(Academic Sessions 2020 – 2022 to 2022-2024)

COMPUTER SCIENCE   224-1st Annual-(INTER PART – II)   Time Allowed : 20 Minutes

Q. PAPER – II (Objective Type)   GROUP – I   Maximum Marks : 15

PAPER CODE = 8833   LHR-1-24

Note : Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

(MS –ACCESS)

1-1	An example of a wildcard character is :
	(A) & (B) # (C) * (D) "
2	A functional dependency is a relationship between two :
	(A) Attributes (B) Entities (C) Rows (D) Relations
3	A row of a relation is also called :
	(A) Attribute (B) Entity (C) Tuple (D) Field
4	All the hardware costs are considered during :
	(A) Project planning (B) Requirement analysis
	(C) Data analysis (D) Feasibility study
5	The most commonly used database model in current database development is :
	(A) Hierarchical (B) Network (C) Object-oriented (D) Relational
6	Each set of related items in a table is called :
	(A) Form (B) Record (C) Field (D) Query

C-Language OR   Visual Basic

(C-Language)

7	Format specifier % 4.2 f for value .78962, will produce output :
	(A) 0.78 (B) □□.78 (C) □□□.78 (D) 0.7896
8	In which loop, statement terminator is part of its syntax :
	(A) for (B) do-while (C) while (D) nested loop
9	If $x = 2$ and $y = 3$, what will the output of the following expression :
	$x < y ? x : y ;$
	(A) 2 (B) 3 (C) 4 (D) 5
10	Another name for built-in function is :
	(A) User-defined function (B) Library function
	(C) Custom made function (D) Customized function
11	The total number of keywords in C is :
	(A) 32 (B) 34 (C) 36 (D) 38
12	The following function is used to copy a string to an array of characters :
	(A) Strcpy (B) Strpcy (C) Strncpy (D) Copy
13	Following format specifier used for string :
	(A) % f (B) % c (C) % d (D) % s
14	Another term for a computer making a decision is :
	(A) Sequence (B) Selection (C) Repetition (D) Iteration
15	The process of identifying and removing errors in program is called :
	(A) Debugging (B) Fixing (C) Updating (D) Modifying

OR

(Turn Over)

(Visual Basic)

1. 7	Statement that initializes and loads a form in memory without displaying it on screen :	
	(A) Load (B) Unload (C) Hide (D) Remove	
8	In Visual Basic, which keyword indicates the starting point of a decision structure :	
	(A) then (B) if (C) start (D) else	
9	The MOD operator is used for :	
	(A) Integer remainder (B) Exponentiation (C) Multiplication (D) Division	
10	Which structure is an example of multiple branches from single expression :	
	(A) If --- Then (B) Select Case	
	(C) For --- Next (D) If --- Then --- Else	
11	All of the following are examples of control except :	
	(A) Property (B) Label (C) Text box (D) Button	
12	If number of iterations are not known in advance, the suitable programming structure is :	
	(A) For --- Next (B) Do --- Loop Until	
	(C) For --- Each Next (D) For --- While	
13	In Visual Basic, a form is another name for a (n) :	
	(A) Object (B) Property (C) Label (D) Window	
14	How many bytes are occupied by long data type in Visual Basic :	
	(A) 4 (B) 8 (C) 12 (D) 16	
15	The rectangle symbol in a flow chart indicates :	
	(A) Process (B) Condition (C) Input (D) Output	

COMPUTER SCIENCE   224 –1ˢᵗ Annual-(INTER PART – II)   Time Allowed : 2.10 hours

PAPER – II (Essay Type)   **GROUP – I**   Maximum Marks : 60

SECTION – I   LHR-1-24

(MS-ACCESS)

2. Write short answers to any SIX (6) questions :   12

(i) Define file or dataset.   (ii) Discuss the role of fixed length field.

(iii) What are the responsibilities of DBA?   (iv) Briefly describe one-to-one relationship.

(v) Define hybrid data distribution strategy.   (vi) What are the anomalies?

(vii) Enlist four different layouts of form.   (viii) Define design view.

(ix) Briefly describe the role of queries in MS-Access.

C-Language

3. Write short answers to any SIX (6) questions :   12

(i) Define keyword with example.   (ii) What is control string in printf function?

(iii) Write following statement in C Language code:
Speed not greater than 60.

(iv) Predict the output of the following code :
int m = 15 , n = 4;
printf (" %d   %d " , m %on , n% m);

(v) Write errors in the following code :
Float avg;
printf ("Enter a number : ");
scanf ("% f ", avg);

(vi) Find errors in the following code :
Void main ( );
{
float n₁ = 4.5 , n₂ = 7.2
printf (" % f /t % f ", n₁ , n₂)
}

(vii) Write name of any four file opening modes.   (viii) Define stream.

(ix) Predict output of the following code :
printf (" Hello \n Pakistan \n ");
printf (" 123 \t Over ! ");

OR

(Visual Basic)

3. Write short answers to any SIX (6) questions :   12

(i) Why Visual Basic is called event-driven language?   (ii) Write the operating modes of VB?

(iii) What is project explorer window?   (iv) What is meant by object methods?

(v) How can be changed the focus of a control?   (vi) Enlist four form events.

(vii) How would you define predefined properties values?   (viii) How are properties assigned at Runtime?

(ix) Differentiate string properties values and Boolean values.

C-Language

4. Write short answers to any SIX (6) questions :   12

(i) Write the syntax of nested if statement.   (ii) Differentiate for ( ) loop and while ( ) loop.

(iii) Predict the output of the following
code segment and draw a flow chart :
char g = 'M';
if (g = = 'M')
printf (" Male");
else
printf (" Female ");

(iv) Convert the following while ( ) loop into
for ( ) loop :
int i = 5;
while (i < = 10)
{
printf (" % d \n ", i);
}

(v) Predict the output of the following code segment :
int x = 1;
while (x + + < = 5)
printf (" %d \ n ", x);

(vi) Write two important points to use functions in C-language program.

(vii) What are two types of function arguments?

(viii) Differentiate scope of a local and global variable.

(ix) What is the purpose of void used in the following function declaration;
void counter (void) ;

OR

(Turn Over)

(Visual Basic)

4. **Write short answers to any SIX (6) questions :** **12**

(i) What is the purpose of 'val' function?

(ii) Why it is important to declare a variable before you use it?

(iii) Write the purpose of input box and text box.

(iv) Define the control structure.

(v) Differentiae do-until-loop and do-while-loop.

(vi) Write the syntax of do-until-loop.

(vii) What is sentinel value in conditional loop?

(viii) Differentiate pre-test and post-test loop.

(ix) Give output of the following code segment :

```
sum = 0
while i < = 5
print i
sum = sum + i
i = i + 1
WEND
```

SECTION – II

(MS ACCESS)

Note : **Attempt any ONE question.**

5. What is normalization? Explain first normal form. **8**

6. Explain any four data types available in MS-Access. **8**

SECTION – III

Note : Attempt any TWO descriptive answers (either from " C-Language" or from " Visual Basic") of the following questions.

(C – Language)

7. Briefly describe characteristics of high level programming language. **8**

8. Write a program in C-language that inputs a character and displays whether it is vowel or consonant. **8**

9. Write a program that produces the following output using loop : **8**

Number	Square Root
0	0.00
1	1.00
2	1.41
3	1.73
4	2.00
5	2.24

OR

(Visual Basic)

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