

Reg No.
Name :

SECOND YEAR HIGHER SECONDARY EXAMINATION, MARCH 2020

Part – III

Time : 2 Hours

COMPUTER APPLICATION

Cool-off time : 15 Minutes

(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 നൽകിയിട്ടുണ്ട്.
- ആവശ്യമുള്ള സ്ഥലത്ത് സമവാക്യങ്ങൾ കൊടുക്കണം.
- പ്രോഗ്രാമുകൾ ചെയ്യാനാകാത്ത കാൽക്കുലേറ്ററുകൾ ഒഴികെയുള്ള ഒരു ഇലക്ട്രോണിക് ഉപകരണവും പരീക്ഷാഹാളിൽ ഉപയോഗിക്കുവാൻ പാടില്ല.

Answer any 5 questions from 1 to 6. Each carries 1 Score.

(5 × 1 = 5)

1. Accessing each element of an array at least once to perform any operation is known as _____.
2. Variables used in the function definition is known as _____.
3. Which among the following is an empty tag ?
 - (a) <TABLE>
 - (b) <FRAMESET>
 - (c) <FRAME>
 - (d) <FORM>
4. Name the type of database user who interact with the database through the pre-written application program.
5. Which DML Command is used to retrieve information from specified column in a table ?
6. Write the full form of MIS.

PART - B

Answer any 9 questions from 7 to 18. Each carries 2 Scores.

(9 × 2 = 18)

7. What is token in C++ ?
8. Write the use of break statement in C++
9. Rewrite the following code using for loop.

```
sum = 0;
i = 0;
while (i<10)
{
    sum = sum + i;
    i = i + 1;
}
cout <<"sum = "<<sum;
```

10. Consider the following declaration

```
int arr[5] = {1, 5, 8, 3, 19};
```

- (a) Write the value of arr [3]
- (b) What will be the value of arr [4] – 5;

11. Write the difference between getchar() and put char()

12. Write the use of the following tags :

- (a)
- (b) <I>
- (c) <U>
- (d) <Q>

13. Write any two attributes of <TR> tag.

14. What is CMS ? Write the use of CMS.

15. Define the following :

- (a) Entity
- (b) Relation

16. Write any two Benefits of ERP System.

17. What is SCM ?

18. What is Infringement ?

Answer any 9 questions from 19 to 30. Each carries 3 Scores:

(9 × 3 = 27)

19. What is entry-controlled loop in C++ ? Write the Syntax of any one entry-controlled loop.
20. Write appropriate array declaration for the following :
 - (a) to store height of 10 students in a class
 - (b) to store name of your school
 - (c) to store age of 50 students
21. Write the service associated with the following software port number :

Port Number	Service
25	
80	
443	

22. Compare client side scripting and server side scripting.
23. Write HTML code to get the following output using ordered list

III. PRINTER
IV. MONITOR
V. PLOTTER

24. Write the names and use of three attributes of <FORM> tag.
25. Write the use of the following Built-in functions property in JavaScript :
 - (a) toUpperCase()
 - (b) length
 - (c) charAt()

- STUDENT MAP**
26. What is FTP client software ? Write an example for it.
 27. What is key in DBMS ? Write the difference between candidate key and foreign key.
 28. Briefly explain the three levels of data abstraction in DBMS.
 29. Write the name and use of any three column constraints in SQL.
 30. "There are cyber crimes against individuals, against property and against government." Briefly explain any three cyber crimes against individuals.

PART – D

Answer any 2 questions from 31 to 33. Each carries 5 Scores.

(2 × 5 = 10)

31. Consider the following code :

```
int add (int a, int b)
{
    int c;
    c = a + b;
    Return c;
}
int main ( )
{
    int x = 10, y = 25, z;
    z = add (x, y);
    cout << z;
    return 0;
}
```

- (a) Write formal arguments and actual arguments in the above code.
- (b) Write output of the above code.
- (c) Which type of function Call is used in the above code ? Explain.

32. Write the value of z in the following JavaScript Code.

- (a) `var x, y, z;`
`x = 15;`
`y = 6;`
`z = x % y;`
- (b) `var x, y, z;`
`x = "JavaScript";`
`y = "Programming",`
`z = p + q;`
- (c) `var x, y, z;`
`x = 25;`
`y = 5;`
`x /= y;`
`z = x + 6;`
- (d) `var x, z;`
`x = "JavaScript";`
`z = isNaN(x);`
- (e) `var x, z;`
`x = "JAVASCRIPT";`
`z = x.toLowerCase();`

33. Consider the table employee given below :

EMPID	EMPNAME	DESIGNATION	BASIC
1001	ARUN	CLERK	25000
1002	RAJU	SALESMAN	15000
1007	FATHIMA	MANAGER	40000
1010	JOHN	MANAGER	40000
1015	AJITH	SALESMAN	15000

Write SQL statements for the following :

- (a) Display the details of all employees.
- (b) Display the details of employees in ascending order of their basic pay
- (c) Display name and designation of employees whose name starts with the letter 'A'
- (d) Increase the basic pay of clerk by ₹ 3,000.
- (e) Display all employees except manager and clerk.