	(C.Lng)	Conditional operator is an alternative of	if	if-elsc	nested-if	if-else-if
	or (VB)	Which of the following is not a Visual Basis data type?	Byte	Register	Long	Integer
11.	(C.Lng)	Which programming structure executes program statements in order?	Sequence	Relation	Decision	Repetition
	or (VB)	Which of the following reverse the Boolean value of a relational expression?	NOT pakci	AND	OR	BUT
12.	(C.L,ng)	What does a compound condition	Relational	elational	Logical	Logical
	on (VB)	use to join two conditions?	Operator	Result	Result	operator
	OK (VB)	Which control combines the features of a textbox and listbox?	Scrollbar	Check Box	Radio Button	Box
13.	(C.Lng)	While loop is also called	Wend loop	Counter	Conditional	Continuous
	on (VB)	A loop which never ends is called	Inner loop	Nested loop	Infinite loop	Continuous
14.	(C.Lng)	The process of sending an argument to a function is called	Sending	Passing	Filtering	Delivering
	OR (VB)		Sending	Passing	Filtering	Delivering
15.	(C.Lng)		0 (Zero)	NULL	1 (One)	FILE Pointer
	or (VB)		36	25	6	5

121	Warning:- Please, do not write anything on this question 9 (Inter Part-II) (Session 20			
	omputer Science (Subjective)		Paper (II)	
Ti	me Allowed: 2.10 hours		Maximum Ma	rks: 60
	SECTION answer briefly any Six parts from the following		(MS-Access)	$6\times 2=12$
	ifferentiate between data redundancy and data inco			
(ii) V	What do you mean by data independence? (iii) Wi	rite thre	e important characteristic	s of a
	ary key. (iv) Why feasibility study is used? (v)			escribe transitive
	ndency. (vii) What do you mean by Relational D			
	Define Referential Integrity. (ix) What are check		?	C × 2 - 12
3.	Answer briefly any SIX parts from the follow C - Language	vings:-	Visual B	$6 \times 2 = 12$
(i)	What do you know about delimiters?	(i)	Why source code is converte	
(ii)	Differentiate between Compiler and Interpreter?	(ii)	What is Compiling?	a into doject codo.
(iii)	Define expression?	(iii)	What is properties wind	low?
(iv)	Rewrite the expression n++; without using the	(iv)	Why Visual Basic is cal	
()	operator ++	(1.)	language.	nod event isniven
(v)	What will be the output of the following	(v)	How are event procedur	re named?
	int number = 6;	` ′	•	
	int $x = 0$;		200)	
	x = number;	1	Oliver of the second	
	printf ("%d\n", x);	1,000		
(vi)	Find errors in the following code segment	((vi))	What is variable?	
	int a b; a = 10	1700		
	a = 10 b = 5:			
	printf ("a+b = %c", a+b);	*	90.	
(vii)	Define getch function?	(vii)	How variable is declare	40
(viii)	Write C- statement to print the value of	(viii)	Define Inputbox?	u r
` '	unsigned long x.	(VIII)	Total Inputoox:	
(ix)	What will be the Output of the following.	(ix)	Differentiate between cl	heck box and
	printf ("55\t");	Anna st a Newton	option button?	nook bon with
	printf ("555");	A-data Ferral		
4.	Answer briefly any Six parts from the follow	vings:-	- 03//	$6 \times 2 = 12$
.	C - Language pa	akcity	org Visual F	Basic
(i)	Define condition.	(i)	Name and describe thr	ee basic styles of
(ii)	Convert the full and the first training the		combo boxes.	
(ii)	Convert the following conditional statement	(ii)	How is a picture remo	oved at runtime?
	into if-else statement $x < 0$? $y = 10$: $z = 20$;	(iii)	What is the purpose of	timer control?
(iii)	Determine the output of following code.			
	If(1==2)			
	printf("Hellow");			
	else			
	printf ("Correct it");			
(iv)	Define do-while Loop.	(iv)	What does MDI mean	?
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C- Language

(2)

Visual Basic

(v) Convert following while loop into for Loop.int c = 0;while (c<5)

while (c<5) {
printf("%d\n",c);

c++;

- (vi) Determine the output for(a=5; a < = 5; a = a + 5) printf ("%d",a);
- (vii) Define user-defined function.
- (viii) Compare Local and global variables.
- (ix) Define a stream.

(v) Define ToolTip.

- (vi) Name two types of Sub programs.
- (vii) What is standard code module?
- (viii) Write the use of function procedure?

 $(8 \times 1 = 8)$

(ix) What is function argument?

SECTION

Note: Attempt any ONE question.

MS - ACCESS

Discuss four advantages of DBMS?

6. What is field property? Discuss any four properties in detail.

SECTION ----- III

Note: Attempt any TWO questions either from "C - Language" OR from "Visual Basic". (8 × 2 = 16)

7. C-Language Describe different data types to store integer data in C-Language.

7. -- OR--Visual Basic Describe different data types to store integer data in VB.

8. C-Language What is nested "if" statement? Draw its flow chart. Explain its working with an example.

8. --OR--Visual Basic What is nested "if" statement? Draw its flow chart. Explain its working with an example.

9. C-Language Write a program that inputs a number from user and display the factorial of that number.

9. --OR--Visual Basic Write a program in VB that inputs a number from user and displays the factorial of that number.

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1218 (Inter Part - II)

(Session 2015-17 & 2016-18)

Computer Science (Objective)

Sargodha Board-2018

Time Allowet: - 20 minutes

PAPER CODE 4835

Maximum Marks:- 15

Paper (II)

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or

white correcting fluid is not allowed. (MS-ACCESS)

white co	orrecting th	id is not allowed.	(MS-ACCESS)			
S.N.		Questions	<u>A</u>	В	С	D
1.		cess, table contains	Fields	Record	Character	File
2.	field that used in ca	ta type can be used to define a consist of only numbers to be alculations.	Text Field	Number	Memo	Date & Time
3.		A set of related files created and managed by a DBMS is called		Record	Database	Module
4.	An attribu	ite is also known as a	Table	Relation	Row	Field
5.	In an E-R	diagram, a rectangle represents	Entity	Attribute	Relationship	Relation
6.		rms of dependency is removed in ormal Form.	Functional	Transitive	Associative	Partial
7.	(C.Lng)	The output of the compiler is called	Object code	Source code	Linked code	Library code
	OR (VB)	What is the name of a program that translates VB code to object code as a whole	Interpreter	Assembler	Debugger	compiler
8.	(C.Lng)	A memory location with some data that can be changed is called as	Constant	Named	Address	Variable
	on (VB)	A memory location with some data that can be changed is called as	Constant	Named constant	Address	Variable
9.	(C.Lng)	Which of the following format specifier is used for character data type.	6	% s	% с	% e
	or (VB)	Which of the following is not a Visual Basic control.	Command Button	rms	Variable	Text Box
10.	(C.Lng)	Which keyword is not used in switch statement	If C	Switch	Case	Default
	or (VB)	The naming prefix for a label control is		lab	1	lbe
11.	(C.Lng)		Brid case	End select	Break	Case end
	or (VB)	In Visual Basic, which keyword is used at starting point of a decision structure.	Loop	v.org ^{For}	If	Else
12.	(C.Lng)	The loop which never ends is called	Infinite	Running	Continous	Nested loop
	or (VB)	The keyword that marks the end of a Do- loop structure is	END Do	loop EXIT Do	END while	Loop
13.	(C.Lng)	Which loop structure always executes atleast once.	do-while loop	for loop	while loop	while-end
	UR (VB)	is an example of post test loop	Do-while loop	while loop	do-end loop	For loop
14.	(C.Lng)	int is ain C	Special word	Key word	Cut word	First word
	or (VB)	Which method is used to delete an item from the List Box?	Add item	Remove item	Clear item	Erase item
15.	(C.Lng)	The fopen () function uses parameters.	1	4	3	2
	on (VB)	Which one of the following controls can be placed directly on an MDI form.	Picture Box	Timer	Label	Image

Warning:- Please, do not write anything on this question paper except your Roll No. (Session 2015-17 & 2016-18) 12 18 (Inter Part-II) Computer Science (Subjective) Paper (II) Time Allowed: 2.10 hours Maximum Marks: 60 SECTION -----I 2. Answer briefly any Six parts from the following. (MS-Access) $6 \times 2 = 12$ (i) Why is it important to specify data type and size of a field? (ii) Define data redundancy. (iii) What is the basic purpose of using views? (iv) Write any two criterias to select file organization. (v) Define mutual exclusiveness of data. (vi) How entity integrity is attained? (vii) Write the use of database window in MS-Access. (viii) State the use of wild cards. (ix) Are sub-forms useful? Answer briefly any SIX parts from the followings:- $6 \times 2 = 12$ 3. C - Language Visual Basic What is header file? Define source code. (i) (i) What is project Explorer in Visual Basic IDE? What are logical Errors? (ii) (ii) Give any three rules for naming variable. Define object code. (iii) (iii) List three key events? What is an Expression? (iv) (iv) Enlist all relational operators in C language. What is concatination operator in Visual Basic? (v) (v) Predict the output of following code segment. What is the output of following code segment? (vi) (vi) Dim n As Integer int n = 10; n % = 2;n = 10n mod 2 n+=5: printf("%d",n); n = n + 5What is format specifier? print n (vii) What is the output (ix) Find Errors in the Which case option is used to test a range (viii) of following code segment following code segment of values? #include<stdio.h>; (viii) What is iteration? int x, y = 5; VOID main() What is the difference between do-while x = y++;(ix) and do-until loop? $printf("%d\n %d",x,y);$ printf("Hello c"); $6 \times 2 = 12$ Answer briefly any Six parts from the followings:-Visual Basic C - Language What is the purpose of default statement in switch structure Define Select.. case statement. (i) (iii) Write the output of Write the error from (iii) Write the ouput of (ii) Write the error from (ii) the following code: the following code: the following code: the following code: int p = 3, q = 5; Dim n As integer # include Dim x As Integer void main () if(p>q)If x < 10n = 1 $\{ float Y = 3.14 \}$ printf ("%d",p); n < 5Msg box "Error"; While if (Y = = 3.14)else print "PAKISTAN" End printf ("%d",q); printf ("%d", Y) n = n + 2} wend Describe nested loop. What is counter controlled loop? (iv) (iv)

4.

(i)

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Define Do - While Loop in Visual Basic. Write its syntax and also give

(8)

Q.No.9