



Class No. :

FY 46

Name :

**FIRST YEAR HIGHER SECONDARY SECOND TERMINAL
EXAMINATION, DECEMBER 2023**

**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 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 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.

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

(5×1=5)

1. Number of symbols used in a number system is called its _____
2. The fastest memory in a computer is _____
3. Pictorial representation of Algorithm is known as _____
4. Find valid identifier from the list.
int, area, 9B, register no.
5. Name the ternary operator in C++.
6. If no match is found, the statements in _____ block is executed in Switch statement.

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

(9×2=18)

7. If $11110010_2 = A_8 = B_{16}$. Find A and B.
8. Write any two methods of representing characters in computer memory.



Score

9. Classify the following into System software and Application software :
GIMP, Windows, Unix, Openoffice Writer
10. List the names of any four input devices.
11. Which are the two approaches in problem solving ?
12. Distinguish between Literals and Keywords in C++.
13. What is IDE ? Give one example.
14. What is L-value and R-value of a variable ?
15. What is meant by Unary operator ? Give one example.
16. Predict the output of the following.

```
int a=5, b;
```

```
b=a++;
```

```
cout<<a<<<"t";
```

```
cout<<b;
```



Score

17. What is the use of pre-processor directive statement ? Give one example for such statement.
18. Write the four parts of a loop.

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

19. Draw the functional units of a computer.
20. Compare RAM and ROM.
21. What is Operating System ? Mention its two functions.
22. Write short notes on :
- a) Coding (1)
 - b) Translation (1)
 - c) Debugging. (1)
23. What is token in C++ ? List any four tokens.
24. If $x = 5$ and $y = 3$ then write the output of the following operations : (3×1)
- a) $-x$
 - b) x/y
 - c) $x\%y$



Score

25. Explain cascading of input and output operators. Give one example for each.
26. Explain any three fundamental data types in C++.
27. Write a C++ program to find the area of a circle.
28. Read the following C++ code and answer the questions given below :

```
sum = 0 ;
```

```
for (i = 1; i < 5; i = i + 1)
```

```
{
```

```
sum = sum + i ;
```

```
}
```

```
cout << sum ;
```

- a) Predict the output. (1)
- b) Rewrite the above code using while loop. (2)
29. Compare if ... elseif ladder and switch statements in C++.



Score

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

(2×5=10)

30. a) _____ is known as the brain of Computer. (1)
- b) Write the names of any two image formats. (1)
- c) List the stages of Data processing. (3)
31. a) Write four methods of e-waste disposal. (2)
- b) Expand the term USB. (1)
- c) Group the following into Primary memory and Secondary memory : (2)
- CD, Cache, RAM, Pendrive
32. a) Identify the type of errors in the following : (1)
- i) instead of "+" operator, "/" operator is used.
- ii) rules of the programming language are not followed.
- b) Write algorithm to find the sum and average of three given numbers. (4)
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