



Reg. No. :

FY 546

Name :

**FIRST YEAR HIGHER SECONDARY MODEL
EXAMINATION, FEBRUARY 2025**

Part – III

COMPUTER APPLICATION (COMMERCE)

Maximum : 60 Scores

Time : 2 Hours

Cool-off Time : 15 Minutes

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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.
- Calculations, figures and graphs should be shown in the answer sheet itself.
- Give equations wherever necessary.
- Malayalam version of the questions is also provided.
- 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.
- കണക്ക് കൂട്ടലുകൾ, ചിത്രങ്ങൾ, ഗ്രാഫുകൾ, എന്നിവ ഉത്തരപേപ്പറിൽ തന്നെ ഉണ്ടായിരിക്കണം.
- ആവശ്യമുള്ള സ്ഥലത്ത് സമവാക്യങ്ങൾ കൊടുക്കണം.
- ചോദ്യങ്ങൾ മലയാളത്തിലും നൽകിയിട്ടുണ്ട്.
- പ്രോഗ്രാമുകൾ ചെയ്യാനാകാത്ത കാൽക്കുലേറ്ററുകൾ ഒഴികെയുള്ള ഒരു ഇലക്ട്രോണിക് ഉപകരണവും പരീക്ഷാഹാളിൽ ഉപയോഗിക്കുവാൻ പാടില്ല.



Score

PART – I

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

1. Which of the following register holds address of next instruction to be executed by the processor ?
 - a) Accumulator
 - b) Instruction Register (IR)
 - c) Program Counter (PC)
 - d) Memory Address Register (MAR)
2. 1 TB (Tera Byte) = _____ GB.
3. The process of detecting and correcting errors in a program is called _____
4. The conditional operator in C++ is _____
5. Which loop will execute the loop body at least once even though the condition is false ?
6. Who proposed the idea of www ?

PART – II

Answer any 9 questions from 7 to 18. Each correct answer carries 2 score. (9×2=18)

7. Find the two's complement form of the decimal number : – 117.
8. "ASCII code is enough to represent all the characters of the linguistic languages". Justify.
9. Distinguish between RAM and ROM.
10. Write any two advantages of flowchart.



Score

11. Draw a flowchart for the following algorithm :

Step 1 : START
Step 2 : Input n1, n2
Step 3 : if (n1 > n2) Then
Step 4 : Print n1
Step 5 : Else
Step 6 : Print n2
Step 7 : STOP

12. Distinguish between keywords and identifiers.

13. What will be the result of $(x \leq 10) \&\& (y == 5)$ if value of x is 8 and value of y is 5 ?

14. Explain cascading of input and output operators. Give one example each.

15. Write two C++ statements to decrement the value of the variable x by 1.

16. Rewrite using switch statement :

```
if (sub == 'A')  
    cout(("Arabic");  
else if (sub == 'E')  
    cout(("English");  
else  
    cout(("Invalid input");
```

17. a) Define a network protocol.

(1)

b) List out any two network protocols.

(1)

18. List any two components of e-governance infrastructure.



Score

PART – III

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

19. If $(101111)_2 = (A)_8 = (B)_{16} = (C)_{10}$. Find the value of A, B and C.

20. a) What is called Green Computing ? **(1)**

b) List the different methods for disposing electronic waste. **(2)**

21. The program written by one person may need to be modified by some other person in future.

a) Which phase of program will be helpful for this ? **(1)**

b) Explain the two methods used in the above phase. **(2)**

22. a) Define a token in the programming. **(1)**

b) Write name of any four tokens in C++. **(2)**

23. Classify the identifiers given below as valid and invalid in C++. Give reason for invalidity.

S, if, _String 1, for, stud No, n1, 2C.

24. Correct the errors in the following C++ program to find the sum of three numbers :

```
#include < iostream >
using namespace std ;
int main ()
{
int a ; b ; c ; sum ;
cout >> "Enter Three Numbers";
cin << a << b << c;
a + b + c = sum ;
cout << sum ;
}
```



25. The following code segment prints first 10 natural numbers.

```
int n = 1;
while (n <= 10)
{
    cout << n;
    n++;
}
```

- a) Modify the program to print first 1000 natural numbers.
- b) Rewrite the above code using for loop.

26. Define the following terms related to computer networks :

- a) Node
- b) Bandwidth
- c) Noise.

27. Write any three advantages of using e-mail.

28. Write any three advantages of social media.

29. E-learning plays an important role in education system. List any three advantages and three challenges of e-learning.

PART – IV

Answer any 2 questions from 30 to 32. Each correct answer carries 5 score. (2×5=10)

- 30. a) What is an operating system ? (1)
- b) List out the major functions of an operating system. (2)
- c) Write the difference between compiler and interpreter. (2)



Score

31. Consider the following C++ code :

```
int n = 1;  
  
while (n <= 5)  
{  
  
    cout << n << '\t';  
  
    n++;  
  
}
```

a) Write the output of the above code.

(2)

b) Write the different components of loop from the above code.

(3)

32. a) Define topology.

(1)

b) Explain any two topologies with diagram.

(2+2)
