



Reg. No. :

FY 46

Name :

**FIRST YEAR HIGHER SECONDARY MODEL
EXAMINATION, FEBRUARY 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.



Score

Answer any five questions from 1 to 6. 1 score each.

(5×1=5)

1. The temporary storage location inside CPU is called
(RAM, Register, Cache)
2. Name the software that translates assembly language program into machine language program.
3. In a flowchart, _____ is used as the input/output symbol.
(Rectangle, Parallelogram, Ellipse)
4. The data type in C++ used to indicate an empty set of data is _____
5. What is the name of files created to support C++ programs and kept in the standard library?
(Audio file, Video file, Header file)
6. Pick the odd one out.
(Virus, Trojan horse, Wikis, Worm)

Answer any nine questions from 7 to 18. 2 scores each.

(9×2=18)

7. How is a computer superior to human in data processing ?
8. Convert $(ACD)_{16}$ into octal number system.
9. a) Define cache memory.
b) What is the advantage of using cache memory ?



- 10. Write any four characteristics of an algorithm.
- 11. Write any two situations in which syntax errors can occur in a program.
- 12. Differentiate break and "break" in C++.
- 13. Compare relational operators and logical operators.
- 14. Define L-value and R-value of a variable.
- 15. Complete the missing parts in the following program that inputs two numbers and finds their sum.

```
#include<iostream>  
using ..... std;  
int ..... ()  
{  
int a, b, Sum;  
cout<<"Enter two numbers";  
.....>>a>>b;  
Sum = .....;  
cout<<"Sum of two numbers"<<Sum;  
}
```
- 16. Compare if... else if ladder and switch statements in C++.
- 17. "While forming a computer network, switch is said to be an intelligent device when compared to hub". Explain.
- 18. Write short note on EPS in e-Business.



Score

(9×3=27)

Answer any nine questions from 19 to 29. 3 scores each.

19. If the Sign and Magnitude representation of a number is 10001101,

- a) Identify the sign bit
- b) Identify the number
- c) Find 1's complement of the number.

20. Explain any three methods for e-waste disposal.

21. Draw a flowchart to input two numbers and find the biggest.

22. a) Define identifiers. (1)

b) Write any four rules to name an identifier. (2)

23. a) What are statements in C++ ? (1)

b) Explain any two types of statements with an example each. (2)

24. Find the value of x in the following statements if x = 5.

a) $x*=2$

b) $x/=2$

c) $x\%=2$

25. Rewrite the following C++ code using for loop

```
int n = 1;
while (n<=5)
{
    cout<<n<<"\t";
    n+=1;
}
```

26. a) Define topology. (1)

b) Name and draw the topology that uses switch to connect all the nodes. (2)

27. a) What is web browsing ? (1)

b) Give two examples for web browsers. (2)

28. a) Name any four classifications of social media. (2)

b) Write any two advantages of social media. (1)

29. e-Learning plays an important role in education system. List any three advantages of e-Learning.

Answer any two questions from 30 to 32. 5 scores each. (2×5=10)

30. a) What is meant by free and open source software ? (1)

b) Explain various freedoms offered by free software foundation. (2)

c) Classify the following into proprietary softwares and free and open source softwares. (2)

(Windows, Mozilla Firefox, Gimp, MS Word)



31. a) Write the name of the loop that will execute the loop body at least once even though the condition is false. Write the syntax of this loop. (3)

b) Write the output of the following C++ code. (2)

```
int n = 1;
while (n<=10)
{
cout<<n<<'t';
n+=2;
}
```

32. a) Define computer network. (1)

b) Explain any two types of networks based on geographical area. (2)

c) Write the name of address assigned to NIC of each computer in a network. Explain. (2)

