

Reg. No. : .....

Code No. 2052

Name : .....

**SECOND YEAR  
SAY/IMPROVEMENT  
JUNE 2018**

Time : 2 Hours  
Cool-off time : 15 Minutes

Part - III

**COMPUTER APPLICATION  
(COMMERCE)**

Maximum : 60 Scores

**General Instructions to Candidates :**

- There is a 'Cool-off time' of 15 minutes in addition to the writing time.
- Use the 'Cool-off time' to get familiar with questions and to plan your answers.
- Read questions carefully before answering.
- Read the instructions carefully.
- Calculations, figures and graphs should be shown in the answer sheet itself.
- Malayalam version of the questions is also provided.
- Give equations wherever necessary.
- Electronic devices except non-programmable calculators are not allowed in the Examination Hall.

**വിദ്യാർത്ഥികൾക്കുള്ള പൊതുനിർദ്ദേശങ്ങൾ :**

- നിർദ്ദിഷ്ട സമയത്തിന് പുറമെ 15 മിനിറ്റ് 'കൂൾ ഓഫ് ടൈം' ഉണ്ടായിരിക്കും.
- 'കൂൾ ഓഫ് ടൈം' ചോദ്യങ്ങൾ പരിചയപ്പെടാനും ഉത്തരങ്ങൾ ആസൂത്രണം ചെയ്യാനും ഉപയോഗിക്കുക.
- ഉത്തരങ്ങൾ എഴുതുന്നതിന് മുമ്പ് ചോദ്യങ്ങൾ ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- നിർദ്ദേശങ്ങൾ മുഴുവനും ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- കണക്ക് കൂട്ടലുകൾ, ചിത്രങ്ങൾ, ഗ്രാഫുകൾ, എന്നിവ ഉത്തരപേപ്പറിൽ തന്നെ ഉണ്ടായിരിക്കണം.
- ചോദ്യങ്ങൾ മലയാളത്തിലും നല്കിയിട്ടുണ്ട്.
- ആവശ്യമുള്ള സ്ഥലത്ത് സമവാക്യങ്ങൾ കൊടുക്കണം.
- പ്രോഗ്രാമുകൾ ചെയ്യാനാകാത്ത കാൽക്കുലേറ്ററുകൾ ഒഴികെയുള്ള ഒരു ഇലക്ട്രോണിക് ഉപകരണവും പരീക്ഷാഹാളിൽ ഉപയോഗിക്കുവാൻ പാടില്ല.

### PART - A

Answer all the questions from 1 to 5. Each question carries 1 score. (5 × 1 = 5)

1. Write the name of built-in function of C++ to convert given character into its lower case.
2. Which is the tag used to create a line break in a HTML page ?
3. A candidate key that is not a primary key is called \_\_\_\_\_ key.
4. Which is the keyword used in SQL SELECT command to eliminate duplicate values in the selection ?
5. Expand the term CDMA.

### PART - B

Answer any 9 questions from 6 to 16. Each question carries 2 scores. (9 × 2 = 18)

6. Write the function prototype for the following function :
  - (i) A function sum( ) takes two integer arguments and return integer value.
  - (ii) A function print( ) has no arguments and no return value.
7. Differentiate actual arguments and formal arguments in C++.
8. Write the output of the following HTML code :

```
<OL Type = "1" Start = "10">  
<LI> keyboard </LI>  
<LI> mouse </LI>  
<LI> light pen </LI>
```
9. Describe any four values of Type attributes of the <INPUT> Tag in HTML.
10. Write short note on virtual private server.

11. Define primary key and alternate key.
12. Write short note on UNION operation in Relational algebra.
13. Differentiate the data type CHAR and VARCHAR in SQL.
14. Write short note on Supply Chain Management.
15. Write a short note on mobile operating system.
16. Define the following term :
  - (i) SIM
  - (ii) MMS

### PART - C

Answer any 9 questions from 17 to 27. Each question carries 3 scores. (9 × 3 = 27)

17. Rewrite the following C++ code using if...else statement :

```
switch(choice)
{
    case 1:
        cout<<"One";
        break;
    case 0:
        cout<<"Zero";
        break;
    default:
        cout<<"End"
        break;
}
```

18. Write the output of the following C++ code. Justify your answer.

```
for(i=1; K=5; ++i)
{
    cout<<"\t"<<i;
    if(i==3)
        break;
}
```

19. Consider the following C++ code :

(a) `char name[20];`

`cin>>name;`

`cout<<name;`

(b) `char name[20];`

`gets(name);`

`cout<<name;`

Write the output in both cases if the string entered value is "NEW DELHI". Justify your answer.



20. Define array traversal with an example.

21. Consider the following function definition in C++ :

```
void sum(int a, int b=10, int c=20)
{
    int sum = a*b+c;
    cout<<sum;
}
```

Write the output of the above code for the following function call :

(a) `sum(1,2,3);`

(b) `sum(2,3);`

(c) `sum(3);`

22. Compare client-side scripting and server-side scripting.

23. Write the HTML code to generate the following table :

Roll No	Name	Class
100	Vishnu	C1
101	Anupama	C2
102	Biju	A1

24. Classify the following values in JavaScript into suitable data type :

"Hello", False, 125.0, 148, "True", True

25. What is Content Management System ? Write any two popular CMS software.

26. Define the following terms :

(i) Cardinality

(ii) Schema

(iii) Tuple

27. Explain any three benefits of ERP system.

#### PART - D

Answer any 2 questions from 28 to 30. Each question carries 5 scores. (2 × 5 = 10)

28. Consider the following HTML code and answer the following :

```
<EM> COMPUTER </EM> <BR>
```

```
<STRONG> APPLICATION </STRONG> <BR>
```

```
<HR>
```

(a) Name the tag used to make the text as italics and bold in the above code. (1)

(b) What is the purpose of <HR> tag ? Explain its any two attributes. (2)

(c) Write the HTML statement to scroll the text given in <EM> from top to bottom. (2)

29. Consider the following JavaScript code :

```
function print()  
{  
  var i,  
  for (i=1; i<=10; ++i)  
    {  
      document.write(i);  
      document.write("<BR>");  
    }  
}
```

- (i) Write the output of the above code. (1)
- (ii) Rewrite the above code using while loop. (2)
- (iii) Modify the above code to find the sum of first 10 counting numbers. (2)

30. Define constrain. Explain any four column constrains.

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