



**SECOND YEAR HIGHER SECONDARY
MODEL EXAMINATION, FEBRUARY - 2024**

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. Pick out the Jump statement from the following :
(while, continue, for, switch)
2. In C++, the last character in a string is _____.
3. Write an example for a Server side scripting language.
4. _____ operator is used in JavaScript to add two strings.
5. Write example for a DDL command in SQL.
6. _____ is an open source ERP package.
(Oracle, Odoo, SAP, Tally ERP)

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

(9 × 2 = 18)

7. Consider the following array declaration statement:

```
int a[4]={2,3,4,5};
```

Give the output of the following :

 - (a) `cout<<a[1];` (1)
 - (b) `cout<<a[2]+a[3];` (1)
8. What is the difference between built-in function and user defined function in C++ ?
9.
 - (a) Write full form of DNS. (1)
 - (b) What is the port number of HTTP ? (1)

10. Write the use of following tags :
- (a)
 (1)
 - (b) <U> (1)
11. Write the names of any two Lists in HTML.
12. Write the names of any two built-in functions in JavaScript.
13. What is CMS? Give one example for CMS.
14. (a) What is Responsive web design ? (1)
- (b) The companies that provide web hosting services are called _____ . (1)
15. Write any four components of DBMS environment.
16. Write the symbols for the following operations of Relational Algebra :
- (a) SELECT (½)
 - (b) PROJECT (½)
 - (c) UNION (½)
 - (d) INTERSECTION (½)
17. Write any two situations in which ALTER command is used in SQL.
18. Write short note on SMS.

Answer any 9 questions from 19 to 29. Each carries 3 scores.

(9 × 3 = 27)

19. (a) What is nested loop ? (1)
(b) Give one example of nested loop. (2)

20. Consider the following C++ code :

```
char name[20];
```

```
cin>>name;
```

```
cout<<name;
```

- (a) What will be the output if you input the string "Good morning" ? (1)
(b) Justify your answer. (2)
21. (a) Define modular programming. (1)
(b) Give any two advantages of modular programming. (2)

22. Write the use of following built-in functions in C++ :

- (a) isdigit() (1)
(b) abs() (1)
(c) strlen() (1)

23. Write the names of any two associated tags of <TABLE> tag. Write their use also.

24. Write the names of tags for the following :

- (a) To create a form. (1)
(b) To make Textbox in form. (1)
(c) To make a drop down list in form. (1)

25. Write three ways to add JavaScript code to a webpage.

26. (a) The keyword used in SELECT command to eliminate duplicate records is _____. (1)
- (b) Write the names of any two column constraints in SQL. (2)

27. Consider the table STUDENT given below :

Field	Type	Description
rollno	Integer	Primary key
name	String	20 characters
mark	Integer	Not null

Write SQL query for the following :

- (a) To create the above table STUDENT. (1)
- (b) To display all the details in table STUDENT. (1)
- (c) To display rollno and name of students having mark greater than 600. (1)
28. What is ERP ? Write any two related technologies of ERP.
29. Write a short note on mobile operating system. Also write an example for mobile operating system.

Answer any 2 questions from 30 to 32. Each carries 5 scores.

(2 × 5 = 10)

30. (a) Write an example for entry controlled loop. (1)
- (b) Write an example of ternary operator in C++. (1)
- (c) Write a C++ program to input three integer numbers and to display their sum. (3)
31. (a) Compare Static and Dynamic web pages. (3)
- (b) Write HTML code segment to display $x^3 + y^3$. (2)

32. (a) What is Data independence ?
- (b) Which are different levels of Data independence ?
- (c) Identify Primary key, Degree and Cardinality of the following table :

Regno	Name	Course	Marks	Result
101	Sachin	Science	480	Pass
102	Joseph	Commerce	375	Pass
103	Fathima	Science	350	Pass