SECOND YEAR HIGHER SECONDARY EXAMINATION, MARCH 2023

Part – III

Time : 2 Hours

COMPUTER APPLICATION
(COMMERCE)

Cool-off time : 15 Minutes

Maximum : 60 Scores

General Instructions to Candidates :

- There is a 'Cool-off time' of 15 minutes in addition to the writing time.
- Use the '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 മിനിറ്റ് 'കൂൾ ഓഫ് ടൈം' ഉണ്ടായിരിക്കും.
- 'കൂൾ ഓഫ് ടൈം' ചോദ്യങ്ങൾ പരിചയപ്പെടാനും ഉത്തരങ്ങൾ ആസൂത്രണം ചെയ്യാനും ഉപയോഗിക്കുക.
- ഉത്തരങ്ങൾ എഴുതുന്നതിന് മുമ്പ് ചോദ്യങ്ങൾ ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- നിർദ്ദേശങ്ങൾ മുഴുവനും ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- കണക്ക് കൂട്ടലുകൾ, ചിത്രങ്ങൾ, ഗ്രാഫുകൾ, എന്നിവ ഉത്തരപേപ്പറിൽ തന്നെ ഉണ്ടായിരിക്കണം.
- ചോദ്യങ്ങൾ മലയാളത്തിലും നല്ലിയിട്ടുണ്ട്.
- 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. _____ operator is the arithmetic assignment operator.

2. Name the Mathematical function which returns the absolute value of an integer number in C++.

3. _____ tag in HTML used to create a drop-down list.

4. _____ is a JavaScript function used to include a text in the body section of a webpage.

5. DNS stands for _____.

6. Expand MIS.

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

7. Identify the following C++ tokens

    (a) "Morning"   (b) float   (c) >   (d) student

8. List the type modifiers of C++.

9. (i) Define Array (1)
   (ii) Initialize an integer array with 4 elements. (1)

10. Explain any two built-in functions in C++ that are used for string manipulation with its syntax.

11. Differentiate actual arguments and formal arguments in C++.

12. What are the attributes of <HTML> tag and explain its use.

13. What is the use of frame tag in HTML ? What is its limitation ?

14. (i) Explain any two attributes of <TABLE> tag. (1)

    (ii) Name any two tags associated with <TABLE> tag and its use. (1)

15. What is the difference between isNaN() and Number() functions in JavaScript ?

16. Define primary key and alternate key.

17. Differentiate between the datatypes CHAR and VARCHAR in SQL.

18. Explain the following terms :

    (a) Cyber forensics

    (b) Infomania

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

19. (i) Define Traversal operation in an array. (1)

    (ii) How is each element in an array is accessed ? Explain with code segment. (2)

20. (a) Define Modular Programming. (1)

    (b) Explain the merits of Modular programming. (2)

21. Compare static webpage and dynamic webpage.

22. What are the different types of lists in HTML ?

23. Write any three built-in functions in JavaScript and explain its use.

24. Briefly explain different types of web hosting.

25. (i) Define the term Data independence. (1)

    (ii) Explain different levels of Data independence. (2)

26. Explain the different Alter commands and its various use to modify the structure of a table in SQL.

27. (i) Define constraint. **(1)**

(ii) Explain any two column constraints. **(2)**

28. Explain any three benefits of ERP system.

29. Define the following terms :

(i) copyright **(1)**

(ii) patent **(1)**

(iii) infringement **(1)**

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

30. (a) What is looping statements in C++ ? **(1)**

(b) Explain different looping statements. **(2)**

(c) What are the main components of a looping statement ? **(2)**

31. (i) Differentiate Client side Scripting and Server side scripting. **(2)**

(ii) Explain two scripting languages in each scripting languages of client side and server side scripting languages. **(3)**

32. (i) Define DBMS. **(1)**

(ii) Explain any four advantages of DBMS over conventional file system. **(4)**

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