

Cvj-12-18

Computer Science (New Scheme)

(INTER PART-II) 418 - (I)

Paper II

Time: 20 Minutes

OBJECTIVE

Marks: 77

Code: 8831

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. Attempt as many questions as given in objective type area of paper and leave others blank.

MS-ACCESS AND C-LANGUAGE

1. Multiple copies of the same data is referred to as:
(A) data integrity (B) data inconsistency (C) data redundancy (D) data isolation
2. A primary key that consists of two or more attributes of a relation is called:
(A) sort key (B) candidate key (C) sub key (D) composite key
3. In E-R diagram, rectangle is used to represent:
(A) entity (B) attribute (C) primary key (D) relationship
4. In 2 NF, which form of dependency is removed:
(A) transitive dependency (B) partial dependency
(C) associative dependency (D) consistency dependency
5. The example of popular DBMS is:
(A) MS-Word (B) MS-Access (C) MS-Excel (D) MS-Power Point
6. The maximum length of text type field in MS-Access is:
(A) 50 characters (B) 250 characters (C) 155 characters (D) 255 characters
7. The extension of header file is:
(A) .c (B) .txt (C) .h (D) .h
8. In C, the maximum length of variable name is:
(A) 25 characters (B) 255 characters (C) 31 characters (D) 55 characters
9. Which function is used to display output on screen in C-Language?
(A) scanf() (B) printf() (C) gets() (D) print
10. Which statement is used for making two way decision?
(A) if (B) nested-if (C) while (D) if-else
11. Which of the following is not logical operator:
(A) && (B) || (C) ! (D) >=
12. How many types of loop structure are in C-Language?
(A) 5 (B) 4 (C) 2 (D) 3
13. What will be the value of x after executing the following code?
for(x=1; x<=7; x++);
printf("%d",x);
(A) 5 (B) 7 (C) 8 (D) 1
14. A function does not return any value has return type:
(A) nothing (B) float (C) void (D) int
15. Which mode opens only an existing file for both reading and writing?
(A) "r+" (B) "w" (C) "w+" (D) "a"

(TURN OVER)

OR
MS-ACCESS AND VISUAL BASIC
Code: 8832

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7. The icons on toolbox represents
(A) property (B) program load (C) label (D) V.B. controls
8. All are examples of controls except:
(A) label (B) text box (C) property (D) list box
9. Visual Basic has a(n):
(A) Assembler (B) Interpreter (C) Linker (D) Compiler
10. Forms & controls are collectively called:
(A) properties (B) methods (C) events (D) objects
11. To exit the window of Visual Basic press the following:
(A) Alt+F6 (B) Ctrl+F9 (C) Alt+F9 (D) Alt+F4
12. The naming pre-fix for label control is:
(A) lbe (B) lab (C) lbl (D) lbl
13. Which control is used to choose one item from the pre-defined list?
(A) text box (B) check box (C) list box (D) radio
14. The expression $20/3$ gives:
(A) 2 (B) 6.333 (C) 6 (D) 60
15. How many times the following loop will execute?
 for j=10 to 1 step-2
 Next
(A) 5 times (B) 10 times (C) 6 times (D) 4 times

Cuj-12-18

Computer Science (New Scheme)

(INTER PART-II) 418

Paper II

Time: 2:10 Hours

SUBJECTIVE

Marks: 60

Note: Section I is compulsory.

(SECTION – I)

2. Write short answers to any SIX questions:

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MS-ACCESS

- i. What is the use of DML?
- ii. List three examples of database systems.
- iii. Define primary key.
- iv. What is a relationship?
- v. What is a repeating group?
- vi. What is a functional dependency?
- vii. List three methods to create table in MS-Access.
- viii. Write the use of data sheet form.
- ix. Differentiate between form and report.

3. Write short answers to any SIX questions:

12

C-Language

- i. Write shortcut key to compile and run C-program.
- ii. What is the use of define preprocessor?
- iii. Define delimiters.
- iv. Why C is known as strongly typed language?
- v. How does cancellation error occur?
- vi. Write output of the following code:

```
int x = 5;
printf(“%d %d”, 2 * x , 3 * x);
```
- vii. Name any four format specifiers provided by C.
- viii. Write output of the following code:

```
int a, b, c;
a = 15;
b = 10;
c = a + b;
printf(“c = %d”, ++c);
```
- ix. Find errors from the following code:

```
#include <stdio.h>
void main ( )
{
int x = 10, y = 15;
x = ++y;
y = x + 1;
printf(“%d %d”, x, y);
}
```

(Turn Over)

OR
VISUAL BASIC

3. Write short answers to any SIX questions:

- i. What is project window?
- ii. Differentiate between project file and form file.
- iii. State the purpose of name property of a control.
- iv. Define focus.
- v. Write the use of KeyUp and KeyDown events.
- vi. Show output of following code:

```
Dim x As Integer
Dim y As Integer
Dim z As Integer
x = 11
y = 23
z = x
x = y
y = z
Print "x=" & x
Print "y=" & x
```

- vii. Explain the use of option explicit statement in Visual Basic.
- viii. Find errors in the following code:

```
Dimm A As Integer
Dim B As Integer
A = 2 * 10
B = 3 * 5
Print A Mod B;
```

- ix. Write output of the following code:

```
Const Length As Double = 12
Const Width As Double = 4
Dim Perimeter As Double
Perimeter = 2 * Length + 2 * Width
Print "The Perimeter of the rectangle is" & Perimeter
```

4. Write short answers to any SIX questions:

- i. When you must use curly braces { } with selection structure.
- ii. Show output

```
int n = 1, m = 2;
if(n == m)
    printf("%d", n);
else
{
    if(n == m-1)
        printf("%d %d", n, m);
}
```

- iii. Trace errors in the following code:

```
int n = 7;
if(n > 4 && < 10)
    printf(n is valid);
Else
    printf("n is invalid");
```

- iv. Define infinite loop.

C-Language

- v. What is the output of following code.

```
int n = 1;
while(n <= 10)
{
    if(n % 2 == 1)
        printf("%d", n);
    n++;
}
```

- vi. Convert the following code into "for" loop.

```
int i = 1;
while (i <= 10)
{
    printf("%d", i);
    i = i + 2;
}
```

- vii. Write the syntax for function declaration.
- viii. What is function definition?
- ix. What is the use of fopen() function?

OR
VISUAL BASIC

4. Write short answers to any SIX questions:

i. What is the use of Val function?

ii. What is a relational expression?

iii. Find output of following code:

```

Dim n, m As Integer
n = 1
m = 2
If n = m Then
    Print n
Else
If n = m - 1 Then
    Print n
    Print m
End If
End If

```

iv. What is nested loop in Visual Basic?

v. Define Do-While loop in Visual Basic.

vi. What is the output of following code?

```

Dim n As Integer
n = 1
While n <= 20
    If n mod 3 = 0 Then
        Print n
    End If
Wend

```

vii. Predict the output of following code:

```

Dim n, m as Integer
m = 10
n = m + 2
m = n + m
Print m

```

viii. Find errors in the following code:

```

Dim x as int;
If x < 3 Then
    Print x
End

```

ix. Explain the difference between Do-While and For-Next loop.

(SECTION - II)
MS-ACCESS

Note: Attempt any ONE question.

5. What is data modeling? What are the ingredients of data modeling? 8

6. Discuss different types of forms in MS-Access. 8

(SECTION - III)

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

C - LANGUAGE

7. Write any eight rules for naming variables in C-language. 8

8. Write a program that inputs a week day number and prints the name of day on screen using switch..case structure. 8

9. What is do-while loop? Explain its working with example. 8

OR

VISUAL BASIC

7. Discuss implicit and explicit declaration of variables in Visual Basic. 8

8. Write a code in Visual Basic that inputs a week day number and displays the name of the day in a message box using Select...Case structure. 8

9. What is Do-While loop? Explain its working with examples. 8