Roll No.\_\_\_\_\_To be filled in by the candidate

(A) Positive only

(B) Negative only

## (NEW PATTERN)

Paper Code 8 8 3

(D) None

(C) Both A and B

649-012-A-☆

Sessions; 2012-2014&2013-2015

# Computer Science (Objective Type)

Ti	ne: 20 Minutes	* v:				Marks: 17
NO	<b>FE:</b> Write answers to the que	estions on objective answer sl	neet p	rovided. Four possible	answ	ers A,B,C & D to each
						iven in front of each question
	Marker or pen ink on the ans					,
1.1.	Storage and retrieval of da					
	(A) Data Capturing		(B)	Data manipulation		
	(C) Managing output res	ult	(D)			
2.	Insert command is used to	**************************************	(5)	Data initially		
	(A) New table	(B) New record	(C)	View	(D)	Quent
3.	A row of a relation is calle	그리다 아름은 그는 아이는 아이는 아이를 하는데 아이는 아이는 아이는 아이는 아이는 아이를 하는데	(0)	VIEW	(D)	Query
1070.5	(A) Attribute	(B) Entity	(C)	Tuple	(D)	Field
4.	An entity related to itself in		(0)	Tuple	(D)	rielu
7.00	(A) recursive relationship	31	(B)	One to many relation	schin	
	(C) Many to many relation			One to many relations		
5.	In 3NF, which form of dep		(D)	One to one relations	шр	
-	(A) Functional	(B) Non-functional	(C)	Associative	(D)	Transitiva
6.	[시간 사람] 40 [ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	e that starts with H,the criter			(D)	Transitive
٥.	(A) H*4	(B) H?4			(D)	114444
7	Which autoform displays of		(0)	H???	(D)	H# # # #
	(A) Tabular	(B) Columnar	(C)	Detechent	(D)	luntifie d
	(A) Tabulai	15 or 145 to - 1 feet and the same of the test of the	(C)		(D)	Justified
R	B was developed in the ye	C-Lar	igua	ge		
0.			(0)	4070 4000	(0)	1000 1001
9.	- 사용하다 150 - 중시하시에 연극하다 (1200m) - 1200m - 120	(B) 1965-75	(C)	1972-1988	(D)	1989-1994
٥.	Which of the following are (A) Long	CALLERY SANCON CASCONICA	<b>(0)</b>		<b>/</b> D\	B B . I .
10		(B) Integer		Not long enough	(D)	Both B and C
10.		he name of the variable nam			<b>(D)</b>	
11		(B) Variable name	(C)	Address	(D)	Data type
11.	Format specifier is started		(0)	•		(*).
12		(B) %	(C)	&	(D)	#
12.	Another term for a compute		(0)	Manager 1991		
12		(B) selection		repetition	(D)	Iteration
13.		valid case statements in a s		1. 12.		
11		(B) Case x<4		Case 'ab':	(D)	Case 1.5;
14.		ructure are available in C la				_
15		(B) 3	(C)	2	(D)	6
15.	This means to increase a v		(0)			2 P.P
16	- 12 Land - 1 Land -	(B) Increment	(C)	Decrement	(D)	None
10.	Formal arguments are also	1	<b>'</b> ~'		<i>.</i>	
17		(B) Dummy arguments			(D)	Referenced arguments
17.		existing file for both reading	T		<b></b> \	
	497 309	(B) "r+"		"W+"	(D)	"a+"
0	Visual basis is a:	Visua	II Ba	ISIC		
0.	Visual basic is a:	(D) Dook and	(0)	Deth MAN LUDI	<b>/</b> P)	V
0		(B) Back end	(C)	Both "A" and "B"	(D)	None
9.	The output of the compiler		(0)	real contract of the contract	/D1	01: /
10		(B) Source code	(C)	Linked code	(D)	Object code
10.	The naming prefix for a lab		(0)	anar.		
11	_2_3	(B) lbe	(C)	IDI	(D)	1
115	The property that changes		(0)	<b>5</b> -1-1-	<b>(D)</b>	
12		(B) Fore color	(C)	Font color	(D)	Text color
12.	Variable and constant nam	[일일] [1] [1] [1] [2] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	(0)	1 -11	<b>(D)</b>	TT. T.
12		(B) Period		Letter	(D)	Underscore
13.		handle a yes or No response	200202	lute acc	/B1	D-1-
11	- [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	(B) Short	((2)	Integer	(n)	Date
14.	All of the following are relat		(0)	<u>~</u>	/m·	-
15		(B) &	(C)		(D)	>=
10.		equired to write an ifthen			/D)	•
16		(B) 1	(C)	2	(D)	3
10.	The keyword that makes the (A) END DO		(0)	Ev# DO	/P)	CODO
17	The increment in a forNe	(B) Loop	(C)	Exit DO	(n)	GODO
11.	The more ment in a lot Ne	ALIOOP CALL DE.				

int a:

vii. What is function definition?

ix. What do you mean by binary stream?

for (a=1; a<=100; a=a+3)

Printf("%d\n",a);

viii. What is the use of formal parameter?

getch();}

## OR Visual Basic

3. Write short answers of any six parts from the following.	c 8 =16
i. Why is it important to identify a problem?  ii. What is object code?	
iii. Why source code cannot be executed directly? iv. What is concatenation of string?	
v. Define the USE of option explicit.  vi. Describe the use of message box.	
vii. Write any two parameters of input box. viii. What is goto statement?	12
ix. Write the general form or syntax of Nested if. x. When should an if block is used instead of ca	se block?
xi. What is the purpose of case else? xii. Briefly describe the working of Nested if.	
	6 =12
i. Define ifthen Else structure.  ii. Define Do-Until loop.	
iii. What is the concept of sub keyword? iv. What is alignment Statement in visual basi	c?
v. What is keydown event?  vi. Define relational operator.	
vii. Define comments in Visual Basic. viii. What is local variable?	
ix. Define logical error.	18
Section -II	Ş
MS-ACCESS	
Note: Attempt only one question from the following.	8x1=8
<ol><li>What are components of a logical model? Explain in detail.</li></ol>	08
6. Describe different data types used in MS-ACCESS.	08
Section -III	97.27
Note:Attempt any two questions either from "C-language" or "Visual Basic".	
C-language	
7. Define language processor or translator?Discuss different types of language processors?	. 00
8. Write a program which inputs a number and tells whether it is even or odd?	
9. Explain the working of while loop with flow chart and syntax.	08
	08
Visual Basic	
7. Define flowchart.Discuss different flowchart symbols used in visual basic.	08
8. Write a program in visual basic which inputs three numbers from user and tells maximum number from them.	08
9. Explain the working of Do Until Loop.	08
Section-IV (Practical)	5x3=15
Note: Answer any three parts from the following.	
10(A). Explain the procedure for creating simple query.	
B. How is auto report used to generate a report?	
C. Write a program that subtract two numbers and show result on screen in C-language or using Visual Basic	
D. Write a program that inputs a number from the user and display a table of that number using for loop in	•
teaching the second state and the second state at	
C-language or using For-Next loop in visual basic.	
E. Write a program in C-language that inputs two numbers in main function, passes these numbers to function	1.

650-012-A----

The function displays the maximum number or using Visual Basic.

Time: 20 Minutes

Roll No.\_\_\_\_\_To be filled in by the candidate

## (OLD PATTERN)

Paper Code 4 8 3 1

Marks: 15

## Session;2011-2013

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each

question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question

# Computer Science (Objective Type)

with I	Marker or pen ink on the ans	swer sheet provided.				
		M	S-ACCE	SS		
1.1.	Which of the following typ	e of file requires largest	processing	g time?		
	(A) Sequential file		(B)			
	(C) Indexed sequential	file	(D)	Direct access file		
2.	Create comand is used to		(-)	Direct decess inc		
	(A) table	(B) view	(C)	report	(D)	allon
3	Relationship defines the I			report	נטו	query
O.	(A) Fields			Catition	<b>(D)</b>	Name
1		(B) Records	(C)	Entities	(D)	None
4.	In relational database, a to	200 March 1980 -	(0)	p=-1		
_	(A) Tuple	(B) Relation	(C)	File	(D)	Schema
5.	Extension of MS-Access of	ALAN SENSE OF ALEXANDERS				
	(A) .mdb	(B) .msdb	(C)	.madb	(D)	none
6.	A single piece of informati	on is called:				
	(A) Field	(B) Record	(C)	Entity	(D)	Attribute
		С	-Langua	ge		
7.	Pre-processor directives a	are commands for:	<b>→</b> 1520 3			
	(A) Micro-processor	(B) Language process	or (C)	C-processor	(D)	C-compiler
8.	Which of the following has		K. 1940 - 1	574-49 - 1997-44-40 W 500 W 500 W 544-50 W 544-60 W	. ,	Control of the Property of the Man Destroy Section
	(A) !	(B) +	(C)	=	(D)	==
9.	The format specifier % is	AT A COTA	(-)		(-)	
23.50.50		(B) Unsigned integer	(C)	Unsigned float	(D)	Unsigned long integer
10	If statement inside anothe	보이는 하시다. 병사 이 사고 가장에 하셨다면 하나 아니라 살아 하나 있다.	(0)	onoighed hour	(0)	Onsigned long integer
10.	(A) Branched if		· (C)	Nocted if	(D)	Polational aparator
11		(B) conditional operato		Nested if	(D)	Relational operator
11.	Which of the following is t				<b>(D)</b>	0
40	(A) If-else	(B) if-else-if	(C)	Nested if	(D)	Switch
12.	The statement that termin					
	(A) Terminate	(B) Break	(C)	Exit	(D)	end
13.	Semicolon is placed at the	e end of condition in:				
	(A) For loop	(B) While loop	(C)	do-while loop	(D)	nested loop
14.	Formal arguments are als	o called:				
	(A) Actual arguments		(B)	Dummy arguments		
4.5	(C) original arguments		(D)	referenced arguments	S	
15.	A file is stored in:					
	(A) RAM	(B) ROM	(C)	Harddisk	(D)	Cache
	OR	V	isual Ba	sic	A 150	
16.	The lowest level at langua	age is:				
	(A) C	(B) C++	(C)	Assembly	(D)	Java
17.	Visual Basic is a product of		<b>\-</b> 1		(-,	27. AUG. 27
	(A) Sun system	(B) IBM	(C)	Microsoft	(D)	Hewlett
18	The icon on the toolbox re	Maria Maria Companya Caranta C	(•)	Miorosoft	(0)	Homen
	(A) Program executable	procentes.	(B)	VB controls		41
	(C) Shortcut to menu ite	am	1_1			
10	Forms and controls are or		(D)	properties		
13.		The same and the s	(0)	Ohiosto	<b>(D)</b>	Frants.
20	(A) Properties	(B) methods	(6)	Objects	(D)	Events
20.	Bytes occupied by integer		(0)	_		
04	(A) 4	(B) 8	(C)	2	(D)	6
21.	You can enter data in a co					
1020201	(A) Tab order	(B) Focus	(C)	Mask	(D)	Control
22.	Symbol of string concatina	ation is:	İ			
	(A) ++	(B)	(C)	&	(D)	and
23.	Statement that indicates t	he end of decision struc	ture:			52
	(A) Next	(B) End if	(C)	End	(D)	Else
24.	A control array can be add	led in:				
	(A) view mode	(B) Debug window	(C)	Design mode	(D)	Print mode
		69	95-012-A-7	<b>☆</b>		

Roll No. \_\_\_\_\_To be filled in by the candidate

## (OLD PATTERN)

Session; 2011-2013

Subject Code 4 8 3

# Computer Science (Essay Type)

Time: 2:10 Hours

Marks: 60

#### Section -I MS-ACCESS

2. Write short answers of any six parts from the following.

2 x 6 =12

- i. Define the term data manipulation.
- iii. What is database key?
- v. Define the term attribute.
- vil. Name four database objects.
- ix Write two advantages of using forms

- Explain data independence.
- iv. Who is end user?
- vi. What is referential integrity?
- viii. What is degree of a relation?

Write two advantages of using forms.

#### C-Language

3. Write short answers of any six parts from the following.

 $2 \times 6 = 12$ 

- Define low-level language.
- iii. Describe the term "machine independence".
- v. Define identifiers in C language.
- vii. Explain "clrscr" function.
- ix. Trace out the error.

```
Void main ();
{
    Printf("%S",Pak);
    getch();
```

 Differentiate between Assembly language and High level language.

- iv. What is variable initialization?
- vi. Describe "getche" function.
- viii. List some important function for input.

4. Write short answers of any six parts from the following.

2 x 6 =12

- i. What is the use of logical "OR" operator?
- ii. How a file is closed?

iii. Define Binary stream

iv. Write down the syntax of conditional operator.

v. Define local variable.

- vi. List some benefits of using functions.
- vii. What happens if break statement is missed in case block? viii. List two difference between while and do while loop
- ix. Write the expression for: a is either equal to 0 or greater than 0.

#### OR Visual Basic

OR	Visual Basic	
3. Write short answers of any six parts from the fo	llowing.	2 x 6 =12
i. What is compiling?	II. What is .NET platform?	2 × 0 -12
iii. What is VBA?	iv. What is difference between a project file and	a form file 2
v. What is the purpose of name property of a control?	vi. What are three steps for creating VB project inc and	iecte?
vil. Describe some events of VB for a form.	viii. What is the use of keypress and keydowi	
ix. How are events procedure named?		17
4. Write short answers of any six parts from the fol	lowing.	2 v 6 -40
i. Which statement is used to terminate the for and while loop?	II. How many times does the following loop	2 x 6 =12 execute?
100p1	a=0 .	
	D0	
	Print(a)	
iii. What is iteration?	until(a<1)	*:
v. Define combo box.	iv. Define array with its syntax.	
vii. What is the function of "F5" key?	vi. What is the use of horizontal scroll bar?	
ix. Define procedure.	viii. Define common Dialog Box.	
Secti	on -II	
	CCESS	
Note: Attempt only one question from the following.		8x1=8
5. Explain different components of logical model in detail.		08
<ol><li>Discuss different types of queries in detail.</li></ol>		08
	on -III	•
Note:Attempt any two questions either from "C-language	e" or "Visual Basic".	8x2=16
7. Describe the characteristic of Uish Issuel	rage	
<ol> <li>Describe the characteristic of High-level programming lan</li> <li>What is if-else-if?Explain its working.</li> </ol>	guage.	08
		08
9. Write a program to display the sum of first ten natural num		80
7. Explain in detail, the components or elements of IDE.	Basic	
8. What is extented if-then-else structure?Explain it.		08
9. Write a program to display the table of any number using I		89
		80
696-01-2	2-A	x

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Roll No.\_\_\_\_\_To be filled in by the candidate

Paper Code 8 8 3 7

### Sessions; 2012-2014,2013-2015&2014-2016

## Computer Science (Objective Type)

Time: 20 Minutes Marks: 17

**NOTE:** Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

#### **MS-ACCESS** 1.1. The category of data that describes an entity is called: (A) Attribute (B) Data item (C) Record (D) Tuple 2. Which of the following is used to associate entities with one another: (B) Attribute (C) Identifier (D) Relationship (A) Entity A relation that contains minimal redundancy and allow easy use is called: (B) Simple (A) Clean (D) Well structured (C) Complex Each set of related items in a table is called: Field (D) Query (A) Table (B) Record (C) 5. Which data type is default type in Access? (C) Text (D) Auto number (A) Memo (B) Number 6. A form within another form is called: (A) Subform Multiform (D) Outer form (B) Main form (C) 7. The manipulated and processed data is: (C) Figure (D) Information (A) Object (B) Data C-Language 8. In if statement, false is represented by: (C) 2 (D) 3 (A) o (B) 1 9. Which programming structure makes a comparison? (C) Sequence (D) Repetition (A) Relation (B) Decision One execution of a loop is known as: (D) Test (C) Iteration (A) Cycle (B) Duration 11. How many types of loop structure are in C: (D) 6 (C) 2 (A) 4 (B) 3 12. Local variables are called: (B) Automatic (C) Global (D) None (A) Normal 13. Which of the following functions is used to write a character to a file? (C) fputs() (B) putc() (D) fgets() (A) fputc() 14. All of the following are logical operators except: (C) OR (D) =(A) NOT (B) AND 15. The value of C expression 5/9\*2 is: (C) 0 (D) 2 (B) 1.11 (A) 0.27 16. Which of the following format specifiers is used for string: (D) %s (A) %f (B) %d (C) %c 17. Which of the following escape sequence is used to begin new line in C: (B) \n (D) \m (C) \t (A) \a Visual Basic OR The expression 0 mod 4 has a value equal to: (C) 2 (D) 4 (A) 0 (B) 1 9. The default message box style is: (A) Yes No (C) Yes No cancel (B) OK only (D) Retry cancel 10. All of the following are relational operators except: (D) <> (B) <= (C) # 11. In if statement, false is represented by: (C) 2 (D) 3 (A) 1 **(B)** 0 12. Each element in a control array is identified by: (C) List Index (A) Tab Index (D) Subscript (B) Index One execution of a loop is known as: (C) Test (D) Duration (A) Iteration (B) cycle 14. The term used to refer a program error is called: (A) Short circuit (C) Down (D) Bug (B) Crash 15. Visual Basic is a product of: (C) Microsoft (A) Sun system (D) IBM (B) Hewlett 16. List of commands such as open, print and exit can be found on: (B) Toolbar (D) Menu bar (A) Solution explorer (C) Toolbox 17. Methods characterized on object's:

(C) value

649-012-A-&&&&

(D) Appearance

(B) behaviour

(A) Style

Roll No. \_\_\_\_\_To be filled in by the candidate

Subject Code 6 0 8 3

## Sessions; 2012-2014&2013-2015&2014-2016

# Computer Science (Essay Type)

Time: 3:10 Hours

Marks: 83

#### Section -I

#### **MS-ACCESS**

2. Write short answers of any eight parts from the following.

2 x 8 =16

- List at least two advantages of DBMS.
- iii. Define Data integrity.
- v. Define composite key.
- vii. Define Modality with the help of figure.
- ix. List advantages of RDBMS.
- xi. Create a query in design view.

- State the purpose of Query Language.
- iv. State the use of Index in FMS.
- vi. How a relation is formed in database?
- viii. What do you mean by entity integrity?
- x. What is Microsoft ACCESS?
- xii. Define combo box.

#### C-Language

3. Write short answers of any eight parts from the following.

 $2 \times 8 = 16$ 

- i. What do you mean by bug?
- iii. State the purpose of Body of Function.
- v. What do you mean by assignment operator?

```
vii. Find the error in the following code.
```

```
# include (conio.h);
# include (stdio.h);
void main ( )
{
    Printf("OK");
```

ix. Find the output of the following code.

```
Printf("Pakistan\n is an \n Islamic\n country");
```

- ii. What is difference between machine language and high level language?
- iv. Define keywords.
- vi. Define character constant.
- viii. Find the output of following code.

```
int a,b,c;
a=b=c=6;
a=4;
b=a;
c=2;
```

Printf("%d%d%d",a,b,c);

x. Find the error in the following code

```
Main();
{
    Printf(OK)
}
```

- xi. List some input functions in C-language.
- xii. Describe getch() function.
- 4. Write short answers of any six parts from the following.

2 x 6 =12

i. Write down the output of following code.

```
Char ch='a';
switch(ch)
{
    case 'a':
        Printf("A");
    case 'b':
        Printf("B");
```

- iii. What is the use of if-else statement?
- v. Write down the syntax of do-while loop.

ii. What is the error in the following code?

```
int x=10,y=20;
if (x>10&y<30)
printf("%d",x+y);
```

- iv. Why break statement is used in switch statement?
- vi. What is the output of following code?

```
int x=10;
for(x=8;x>=1;x--)
printf("%d\n",x%z)
```

viii. What are local variables?

- vii. What are the two types of functions in C language?
- ix. Which function is used to close a file in C language?

#### OR Visual Basic 3. Write short answers of any eight parts from the following. 2 x 8 = 16 i. List three uses of logic flow diagram. ii. What is VBA? iii. State the purpose of naming controls. iv. Define object events. v. What is constant? vi. Name different form events. vii. What do you mean by unload? viii. Define explicit declaration. ix. Describe currency variables. x. Define symbolic constant. xi. What is message box? xii. State the term comments. 4. Write short answers of any six parts from the following. $2 \times 6 = 12$ i. Explain the use of input box. ii. What are relational operators? iii. What is the syntax of WHILE.....WEND loop? iv. What is a counter controlled loop? v. What is the use of option buttons? vi. What are function parameters? vii. What are Named constants in VB? viii. What is Nested-If statement? ix. Define control array? Section -II MS-ACCESS Note: Attempt only one question from the following. 8x1=8 5. What is data modeling? What are the ingredients of data modeling? 08 Explain different data types available in MS-Access. 08 Section -III Note: Attempt any two questions either from "C-language" or "Visual Basic". C-language 7. How many types of operators are available in C?Describe briefly. 80 8. Write a program that inputs a character from user and checks whether it is vowel or consonent using 80 switch statement? 9. What is "While loop"? Write its syntax. Explain its working with example. 80 Visual Basic Define the process of analyzing a problem in detail. 08 8. Write a program in VB that inputs a character from user and checks whether it is vowel or consonent? 08 9. What is While-Wend loop?Write its syntax.Explain its working with example. 80 Section-IV (Practical) 5x3=15 Note: Answer any three parts from the following. 10(A). Write a procedure for sorting using menu. B. Write a procedure for running switchboard in MS Access. C. Write a program that accepts two numbers and exchange their values in C-language or in visual basic. D. Write a program that accepts two numbers from user and displays whether numbers are equal or not by using function in C-language or in Visual Basic.

650-012-A----

E. Write a program that inputs a number from user and displays its table in C-language or in Visual Basic.

Roll No.\_\_\_\_\_To be filled in by the candidate

(A) Next loops

Paper Code 4 8

Marks: 15

#### Session; 2015-2017

## Computer Science (Objective Type)

Time: 20 Minutes NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided. **MS-ACCESS** 1.1. A database is an organized collection of \_\_\_\_\_related data: (A) Physically (D) logically (B) loosely (C) random 2. A primary key that consists of more than one attributes is called: (B) Composite key (D) Control key (A) Foreign key (C) Primary key In an E-R diagram, a rectangle represents a(n): (B) Attribute (C) Relationship (A) Entity (D) Field 4. The output of the query is in the form of a: (B) Report (C) Table (D) Query (A) Form 5. Which data type is the default data type in MS-Access: (C) Auto number (A) Text (D) Number (B) Memo A form within another form is called: (A) Main-form (C) Sub-form (D) Simple-form (B) Multi-form C-Language A program's syntax error is detected by: (C) Linker (D) Compiler (A) Debugger (B) Loader 8. For A=4 and B=4 which expression evaluates as true? (A) A >= B(C) A<B (D) A>B (B) A!=B 9. Which escape sequence can be used to begin a new line in C-language? (D) \b (A) \a (B) \n (C) \t 10. Graphical representation of a program is called: (A) Logical chart (B) Binary chart (D) E-R chart (C) Flow chart In If-statement, true is represented by: (B) 1 (C) 2 **(D)** 3 (A) 012. The statement causes a loop to terminate early: (B) Terminate (C) End (A) Exit (D) Break 13. How many types of loop structures are present in C? (C) 3 (A) 1 **(B)** 2 (D) 4 14. Global variables are created in: (B) ROM (A) Cache (C) Register (D) RAM 15. Which mode opens only an existing file for both reading and writing? (D) "a+" (B) "w+" (C) "r+" (A) "w" Visual Basic OR 7. The set of rules for writing a program in any programing language is called: (C) A program (B) Debug (D) Syntax (A) Bug 8. Visual Basic is a product of: (A) Microsoft (C) Sun-System (D) Hewlett (B) IBM 9. The naming pre-fix for a Text box control is: (A) lab (C) xtx (D) lbl (B) txt 10. Which of the following is a valid VB data type? (B) Char (C) Boolean (A) Array **(D)** Int 11. The expression 3MOD5 has a value equal to: (A) 0 (C) 5 (D) 8 **(B)** 3 12. All of the following are relational operators EXCEPT: (A) <> (B) =(C) >= (D) & 13. Which of the following returns the true if A=25 and B=35? (B) A>=B (D) A=B (A) A+B (C) A<>B 14. The keyword that marks the end of a WHILE structure: (A) END (C) SKIP (D) WEND (B) LOOP Sentinel controlled loops are also known as:

(B) Conditional loops

(C) Counter loops

637-012-A-☆

(D) Nested loops

Roll No. To be filled in by the candidate

Session; 2015-2017

## Computer Science (Essay Type)

Time: 2:10 Hours

Marks: 60

## Section -I MS-ACCESS

2. Write short answers of any six parts from the following.

 $2 \times 6 = 12$ 

- i. Why is report generator used in database system?
- iii. Who is a database administrator?
- v. What is the concept of transitive dependency?
- vii. What do you know about RDBMS?
- ix. Enlist different types of forms in MS-ACCESS.
- ii. What is the purpose of backup and recovery?
- iv. Write the purpose of feasibility study.
- vi. Define repeating group.
- viii. Define the term cardinality of a relation.

#### C-Language

3. Write short answers of any six parts from the following.

 $2 \times 6 = 12$ 

- i. What is the difference between machine language and assembly language?
- ii. What is meant by structured programming language? iii. What is meant by comments. Also give an example.
- iv. What is the difference between implicit and explicit type casting?
- v. Define format specifier with example.

```
vi. Trace the errors.
     # Include <stdio.h>
     void main ()
         printf("High level language")
```

```
vii. Find the output of the following code
      # include <stdio.h>
        void main ()
```

```
int x=10, y=20, z=30;
   x=x+y;
   y=y+z;
   z=x-y;
```

printf ("result=%d%d%d",x,y,z); Define source code.

```
viii. Find the errors
      # include <stdio.h>
        void Main()
         int x,y;
         x=10; y=20;
         printf ("%d%d",x,y,);
```

4. Write short answers of any six parts from the following.

 $2 \times 6 = 12$ 

- Write use of if,else if statements.
- iii. Find error from following code:

```
int y;z;
 if (y==z)
 printf ("yes")
```

v. Find out output of following.

```
int num=1;
  while (num<6)
{ printf("\n num=%d",num);
     n+1;
```

- vii. Describe user defined function.
- ix. Compare binary and text stream.

- ii. Describe nested loop.
- Find out from the following

```
int price=19;
if (price!=10)
printf("price");
```

vi. Convert while into dowhile

```
int i=1;
while (i<=15)
{ printf ("n";i);
       i=i+1;
```

viii. What is function call?

## OR Visual Basic

3. Write short answers of any six parts from the foll	lowi	ng. 2	x 6 =12
i. What is properties window?	ii.	Define source code.	
iii. What is meant by structured programming language?	iv.	What is the difference between a project file an file?	d a form
v. What is difference between machine language and	vi.	Trace the errors.	
assembly language?		Private b1-click()	
	9	text1 = "welcome to VB"	
		End sub	
vii. Find the errors.	viii.	. Find the output of the following code.	-
Private sub b1-click ( )	*	private sub command1-click()	
option Explicit		option explicit	*
x=10 y=25		Dim x,y,z as integer	
z=x+y		x=10	
Printf("result="+z)		y=20	
End sub		z=x+y	
	40	Print("result="&x&" "&y&" "&z)	
(4)		End sub	
ix. How are the properties set at design time and run time	?	**	
4. Write short answers of any six parts from the foll	owi	ng. 2:	x 6 =12
i. What do you know about Visual Studio?	ii.	Differentiate between z="p" and z=p.	89
iii. Define operator precedence.	iv.	What is an assignment operator?	
v. Enlist about named constant.	vi.	How are character stored?	
vii. Show out the output.	viii.	Find error from following code.	10
Dim m,n		Dim x,y as integer	
m=40		x==13	
n=mxm		y=3	
print Result n		print x%y;	
ix. Define about foccis.			
Sect	ion	-11	
MS-A	CC	ESS	
Note: Attempt only one question from the following.			8x1=8
5. What is data modeling? Explain ingredients of data mod	leling	).	08
6. What are queries? Explain types of queries.			08
Secti	On	-TTT	
Note:Attempt any two questions either from "C-language			8x2=16
		**************************************	15.000 (1.50) Si
C-lang	jua	ge	
7. Write down step wise procedure for writing a C Program	١.		08
8. Write a program in C-language that inputs two numbers		user and finds whether they are equal or not	08
9. What is while loop?Write its syntax,also draw flowchart.			08
Visual		** 1040 IB CONTROL STANFON	00
7. Explain application development steps in visual basic wi	2000		08
8. Write a program in V.B that inputs two numbers from us		500-34 c 2 . ● 3 t 3 5 5 3 3	
			08
9. What is while-wend loop?Write its syntax,also draw flow	cnar	i. Explain its working with the help of an example	e. <b>08</b>

638-012-A-13000

Time: 20 Minutes

To be filled in by the candidate

Paper Code 8 8 3 1

Marks: 17

## Sessions;2013-2015&2014-2016

# Computer Science (Objective Type)

	E: Write answers to the questions on objective answer she		71		
ques	stion are given. Which answer you consider correct, fill the o	orres	ponding circle A,B,C or	Dg	iven in front of each question
with I	Marker or pen ink on the answer sheet provided.	**			
-	MS-AC	CCE	SS		
<b>1.</b> 1.	Which of the following data model is more flexible:				
_	(A) Network (B) Heirarchical	(C)	Relational	(D)	Object oriented
2.	Data inconsistancy is caused by:				
	(A) Data organization (B) Data integrity	(C)	Data independence	(D)	Data redundancy
3.	Primary key that consists of more than one attributes is	s:			
	(A) Composit key (B) Candidate key	(C)	Foreign key	(D)	Alternate key
4.	A table may have foreign keys:		,	. ,	
	(A) one (B) two	(C)	four	(D)	any number
5.	In 3rd normal form, which form of dependency is remove			<b>\-</b> /	,
22.5	(A) Functional (B) Non-functional	(C)	Associative	(D)	Transitive
6.	Which is a default data type of an attribute in table design			(-,	110101010
	(A) Text (B) Number	(C)	Auto number	(D)	Memo
-7.	Which of the following is used to create and modify a fo		Auto Hamber	(0)	Wellio
	(A) Form view (B) data sheet view	(C)	form design view	(D)	new form view
	C-Lan			(D)	new form view
8	Which of the following key combination is used to comp	_	_		
0.	(A) Ctri+F9 (B) Ctrl+F8			(D)	Chiff + EO
9	The number of bytes a double data type occupy in men		Alt+F9	(D)	Shift +F9
٥.	(A) 04 (B) 08			<b>(D)</b>	40
10	2011 (1911) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(C)		(D)	12
10.	Which of the following format specifier is used for integer	~~~		<b>.</b>	•
11	(A) %f (B) %d		%с	(D)	%s
11.	An ampersand '&' before the name of a variable denote	Withdress			
40	(A) address (B) actual value		variable name	(D)	data type
12.	Which programming structure makes only comparison?		Marion to Junio 40 4 de de de-		
40	(A) sequence (B) selection	(C)	repetition	(D)	itrative
13.	Which of the following is conditional operator?				
	(A) Relational operator (B) Logical operator	(C)	Ternary operator	(D)	increment operator
14.	What statement is used to move control to start of a loc	p?			*
	(A) continue (B) break	(C)	return	(D)	exit
15.	Which of the following is executed once in a for loop?				
	(A) Decrement (B) Increment	(C)	Test condition	(D)	Initialization
16.	Variable declared outside of any function is:				
	(A) global variable (B) local variable	(C)	static variable	(D)	automatic variable
<b>-</b> 17.	Which of the following mode creates new file?				
	(A) "w" (B) "w+"	(C)	"r+"	(D)	"a+"
_	OR Visua	l Ba	sic		
8.	The number bytes used by long integer in visual basic.				
	(A) 01 (B) 02	(C)	04	(D)	08
9.	The visual basic project is saved with extension:			50 <b>7</b> (1000- <b>10</b> )	
	(A) .Exe (B) .VBP	(C)	.frm	(D)	.VB
10.	The Cint() method converts valid text int which type?	25 E		3 .50	
	(A) single (B) integer	(C)	double	(D)	float
11.	The MOD operator in VB is used for:		4	,-,	
	(A) Integer remainder (B) exponentiation	(C)	division	(D)	multiplications
12.	Which of the following is a unary operator in VB?	` '		<b>\-</b> /	, maniphoduono
	(A) AND (B) NOT	(C)	=	(D)	+
13.	A statement block in VB can consist of how many lines?			(-)	*
	(A) 01 (B) unlimited		at most 255	(D)	128
14.	Which loop is suitable if the number of itrations are not l			(0)	120
.55/05545	(A) Doloopwhile (B) ForNext		DoFor	וטו	For While
15	Setting the table index of a control to O will:	(0)	DO1 01	(0)	ForWhile
	(A) displays the control to right side	/P\	makes the central vi-	ibla	
	(C) align the control to left	1000000000	makes the control vis	INIE	
16	You can enter data in a control only when it has the:	(U)	set the focus on it		
.0.		(0)	tah order	(D)	mathed
17	(A) focus (B) property When you run multiple form project, visual basic automa		tab order	(D)	method
	(A) the first form saved (B) the startup form			(D)	all the farmer in and the state
	(1) the mationin saved (1) the startup form	$(\circ)$	the last form saved	(D)	all the forms in application

Roll No. To be filled in by the candidate

## Sessions; & 2013-2015 & 2014-2016

# Computer Science (Essay Type)

Time: 3:10 Hours

#### Section -I **MS-ACCESS**

2. Write short answers of any eight parts from the following. i. What is meant by data manipulation?

 $2 \times 8 = 16$ 

 $2 \times 8 = 16$ 

Marks: 83

iii. Write the purpose of using views.

v. Give any four examples of entity.

vii. Define relationship using an example.

ix. Describe database object.

xi. Why is a list box used in form?

Differentiate between candidate key and primary key. iv. Define parent and dependent table.

vi. Which activities are involved in data analysis?

viii. Define the concept of synonym.

x. What is the use of input mask?

xii. What do you know about relational database management system(RDBMS). C-Language

```
3. Write short answers of any eight parts from the following.
```

i. Distinguish between source code and object code.

iii. Describe the delimiters.

v. Predict the output of the following code:

```
int a=21:
printf("%d",a%2)
```

void main ()

```
vii. Predict the output of the following code:
         int x=5:
         printf("%d,%d,%d",x,x*4,x%4);
```

ix. Why is the ampersand(&) used in scanf function? xi. Predict the output of the following code

```
void main ()
  int x,y,z;
  x=3:
printf("%d%d%d",x+y,y+5,x+z);
   getch();
```

ii. What is the use of "define" preprocessor?

iv. Define user-defined identifier and give some examples.

vi. Trace the error in the following code:

```
int a,b;
 clrscr ()
 a=b=x=0,
   b=a - -:
   a=x++;
printf("%d,%d",a,b);
```

viii. Describe field width specifier, also give any two examples.

x. What are integer constant? Give one example. xii. Trace the errors from the following code:

```
void main ()
  float a=3.14;
 printf("%d",a);
  getch();
```

4. Write short answers of any six parts from the following.

i. Write two advantages of switch statement.

 $2 \times 6 = 12$ 

iii. Trace the error. void main () int a;b; a=10;b=5; if a>b printf("Pakistan"); else

printf("Hold");

v. Trace output: K=0: While (k<=5) printf ("%d\n",k); K++:

ii. Write the syntax of "if-else if-else" statement? iv. Trace output:

int p=3, q=5; if ((p>q)II(p!=4))p=p+1; else p=p-1; p=p\*2; printf("%d",p)

vi. Convert the following code into while loop for (int i=1;i<=10;i++) Printf("%d\n",i);

vif. What is a function call?

viii. What is Binary Stream?

ix. Why formal parameters are different from actual parameters?

Time: 20 Minutes

Roll No.\_\_\_\_\_To be filled in by the candidate

Paper Code 8 3

Marks: 15

## Session;2015-2017&2016-2018

# Computer Science (Objective Type)

TON	E: Write answers to the qu	estion	s on objective answer sh	eet p	rovided. Four possible	ansv	vers ABC & D to each
ques	stion are given. Which answe	er you	consider correct, fill the	corre	sponding circle A.B.C o	or D c	given in front of each question
with I	Marker or pen ink on the an	swer	sheet provided.	10	, , , , , , , , , , , , , , , , , , , ,		work in front of each question
•			MS-A	CCE	SS		<b>%</b>
1.1.	The graphical query tool i	is kno	wn as:				
	(A) Query grid	(B)	Design grid	(C)	Query form	(D)	Design form
2.	A form within another form	n is ca	alled:	20 18	), Table 10 (10 (10 (10 (10 (10 (10 (10 (10 (10	(-)	Booigh form
•	(A) Sub form	522	Main form	(C)	Multiform	(D)	Handas
3.	The extension of image fi	75 (T)		(0)	Walthorn	(U)	Header
	(A) .exi		.doc	(0)	h man		
4	0.50 50			(C)		(D)	.ppt
٦.	A primary key that consist			0.00			
-	(A) Foreign key		Composite key	(C)	Multi valued key	(D)	Global key
5.	Merging the relation is als	so kno	own as:		4		
	(A) view integration	(B)	view entities	(C)	view tables	(D)	view relations
6.	A report may be based on	n:					
	(A) Table	(B)	Field	(C)	Byte .	(D)	bits
V2201			C-Lan		1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	(-)	
7.	While Loop is also called:		##				
0	(A) Conditional loop	(B)	Wend loop	(C)	Counter loop	(D)	Nested loop
8.	Which is a loop stunt?	(D)	if also				
9	(A) if A built-in function:	(B)	if else	(C)	switch	(D)	for .
٥.	(A) cannot be redefined	(B)	can be redefined	(C)	connet return value	<b>(D)</b>	2011111
10.	The following function is u			(C)	cannot return value	(D)	should be redefined
	(A) putc()	02.02.00 (CO)	getc()		fputs()	(D)	fgets()
11.	The ".exe" file in c-langua			, ,	,( <i>)</i>	(0)	igets( )
	(A) Linker		_oader	(C)	Compiler	(D)	Interpreter
12.	Variable cannot contain a	& B.	• ***				T I
12	(A) Number		Jnderscore	(C)	Letter	(D)	Period
13.	Which of the following is r (A) \t			(0)	<b>.</b>		
14.	Another term for a condition	( <b>B</b> ) onal o		(C)	vy	(D)	\f
	(A) Ternary		Binary	(C)	Byte	(D)	itoration
15.	Conditional operator takes		353. <b>4</b>	(-/	5,10	(D)	iteration
-	(A) one operand	(B) T	Two operands	(C)	three operands	(D)	four operands
-	OR		Visua	l Ba	sic		2000.000
7.	Logical operator:	<b>(D)</b>		0.127025100			
8	(A) And	(B) =		(C)	>=	(D)	<>
О.	How do you find loop state (A) if else	(B) i		(C)	quitob	<b>(D)</b>	<b>≠</b> 2000
9.	The keyword use to termin			(C)	switch	(D)	for
•			End do	(C)	Exit do	(D)	End while
10.	In counter controlled loop	it is in	nportant to declare		counter variable:	(2)	LIIG WITHE
			nitialize		Size	(D)	Specify
11.	The ".exe" file in visual bas		tanan na mpakan na na na manan-tanan na na manan-tanan na			100 (100)	150 6
12			oader	(C)	Compiler	(D)	Interpreter
12.	In Visual Basic variable ca (A) Number	Number of the	Jnderscore	(0)	1 -44		
13.	Which form property will po				Letter .	(D)	period
	The state of the s		Border text		Text	(D)	Header
14.	Another term for a condition			1-7		(1)	Header
040.000	(A) Ternary	Constant of the Constant	Binary	(C)	Byte	(D)	Iteration
15.	MoDt is:	,			500 E	ortside V	neronalisty revealed. Social
	(A) 20	(B) 1		(C)		(D)	2
			637-012-A	- 12 x	रभ		35

Roll No. To be filled in by the candidate

## Sessions; 2015-2017&2016-2018

## Computer Science (Essay Type)

vii. What is function?

ix. Define a stream.

Time: 2:10 Hours Marks: 60 Section -I **MS-ACCESS** 2. Write short answers of any six parts from the following.  $2 \times 6 = 12$ i. Define data manipulation. Describe network model. iii. Write any two uses of form. iv. Define the term cardinality. v. Describe the term synonym. vi. Briefly explain normalization. vii. State the use of reports. viii. Define filter. ix. Differentiate between fixed length and variable length field. C-Language 3. Write short answers of any six parts from the following.  $2 \times 6 = 12$ i. Differentiate between compiler and Interpreter. Define object code. State the purpose of header file. iv. What is assignment operator? v. Enlist logical operators. vi. Define escape sequence. vii. Find the error viii. Find the error Void main () void main () int c=7 int a=10 printf("%d",C; printf("%d",a); ix. Write the output float f=3.14159; printf ("%8.4f",f); 4. Write short answers of any six parts from the following.  $2 \times 6 = 12$  Find out two errors from following code. ii. Find output from following code if (x==y)int price=10; printf("hello") if (price==10) printf("%d",price); iii. Describe selection structure. Define sentinal values. v. Find out output from following code. vi. Convert while loop into Do while loop int i,j=0; int i=1; for(i=1;i<=5;++i)while (i<=15) { printf("%d%d",i,j);} { printf("n",i) i=i+1;}

viii. Differentiate between function defination and declaration.

3. Write short answers of any six parts from the following.

3. Write short answers of any six parts from the fo	ollowing.	2 x 6 =12
<ol> <li>Write any two properties of algorithm.</li> </ol>	ii. Why is assembly language called symbolic la	
iii. How properties are set at design time and run time?	iv. When is the visual basic in design time?	33
<ul> <li>v. Define project explorer window.</li> </ul>	vi. Show the output.	
	Dim A,B as integer	
	A=10	
	B=A*A/A	
ii. Find the errors	print B	
Option explicit	viii. Show output:	
Dim D,E integer	Dim R,S,T as integer R=9	
D=5	S=4	
	T=R*S+15	
E=13	Print T	18
F=(D*E)+7	ring i	
Print F		
ix. Differentiate between structured and object oriented p	5	
4. Write short answers of any six parts from the fo	10.1000	2 x 6 =12
i. Define Expression.	ii. Define named constant.	
iii. What is specified variable declaration?	iv. How is character stored in VB?	02
v. What data type is used in storing data?	vi. List out keyword with examples.	
ii. What is meant by data type?	viii. Show output of following	
	Dim A,B, as integer	
	A=20	
	B=A*A	
	Print B	•
ix. How to write following expression in VB.		
$X = \frac{3Y}{5 - Z}$		
5-Z		
Sec	ction -II	
MS-	ACCESS	
ote: Attempt only one question from the following.		8x1=8
5. Define key and discuss its different types.		08
6. What is data type?Explain six different data types avai	ilable in MS-Access	
	TOTAL POR CO. Amortisans	08
	tion -III	
ote:Attempt any two questions either from "C-languag	ge" or "Visual Basic".	8x2=16
C-lar	nguage	***
7. What is bug and debugging? Explain types of errors in	C-program.	80
3. Write a program in C-language, which inputs two num	bers from the user and determines whether	- 08
the numbers are equal or not.		
9. What is While loop?Write its syntax,also draw flowcha	art Evolain its working with the help of an example	00
	t. 960m 140	08
	al Basic	
7. What are controls? Explain three basic controls in Visus		. 08
<ol><li>Write a program in Visual Basic, which inputs two num</li></ol>	nbers from the user and determines whether	08
the numbers are equal or not.		
9. What is While-Wend loop?Write its syntax,also draw fl	lowchart.Explain its working with the help of an exam	nple. 08
	-012-A	s. ■ executio 45 t © 750575.1
75.5		

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each

Roll No.

Time: 20 Minutes

\_To be filled in by the candidate

Paper Code 8 8 3 5

(D) Not(p>q)

Marks: 17

### Session;2014-2016

## Computer Science (Objective Type)

question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided. MS-ACCESS -1.1. The data in tables is entered in: (A) Design view (B) Normal view (C) Datasheet view (D) layout view Which of the following is used to retrieve data from database and represent it to the user in a formatted way? (A) Report (B) Form (C) Query (D) Table 3. Which of the following is not a DBMS? (A) MS-Access (B) Excel (C) SQL server (D) Oracle SQL stands for: (A) Sort Query language (B) Self Query Language (D) Structured Query Language (C) Seek Query Language 5. The foreign key is found in: (A) Parent table (B) Dependent table (C) Pivot table (D) Index table 6. In an ER-diagram, the rectangle represents: (B) Attribute (C) Relationship (D) None (A) Entity The goal of normalization is to: (A) Get stable data structure (B) Remove constraints (C) Increase redundancy (D) Increase no. of relations C-Language One execution of a loop is known as a(n): (B) Duration (C) Iteration (D) Test (A) Cycle 9. A loop which never ends is called: (C) nested loop (A) Running loop (B) Continuous loop (D) infinite loop 10. The scanf is a: (B) User defined function (D) Keyword (A) Built-in function (C) Local function 11. A file is stored in: (C) Hard Disk (A) RAM (B) ROM (D) Cache 12. Which data type is used to store a string value in a variable? (B) float (C) long (D) char (A) int 13. Division by zero is an example of: (B) Runtime error (C) Logical error (A) Compile error (D) None 14. How many variables can be used in one printf function? (B) two (C) ten (D) many (A) one 15. Which of the following is an output function? (C) getche (D) scanf (A) printf (B) getch 16. Which of the following statement is the simplest form of decision structure? (B) if statement (C) while loop (D) nested if (A) switch 17. Which of the following is equivalent to (p>=q)? (B) !(p<q) (D) !(p>q) (C) p>q (A) p<q Visual Basic OR One execution of a loop is known as a(n): (C) Iteration (D) Test (B) Duration (A) Cycle 9. A loop which never ends is called: (B) Continuous loop (A) Running loop (D) Infinite loop (C) Nested loop 10. The scanf is a: (B) user defined function (C) Local function (D) keyword (A) Built-in function A file is stored in: (B) ROM (C) Hard Disk (D) Cache (A) RAM 12. Which data type is used to store a string value in a variable? (D) String (B) Long (C) Real (A) Integer 13. Division by zero is an example of: (B) Runtime error (C) Logical error (D) None (A) Compile error 14. How many variables can be used in one print function? (C) ten (D) many (B) two (A) one 15. Which of the following is an example of output function? (D) input box (A) print (B) load (C) cls 16. Which of the following statement is the simplest form of decision structure? (C) While...Wend (D) Nested If (A) Select...case (B) If statement 17. Which of the following is equivalent to (p>=q)?

(C) p>q

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(B) Not(p < q)

(A) p<q

Roll No.

To be filled in by the candidate

#### Session;2014-2016

viii. Define function Header.

## Computer Science (Essay Type)

While (c++<=4);

vii. What is function call?

ix. What is text file?

Time: 3:10 Hours Marks: 83 Section -I MS-ACCESS  $2 \times 8 = 16$ 2. Write short answers of any eight parts from the following. ii. Differentiate between secondary key and primary key. Distinguish between chekbox and radio button. iv. What is the purpose of logical database design? iii. List any two properties of a relation. v. Name any four data types available in MS Access. vi. State the purpose of using normalization. vii. How is referential integrity achieved? viii. State the purpose of using reports in MS Access. x. Name two table views available in MS Access. ix. Write any two advantages of using RDBMS. xi. Differentiate between data redundancy and data inconsistency. xii. Write any two constraints for selecting a file organization. C-Language 3. Write short answers of any eight parts from the following.  $2 \times 8 = 16$ ii. Differentiate between syntax error and logical error? i. Briefly describe delimiter? iv. Distinguish between implicit and explicit type casting. iii. What are run-time errors? v. Find errors in the following code statement. vi. Find errors in the following assignment. include <STDIO.H> int a,b,c,d: char grade; void main (); a=10;Printf("Pakistan); b="20"; c = 30; grade=A; vii. Find out the output of following expression. viii. Differentiate between gets and puts function. 20\*(10/(5-3))+13 ix. Define printf and scanf function. x. Define assignment statement. xi. Predict the output of following. Predict output of the following. Printf ("Pakistan\n Good\n Country"); Printf ("Welcome \t to \t Lahore"); 4. Write short answers of any six parts from the following. i. List different types of control structures in C-language. ii. Differentiate between break and continue statement. iii. Trace the error from following code segment. iv. Change the following code into while loop. int a,b,c; for (i=1;i<=10;i++) a=10 b=3; Printf("\n Pakistan"); if(a%b==1);Printf("%d",c); v. Write the output of the following code vi. Trace the error in the following code segment. int c=1; for(a=1; a <= 10; a++);do Printf("%f",a); printf ("%d",c);

#### Visual Basic OR

OK VI	isuai basic	
3. Write short answers of any eight parts from the f	following.	2 x 8 =16
<ol> <li>Define structure Programming.</li> </ol>	<ol><li>Why we need translators.</li></ol>	
<ol><li>iii. Differentiate between property and method.</li></ol>	iv. Define integrated development environment	t.
v. List down any two controls.	vi. Describe the purpose of code window.	150
vii. How are event procedure named.	viii. Distinguish between keydown and keyup ev	ents.
ix. Describe Load method.	<ol><li>x. Find out errors in the following code.</li></ol>	
	A integer	
vi. Write down output of the following code	A=Contnt(TextBo.Msg)  xii. Write down output of following code.	
xi. Write down output of the following code.  Dim a As Integer	Dim a,b As Integer	
a=10	a=20	
Print a\10	b=6	
	Print"a\b="&a\b	
	Print"aModb="&aModb	0 0 40
4. Write short answers of any six parts from the fol		$2 \times 6 = 12$
i. Define Nested loop in Visual Basic.	ii. What is index in an Array?	
iii. Differentiate between "Dim" and "Redim".	iv. What is textfile?	
v. Define For-NEXT loop working?	vi. What is control array?	
vii. List three properties of Combox Box control.	viii. Write two Focus events.	
ix. How a function is called(invoked) in Visual Basic?		
	tion -II	
	ACCESS	0-4-0
Note: Attempt only one question from the following.		8x1=8
5. What is a key? Describe any three types of keys used in	in database.	08 08
<ol><li>Discuss different methods of modifying a table.</li></ol>	on -III	06
		8x2=16
Note:Attempt any two questions either from "C-language"		0.00
	iguage	e in 08
7. What is the difference among Compiler, Assembler and	I interpreter? Also give one example of a language	: 111 00
which they are used.	ore and finds maximum of them	08
<ol> <li>Write a program in C language that inputs three numbers</li> <li>What is "While" loop? Write the syntax and draw its floop</li> </ol>		08
	I Basic	00
7. Write down the difference among compiler, assembler		08
Write down the difference among compiler, assembler to the second of the second o		08
9. What is "DoWhileLoop?Write the syntax and draw		08
	(V (Practical)	5x3=15
Note: Answer any three parts from the following.	( radioar)	ONO 10
10(A). Write a procedure to create a form in MS-Access.		
B. Write a procedure to create a report in MS-Access.		<b>\$</b>
C. Write a program in C or VB that inputs radius of a ci	ircle and finds its area of circle by formula. $A = \pi R$	2
D. Write a program in C or VB that prints even integers		ATP
E. Write a function in C or VB that takes value of a var	가 내일을 하는 사람이 되었다면서 가득하는 사람들이 되었다.	
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Roll No.\_\_

\_To be filled in by the candidate

(For all sessions)

Paper Code 8

8

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## Computer Science (Objective Type)

Time: 20 Minutes

Marks: 15

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

#### MS-ACCESS

.1.	The maximum number of t	tables in a database ar	re:			
	(A) 01	(B) 02	(C)	03	(D)	Many
2.	In MS-Access, Find and re	eplace command is fou				
	(A) File menu	(B) Edit menu	(C)	View menu	(D)	Tool
3	The logical grouping of ch	(5. (5.5)	3-7		\- <i>\</i>	
٥.			(0)	C: ald	<b>(D)</b>	Detekasa
129	(A) File	(B) Record	55 0550 0537	Field	(0)	Database
4.	A virtual table that is cons	tructed from other table	es is called:			
	(A) view	(B) Table	(C)	Relation	(D)	Tuple
5.	In an ER diagram,a diamo	ond represents:				
	(A) Entity	(B) Attribute	(C)	File	(D)	Relationship
6.	Which form of dependenc	y is removed in 3NF?				
	(A) Full Functional	(B) Non-Functional	(C)	Transitive	(D)	Partial
	Mar di	100 2	C-Languag		1 1	
7.	Which statement causes a			<b>2</b> 0000		
	(A) End	(B) terminate	(C)	break	(D)	exit
8.	Which of the following is a				•	27
	(A) If-else-if	(B) switch	(C)	if-else	(D)	for
9.	Global variables are creat	ed in:				47
	(A) ROM	(B) RAM	(C)	Cache	(D)	Hard disk
10.	On successfully closing a	file in C,the fclose() ref	turns:			
•	- 1884 M. M. C. M.	(B) NULL	(C)	1(ONE)	(D)	File pointer
11.	Division by zero (e.g., 5/0)	10		A Versia divisioni di constitui di se		
••	(A) Compiler error	1 7일 어린 경우		Syntax error	(D)	Logical error
12.	Which of the following ope	539		ıı.	<b>(D)</b>	1
12	(A) =	(B) +	(C)	^	(D)	1
13.	The escape sequence for (A) \t	(B) \b	(C)	la	(D)	\\
14	An if statement inside and	all Markagalana a a sanana a sana a sana	Standard VE W	10	(0)	W.
17.	(A) if statement	(B) if-else statement		Nested if statement	(D)	switch statement
15.	When a relational express				,- <i>i</i>	
120000	(A) 0	(B) 1	(C)	-1	(D)	5
	OR	100 B	Visual Ba	sic	S 150	•
7.	The statement that will im	mediately terminate a	FORNEXT	loop is:		
	(A) EXIT	(B) Terminate	(C)	Exit For	(D)	END
8.	Which of the following is a					9
2023	(A) IFThenElse			IFEND IF	(D)	FORNEXT
9.	How many options can be		200		<b>(D)</b>	•
40	(A) 0	(B) 1	(C)	2	(D)	3
10.	Data can be entered in a (A) Focus	(B) Mask		Event	(D)	Method
11	Which event detects the	• •			(0)	Wethou
• • •	(A) Keyboard	(B) Keypress		Click	(D)	Load
12.	Which datatype is used to				. ,	
	(A) Boolean	(B) Short	(C)	Integer	(D)	Date
13.	The default message box	style is:				
	(A) Retry cancel	(B) Yes No Cancel	(C)	Yes No	(D)	Ok only
14.	IFEND IF statement ins	side another IF stateme	ent is called:			
	(A) IFEND IF statement		(B)			5 <b>4</b> .1
C.W.CH.	(C) Nested IF statement		(D)	IFELSEIF		
15.	The expression 15 MOD		120220	7	<b>(D)</b>	
	(A) 3	(B) 5	(C)		(D)	8
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\_\_\_\_\_To be filled in by the candidate

## (For all sessions)

# Computer Science (Essay Type)

Time: 2:10 Hours

Marks: 60

#### Section -I

#### MS-ACCESS

2. Write short answers of any six parts from the following.

 $2 \times 6 = 12$ 

- i. List file names from usage point of view.
- · iii. Define attribute with example.
  - v. Define data integrity.

- "vii. State the use of wild cards.

- ii. Who is a data administrator?
- iv. Why is Normalization used?
- vi. Define form.
- viii. What are check boxes?
- ix. Differentiate between data redundancy and data inconsistency.

#### C-Language

3. Write short answers of any six parts from the following.

 $2 \times 6 = 12$ 

- i. Write the purpose of define directive.
- iii. What is the purpose of include directive?
- v. What is compound condition? Give an example.
- vii. Find errors

```
include <stdio.h>
 void main (void)
 int x=3
printf("%d",x);
```

- ii. Why do you include "stdio.h" header file in c-program?
- iv. Determine output of the code.

```
int x=15;
int y=5;
printf("%d \t %d",x%y,x/y);
```

- vi. How an arithmatic overflow occurs?
- viii. Determine the output of the following code.

```
int a=10;
int b=12;
int c;
c=a+b;
printf("c=%3d",--c);
```

- ix. Write the use of printf() function with an example.
- 4. Write short answers of any six parts from the following.

 $2 \times 6 = 12$ 

```
i. Determine the output
        if (7\%3==0)
         printf ("Punjab");
        else
          printf ("Sindh");
```

- iii. Define compound statement.
- v. Determine the output

```
int n=1;
do
   printf ("%d \n",n);
      n++;
  } While (n<=5);
```

- vii. Why is function used in program?
- ix. Compare binary and text stream.

- ii. Find the error void main () Far (int n=1; n<=5, n++) printf("%d",n); iv. What is nested loop?
- vi. Find the error void main () int y=10; IFF (y==5)printf("%d" y);
- viii. Describe function definition.

## OR Visual Basic

3. Write short answers of any six parts from t	he following	120
i. What is program?	9-10 (1997)	2 x 6 =12
iii. How visual basic code is executed?	and a second of the second of	al basic?
<ul> <li>What is difference between project and form.</li> </ul>	<ul><li>iv. Define the purpose of code window.</li><li>vi. Define event and method.</li></ul>	
vii. Determine the output.	viii. Find errors in the code.	
DIM x As Integer	DIM x As float	
x =7/3	x=3.5	
print x	x+x=7.0	
ix. What is active-x control?		
4. Write short answers of any six parts from the	ne following.	2 x 6 =12
<ol> <li>Define compound statement.</li> </ol>	ii. What is nested loop?	2 X 0 -12
iii. Find the error	iv. Determine the output	
Dim y=10; as integer	Dim n=1 as integer;	
IFF y=5 than	do	
print y	print n	
	n=n+1	
	Loop While n<=5	
v. Determine output	vi. Find the error	
if (7%3=0) then	DIM n=1 as Integer	
print ("Punjab");	For m=1 to 5	
else	print n	
print("Sindh");		•3
vii. Why is function used in program?	viii. Describe function definition.	
<ol><li>ix. Compare binary and text stream.</li></ol>		
	Section -II	
N	IS-ACCESS	
Note: Attempt only one question from the following	·	8x1=8
5. Define data modeling. Explain ingredient of data modeling.	odeling.	
6. List down different data types in MS-Access.Discus		08
	ection -III	80
Note:Attempt any two questions either from "C-lang		
		8x2=16
	language	
<ol><li>Define data type and describe three types in detail.</li></ol>		08
8. Write a program in C language that inputs a numbe	er and finds whether it is positive, negative or zero.	08
<ol><li>Define while loop and differentiate while and do-whi</li></ol>	ile loop in detail.	08
Vis	ual Basic	
7. Define data type and describe three types in detail.		00
8. Write a program in Visual basic that inputs a number	er and finds whether it is negitive	08
9. What is Do-While loop?Discuss flowchart,syntax and	d example of De Milital	08
		.08
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Inter-(Part-II)-A-2021

Roll No.\_

To be filled in by the candidate

(For all sessions)

Paper Code | 8

# Computer Science (Objective Type)

T	im	e:	20	Min	utes
					•

Marks:15

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

# MS-ACCESS

.1.	Arithmetic manipulation of	data is known as:								
	(A) Summarizing	(B) Classifying	(C)	Sorting	(D)	Calculations				
2.	An attribute is also known	as:								
	(A) Field	(B) Table	(C)	Row	(D)	Relation				
3.	In ERD Model, the relationship between two entities is represented by a:									
	(A) rectangular box	(B) oval symbol		diamond symbol	(D)	line				
4.	Every relation must have a	a:								
	(A) candidate key	(B) primary key	(C)	secondary key	(D)	alternate key				
	Which of the following object of database is used to retrieve data from database?									
	(A) Queries	(B) Forms	(C)	Reports	(D)	Tables				
6.	. A referential integrity constraint is a rule that maintains consistency among the:									
•	(A) columns of two tables			two columns of same	tabl	e				
	(C) rows of two table		(D)	attribute of two tables	S					
C-Language										
7	Every statement in a C pr	ogram terminates with:								
• •	(A) Colon	(B) Semicolon	(C)	Delimiters	(D)	comma				
8.	Preprocessor directives a	re commands for:								
	(A) Microprocessor		(B)	Language processo	r					
	(C) Loader		(D)	C preprocessor						
9.		erators has lowest precedent	:e: (C)	==	(D)	+				
10	(A) = The logical not operator,d		(-)							
10.	(A) Uniary operator	(B) Ternary operator	(C)	Binary operator	(D)	Bitwise operator				
11.	The escape sequence for	Tab is:			<b>(D)</b>					
	(A) \ f	(B) \ n	(C)	\ r	(D)	\ T				
12.	The format specifier %f is		(0)	Dauble	(D)	Eloot				
	(A) Character	(B) Integer	(C)		(ロ)	Float				
13.	A compound statement re	fers to a group of statements	enci	osea m. r 1	(D)	**				
	(A) ()	(B) {}	(0)		(5)					
14.	A loop inside the body of		(C)	nested loop	(D)	infinite loop				
	(A) For loop	(B) while loop	` '	, iootoa ioop	(-)					
15.	(A) source files	(B) header files	(C)	object files	(D)	image files				

Roll No.

To be filled in by the candidate

# (For all sessions)

# Computer Science (Essay Type)

Marks: 60 Time: 2:10 Hours (MS-ACCESS) Section-I  $2 \times 6 = 12$ 2. Write short answers of any six parts from the following. ii. What do you mean by primary key? i. List two properties of relation. iv. What is cardinality? iii. Define data modeling. vi. What are reports? v. How is MS-ACCESS loaded? viii. Write uses of query. vii. What is Join?Write its purpose. ix. Write two advantages of using a microsoft ACCESS IDE. (C-Language) 3. Write short answers of any six parts from the following.  $2 \times 6 = 12$ ii. Describe header file. i. Why is C known as strongly typed language? iv. Give any four examples of valid variable names. iii. Write shortcut key to run a C-program. vi. What is high level language? v. Differentiate between constant and variable. viii. Find errors in the following code vii. Determine the output of the following code int P=20 segment: if( $P \ge 5$ ) int m=0, n=5; printf("OK"); if(m%n>1) printf("success"); else printf("Failure"); ix. Write an expression in C-language for the given statement: age is from 18 to 25.  $2 \times 6 = 12$ 4. Write short answers of any six parts from the following. ii. Define the term stream in context of file handling. i. Write the syntax of printf and scanf functions. iv. Find the errors in the following code segment. iii. What is meant by character input in a = 10;C-programming language? Avg=0; While(a<=10); Avg+=avi. Determine the output of the following code segment. v. Trace the output of the following piece of code. int j=5; for(int x=1;x<=10;x=x+4) While(j <= 15) printf("%d\n",x); printf("Pakistan\n") j=j+2; viii. What is meant by scope of variable? vii. Write down any two benefits of functions. ix. Enlist escape sequences used for different purposes. 8x1=8(MS-ACCESS) Section -II Note: Attempt only one question from the following. 08 5. Write four major components of database system. 6. Define functional dependency. How do partial dependencies affect a relation? 80 Section -III 8x2 = 16(C-language) Note: Attempt any two question from the following. 7. Define programming language. Discuss two main types of programming languages. 80 8. What is control structure?Briefly describe basic control structures of C program. 80 9. Write a program that prints odd numbers between(1 to 100) using for loop. 80 638-12-A----