Class No. : .....

Name : .....

FY 1046

FIRST YEAR HIGHER SECONDARY SECOND TERMINAL EXAMINATION, DECEMBER 2022
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

PART – I

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

1. The temporary storage location inside CPU is called _____

2. A _____ is a large printed circuit board in computer to which all the major components including the processor are integrated.

3. The process of detecting and correcting errors in a program is called _____

4. The tokens that convey a specific meaning to the language compiler are called _____

5. The fundamental data_type that uses 8 bytes of memory is _____

6. The starting symbol of a pre-processor directive statement is _____.

PART – II

Answer any 9 questions from 7 to 17. Each carries 2 scores. **(9×2=18)**

7. Despite the high speed and accuracy, computers are said to be slaves of human beings. Why ?

8. Differentiate ASCII and Unicode.

9. Arrange the following memories into descending order of their speed :
RAM, Cache, Register, Hard disk.

Score

10. a) What is the difference between impact and non impact printers ? (1)

b) Give one example for each. (1)

11. Compare freeware and shareware.

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

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

b) List the two methods used in the above phase. (1)

13. Identify the type of errors in the following situations.

a) Rules of the programming language are not followed. (1)

b) The program compiles successfully, but the output is wrong. (1)

14. What are the rules to name an identifier ?

15. What is the difference between x = 5 and x == 5 in C++ ?

16. Find the R value and memory size of the variable total from the following C++ statement

float total = 34.6 ;

17. Rewrite the following expressions using arithmetic assignment operators.

a) x = x/1 (1)

b) y = y % 1 (1)

Score

PART – III

Answer any 9 questions from 18 to 28. Each carries 3 scores. **(9×3=27)**

18. List the stages of data processing.

19. If $1110011_2 = A_8 = B_{10} = C_{16}$. Find A, B and C.

20. a) What is the use of language processor in a computer ? **(1)**

b) Explain any two types of language processors. **(2)**

21. a) What is an operating system ? **(1)**

b) Write the major functions of an operating system. **(2)**

22. List the phases in programming.

23. a) Define token in C++. **(1)**

b) Name the tokens available in C++ with one example each. **(2)**

24. a) What is the difference between character literal and string literal ? **(1)**

b) Give one example for each. **(2)**

25. Explain any two types of statements in C++.

Score

PART – IV

Answer any 2 questions from 29 to 31. Each carries 5 scores. (2×5=10)

29. a) Explain various methods for representing integers in computer memory. (3)

    b) Represent – 35 in any two methods (Hint : Use 8 bit representation). (2)

30. a) "e-waste is a major problem faced all over the world". Justify the statement. (1)

    b) Explain e-waste disposal methods. (4)

31. a) Define Algorithm. (1)

    b) Write any four characteristics of an algorithm. (2)

    c) Draw flowchart for the following algorithm. (2)

    Step 1 : Start

    Step 2 : Input N

    Step 3 : If N%2=0 then

    Step 4 : Print "Even number"

    Step 5 : Else

    Step 6 : Print "Odd number"

    Step 7 : End of if

    Step 8 : Stop