

COMPUTER SCIENCE	Intermediate Part-II (12th) (1st A 425)	Paper: II	First Group
Time: 2:10 Hours	SUBJECTIVE		Marks: 60

Note: Section-I is compulsory.

SECTION – I

MS-ACCESS

- 2. Write short answers to any SIX (6) questions. (2x6 = 12)**
- Define Information.
 - Why is it important to specify data type and size of a field?
 - How does the sequential file organization store files?
 - How is data handled in file management system?
 - Define foreign Key.
 - What do you mean by data integrity?
 - Define Normalization.
 - Write down any three advantages of form.
 - What is the use of reports?

C-LANGUAGE

- 3. Write short answers to any SIX (6) questions. (2x6 = 12)**
- Enlist the steps to develop a C program.
 - Differentiate between source code and object code.
 - Why main function is part of every program developed in C?
 - Illustrate the difference between format specifiers and field width specifiers with example.
 - Define the term 'Escape Sequence'.
 - Determine the output of the following code segment:

```
int x = 1, y = 2, z = 3;
x = x + y;
y = y + z;
z = x + z;
printf("Ans=%d%d%d",x,y,z);
```
 - Find errors in the following code segment:

```
#include<stdio.h>
Vlod main()
{
    printf("%d Karachi");
}
```
 - Write down at least four file opening modes along with their purpose.
 - Define string.

OR

VISUAL BASIC

- 3. Write short answers to any SIX (6) questions. (2x6 = 12)**
- Differentiate between source code and machine code.
 - How event driven programming works?
 - What is use of assignment operator?
 - List and explain the file modes for data files.
 - What are differences between a random file and sequential file?
 - Explain the term concatenation.
 - What is difference between + and f ?
 - What is purpose of Val function?
 - Where we use implicit declaration?

C-LANGUAGE

- 4. Write short answers to any SIX (6) questions. (2x6 = 12)**
- Why control structures are used in programs?
 - Draw flow chart of if-else statement.
 - Trace errors in the following code:

```
int pass = 40;
if (pass <>40)
    pass=0;
Else
    pass+= 10;
```
 - Write down three types of loops in C.
 - Trace the errors in the following code:

```
int c = 1;
Do
{
    Printf("%d \t",c)
    c++;
}
While (c<=3)
```
 - Predict the output of the following code:

```
for (int x = 1 ; x <= 5 ; x++)
{
    printf("Hello! \n");
    break;
    printf("Pakistan");
}
```
 - Write down two benefits of functions.
 - What is meant by scope of variable?
 - Write down the use of formal parameters.

OR

VISUAL BASIC

- 4. Write short answers to any SIX (6) questions. (2x6 = 12)**
- Why control structures are used in programs?
 - Draw flow chart of if...then...Else structure.
 - What is the purpose of Val function in VB?
 - Enlist types of loops in VB?
 - Trace error in the following statement:
Dim Name As String
 - Write the usage of InputBox in VB.
 - Write down two benefits of functions.
 - What is meant by scope of variable?
 - Write down the use of formal parameters.

(Turn Over)

- 2 -

SECTION – II

MS-ACCESS

Note: Attempt any ONE question.

- 5 - Describe different steps involved in analysis stage while designing a database. (8)**
- 6 - Discuss different options for editing forms in MS-Access. (8)**

SECTION – III

C-LANGUAGE

Note: Attempt any TWO questions (either from "C-Language" or from "Visual Basic"):

- 7 - What are logical operators? Discuss different logical operators in C-Language. (8)**
- 8 - Write down a program that inputs a character from the user and checks whether it is a vowel or a consonant using logical operators. (8)**
- 9 - Write down a program using 'for' loop that produces the following output: (8)**

```

1
1      2
1      2      3
1      2      3      4
1      2      3      4      5
```

OR

VISUAL BASIC

- 7 - What are logical operators? Discuss different logical operators in Visual Basic Language. (8)**
- 8 - Write a program that inputs a character from the user and checks whether it is a vowel or a consonant using logical operators. (8)**
- 9 - Write a code in VB that produces the following output: (8)**

```

1
1      2
1      2      3
1      2      3      4
1      2      3      4      5
```

Roll No. of Candidate : _____

COMPUTER SCIENCE		Intermediate Part- II (12th) (1st A 425-I)		Paper: II	Second Group
Time: 20 Minutes		OBJECTIVE Code: 8832		Marks: 15	
Q. No.	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 the relevant question number. Use marker or pen to fill in the circles. Cutting or filling of two or more circles will result zero mark in that question.				
1					
S. #	Questions	A	B	C	D

MS ACCESS

1	An attribute is also known as	Record	Row	Field	Relation
2	Anything about which we collect and maintain information in the database is called	Entity	Attribute	Record	Field
3	A relationship between country and capital is an example of _____ relationship.	One-to-one	One-to-many	Many-to-many	Many-to-one
4	In 2NF, which form of dependency is removed?	Transitive	Functional	Non-functional	Partial
5	Which object is used to retrieve data from database and present in formatted way?	Table	Form	Query	Report
6	Field properties in MS Access are shown in	Design view	Data sheet view	Both A and B	Table view

C-LANGUAGE

7	The process of converting source code into object code is known as	Compilation	Linking	Loading	Executing
8	The name of header file is written between	[]	()	< >	<< >>
9	Which symbol is used for logical AND operator?	!		&&	#
10	The function getch() is defined in	stdio.h	string.h	math.h	conio.h
11	Which is an optional part in switch structure?	Case	Break	Default	Switch
12	In which loop, test condition comes after the body of loop?	for	while	do while	Infinite loop
13	This statement may be used inside the loop body to stop the current iteration of loop and begin next one	continue	break	switch	next
14	The statement that activates a function is called	Function definition	Function prototype	Function call	Function return
15	In _____ file opening mode, data can only be read from an existing file.	w	w+	r+	r

OR
VISUAL BASIC

7	The process of converting source code into object code is known as	Compilation	Linking	Loading	Execution
8	Which one statement is used to declare variables in V.B?	Declare	Define	Dim	Identifier
9	A window that shows the position of form on screen when program will be executed is	Form window	Code window	Form layout window	Project explorer
10	The shortcut key to run a project in Visual Basic is	Ctrl + R	Ctrl + S	F2	F5
11	The keyword that marks the end of do structure	Do – Exit	Exit Do	Loop	End Do
12	To trigger the timer event once every second, set the interval property to	10	100	1000	10000
13	The number of bytes used by integer data type in V.B is	2	8	12	16
14	Which control is used in V.B to display text or accept user input?	Label	Button	Textbox	Frame
15	Which property of list box is used to return the number of items in a list box?	Index	Count	ListIndex	ListCount

COMPUTER SCIENCE	Intermediate Part- II (12th) (1st A 425)	Paper: II	Second Group
Time: 2:10 Hours	SUBJECTIVE		Marks: 60

Note: Section-I is compulsory.

SECTION – I
MS-ACCESS

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

- Define program file.
- How are the records stored in direct or random file organization?
- Differentiate between database and DBMS.
- Who is the data administrator?

- Define key.
- What is referential integrity?
- What is transitive dependency?
- Write down any two advantages of reports.
- Differentiate between fields and records.

(2x6 = 12)

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

- What is assembly language?
- How does a compiler work?
- Distinguish between source code and object code.
- Define getch() function.
- Write down any four format specifiers.
- Predict the output of the following code segment:

```
int x, y, z;
x=4, y = 2;
z = 5;
printf("%d%d%d", x+y, y+5, x+z);
```

- Find the errors from the following code:

```
void main ()
{
    char ch, ch2;
    ch1 = 2;
    ch2 = 6
}
```
- Write the fopen() with required parameter to open a file for reading.
- What is newline marker?

(2x6 = 12)

C-LANGUAGE

OR

VISUAL BASIC

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

- What is assembly language?
- How does a compiler work?
- Distinguish between source code and object code.
- Define Dbclick.
- Distinguish between constant and variable.

- Write down the uses of operator precedence.
- Describe mathematical expression.
- How sequential file is created?
- Write down and explain the file modes for data file.

(2x6 = 12)

C-LANGUAGE

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

- What is selection structure?
- Write the purpose and syntax of nested if() in C-language.
- Find errors in the code:

```
int x = 10;
IF (x NOT = 10)
    printf("congratulation");
else
    printf("%d", y);
```
- Convert the following into for() loop:

```
int x = 1;
do{
    printf("%d", x++);
}while(x<=5);
```

- Find errors in the following code:

```
int x = 3;
while (x = 1; x <= 5){
    printf("x=%d", x)
}
```
- Differentiate between pre-test and post-test loop.
- Write down the scope and life of local variable.
- What is function prototype?
- Differentiate between user defined and builtin function.

(2x6 = 12)

OR

VISUAL BASIC

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

- What is the role of variant data type?
- What do you mean by variable initialization?
- How literal constants are different from symbolic constants?
- What is list box control?
- Differentiate between check box and radio button.
- What is keyword in V.B?
- What is the use of timer control?

- Predict the output:

```
DIM x as integer = 5
while(x <= 10)
    print "x=";x
wend
```
- What is the use of option explicit?

(2x6 = 12)

SECTION – II
MS-ACCESS

Note: Attempt any ONE question.

- Explain different components of logical model in detail.
- Define Query? Explain any four types of Queries.

(8)

(8)

(Turn Over)

- 2 -

SECTION – III
C-LANGUAGE

Note: Attempt any TWO questions (either from "C-Language" or from "Visual Basic"):

- Explain various data types available in C-language.
- Write a program that inputs a character from user and check whether it is a vowel or consonant.
- Write a program that displays the series: -5 -3 -1 1 3 5 by using for loop.

(8)

(8)

(8)

OR

VISUAL BASIC

- Explain various data types available in VB.
- Write a program that inputs character from user and check whether it is a vowel or consonant.
- Write a program that displays the series: -5 -3 -1 1 3 5 by using for loop.

(8)

(8)

(8)

322-1st A 425-24500