



Reg. No. :

SY 630

Name :

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

**Part – III
COMPUTER SCIENCE
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 of '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 correct answer carries 1 score. (5×1=5)

1. Inserting a new element into a Stack data structure is called _____ operation.
2. Name the tag which has the attribute 'Noresize'.
3. The keyword used to define a variable in JavaScript is _____.
4. Write the symbol of concatenating assignment operator in PHP.
5. Define the term Robotics.
6. A legal right given for the creator of an original work is _____.

PART – II

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

7. i) Orphaned memory blocks are undesirable related with pointers in C++. Justify. (1)
ii) How can they avoided ? (1)
8. Compare different types of tags available in HTML.
9. How can we add comments in an HTML document ?



Score

10. Differentiate Cellspacing and Cellpadding.
11. Classify the following values in Javascript into suitable datatypes.
("123", 567, false, "true")
12. Write names of any four events in JavaScript.
13. What is webhosting ? Write names of different types of webhosting.
14. Write the need for applying responsive web design while developing websites today.
15. List any four advantages of DBMS.
16. Write the difference between WHERE clause and HAVING clause in SQL.
17. What is the difference between echo and print in PHP ?
18. List the special datatypes available in PHP.

PART – III

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

19. i) Define a structure in C++. (1)
- ii) Discuss any two differences between array and structure. (2)



Score

20. i) Read the following code fragment.

```
int a[ ] = {5, 10, 15, 20, 25};
```

```
int *p = a;
```

Predict the output of the following statements.

(1)

```
cout<<* (p+2) ;
```

ii) What is the difference between the two declaration statements given below ?

(2)

a) `int *ptr = new int(10);`

b) `int *ptr = new int[10];`

21. Define Inheritance. List the different forms of inheritance.

22. Write an algorithm to insert an element into a queue.

23. i) Name the data structure where memory allocation is done only at the time of execution.

(1)

ii) Write a note on circular queue. What is its advantage ?

(2)

24. a) Define an attribute in HTML.

(1)

b) Write names of any two attributes of `<BODY>` tag.

(1)

c) Write the use of attribute 'Alt' with ``.

(1)

25. Prepare a note on CSS.



Score

26. Explain about different ways to add scripts to a webpage.
27. Define the terms primary key, candidate key, alternate key in DBMS.
28. With suitable example, explain the Cartesian product operation.
29. Write notes on different Cloud service models.

PART – IV

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

30. Write HTML code to display the following details in the centre of a webpage using appropriate tags. (Except <PRE> tag)

Components of a Computer

- Hardware
 1. I/O Devices
 2. RAM
 3. Hard Disk
- Software
 4. Operating system
 5. Application programs.



Score

31. Write suitable queries in SQL to

- a) Construct a table called EMP with attributes ECODE, ENAME, GENDER, SALARY with ECODE as Primary key of the table. (2)
- b) Display the details of employees from the table EMP. (1)
- c) Display the details of employees who drawn salary more than 10000 from the table EMP. (1)
- d) Modify the SALARY of employee with 12000 whose ECODE 101. (1)

32. i) Define the term e-learning. (1)

ii) Write notes about any two e-learning tools. (2)

iii) Discuss the advantages of e-learning. (2)
