# SECOND YEAR HIGHER SECONDARY MODEL EXAMINATION, FEBRUARY 2025
## Part – III
## COMPUTER APPLICATION (COMMERCE)
### Maximum : 60 Scores

Time : 2 Hours
Cool-off Time : 15 Minutes

*General Instructions to Candidates :*

- *There is a 'Cool off time' of 15 minutes in addition to the writing time.*
- *Use cool off time to set familier 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 മിനിട്ട് 'കൂൾ ഓഫ് ടൈം' ഉണ്ടായിരിക്കും.
- കൂൾ ഓഫ് ടൈം ചോദ്യങ്ങൾ പരിചയപ്പെടാനും ഉത്തരങ്ങൾ ആസൂത്രണം ചെയ്യാനും ഉപയോഗിക്കുക.
- ഉത്തരങ്ങൾ എഴുതുന്നതിന് മുമ്പ് ചോദ്യങ്ങൾ ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- നിർദ്ദേശങ്ങൾ 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.

## PART – I

**Answer any 5 questions from 1 to 6. Each carries 1 score.**                    (5×1=5)

1. Basic building blocks of C++ program are called _____.

2. Number, string and _____ are the datatypes in JavaScript.

3. Which of the following is not an example for content management system ?

   a) WordPress

   b) Drupal

   c) Joomla!

   d) Filezilla

4. The candidate key which is not a primary key is called _____

5. Name the keyword used with SELECT command to eliminate duplicate records.

6. Which among the following is an open source ERP package ?

   Oracle, Odoo, SAP, Tally ERP.

## PART – II

7. Given int M [ ] = {13, 20, 25};

   Give the output for

   a) cout << M [0]; (1)

   b) cout << M [1] + 2; (1)

8. List any 4 string functions in C++.

9. Compare empty tags and container tags with an example each.

10. Write any four attributes of < BODY > tag.

11. Write the name and use of any two associated tags of < TABLE > tag.

12. Write HTML statement to divide the browser window into two sections horizontally in the ratio 70:30.

13. Explain any two data types in JavaScript with example.

14. List the users of a database.

**15.** Based on the relations given, find the result of the following relational algebraic expressions :

**ARTS**

| Name | Class |
|---------|-------|
| Abhijith | H1 |
| Anu | S2 |

**SPORTS**

| Name | Class |
|--------|-------|
| Anu | S2 |
| Arshad | H2 |

   i) ARTS ∩ SPORTS. (1)

   ii) ARTS – SPORTS. (1)

**16.** List any four aggregate functions in SQL.

**17.** Expand DDL and DML. Give 2 example commands for both.

**18.** Write short note on SMS.

## PART – III

**Answer any 9 questions from 19 to 29. Each carries 3 scores.** (9×3=27)

**19.** Explain 3 jump statements in C++.

**20.** a) Define an Array. (1)

   b) What does the declaration int mark[100]; mean ? (2)

**21.** Define Modular programming. Write any two advantages of modular programming.

**22.** Identify the header files used in C++ for the following built-in functions :

    a) strlen()        b) getchar()        c) isdigit()

**23.** Differentiate between client side scripting and server side scripting.

**24.** Write and explain various Heading Tags.

**25.** Write the output of the following JavaScript built-in functions :

    a) x="JavaScript";                               **(1)**

       y=x.charAt(4);

       alert(y);

    b) isNaN("13")                                 **(1)**

    c) x="JavaScript";                               **(1)**

       n = x.length;

       alert(n);

**26.** List and explain the different types of web hosting methods.

**27.** Describe any three column constraints in SQL.

**28.** Expand ERP. Explain how it benefits an organisation.

**29.** Explain any three cyber crimes against individuals.

### PART – IV

**Answer any 2 questions from 30 to 32. Each carries 5 scores.**                    **(2×5=10)**

**30.** a) Which are the components of a looping statement ?                         **(2)**

    b) Identify different components of a loop in the following code :                **(2)**

```
a = 20; sum = 0;
do {
sum + = a;
a = a + 5;
}while (a <=40);
```

    c) What do you mean by exit controlled loop ?                         **(1)**

**31.** a) Explain different types of lists in HTML with appropriate tags.             **(3)**

    b) List any 4 values of type attribute of <INPUT> tag.                   **(2)**

**32.** a) Expand DBMS.                                                   **(1)**

    b) Explain components of DBMS.                                   **(4)**

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