

Reg. No, :



P.T.O.

SECOND YEAR HIGHER SECONDARY SECOND TERMINAL EXAMINATION, DECEMBER-2023

Part -- III

COMPUTER SCIENCE

Time : 2 Hours 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 സമവാകൃങ്ങൾ കൊളുക്കണം.
- പ്രോഗ്രാമുകൾ ചെയ്യാനാകാത്ത കാൽക്കുലേറ്ററുകൾ ഒഴികെയുള്ള ഒരു ഇലക്ക്ട്രോണിക് ഉപകരണവും പരീക്ഷാഹാളിൽ ഉപയോഗിക്കുവാൻ പാടില്ല.

SY-30

- M.				1 3
	Answer any 5 questions from 1 to 6	. Each c	arries 1 score.	$(5 \times 1 = 5)$
1.	Which among the following C++ state			inter variable ?
	(a) cout<<*p;	(b)	p++:	
	(c) $p = new int(5);$	(d)	p=100;	
2.	Choose the odd one out from the follo	wina .		
	(a) Perl	(b)	JSP	
	(c) JavaScript	(d)	HTML	
•		(4)		1
3.	In HTML tag is used to pro	ovide a d	rondown box	
			Topuo win box.	
4.	Write the name of the JavaScript even	it occurs	when the user clicks on a	object.
			when the user clicks on a	100,000
5.	The number of rows or tuples in a rela	ation is c	alled of the rela	tion.
6.	Which SQL command is used to rema	ove a tab	le from database ?	
	Answer any 9 questions from 7 to 1	8. Each	carries 2 scores.	(9 × 2 = 18)
7.	Identify the error in the following st reason for the error.	tructure	definition statement in C-	+ and give the
	struct distance			
	{		3 7 3	
	int cm;			
	int m=1;			
	}d1,d2;			
8.	Write an algorithm to insertion operate	tion in a	QUEUE data structure.	
	Carlos States States			2
9.	Write short note about linked list.		ĸ	
	100			
10.	. Differentiate between internal and ext	ternal lin	king in HTML.	
	·		5	ř.

11. Briefly explain about the tags used in definition list.

SY-30

- 12. What are the arithmetic operators used in JavaScript ?
- 13. Write short note about the following JavaScript built-in functions :
 - (a) isNaN()
 - (b) charAt()
- 14. Consider the following JavaScript statements :

var x,y;

x=true;

y="true";

Distinguish between the last two statements.

- 15. List the advantages of Content Management System (CMS).
- 16. Differentiate between Primary Key and Foreign Key.
- 17. The components of SQL are classified into Data Definition Language (DDL). Data Manipulation Language (DML) and Data Control Language (DCL). Write the use of the following :
 - (a) Data Definition Language (DDL)
 - (b) Data Control Language (DCL)
- 18. Briefly explain about any two aggregate functions used in SQL.

Answer any 9 questions from 19 to 29. Each carries 3 scores.

 $(9 \times 3 = 27)$

19. Consider the following C++ statement

int *p;

Write C++ statements to

- (a) Create an integer variable dynamically.
- (b) Assign the value 99 to it.
- (c) Delete the created integer variable.
- 20. What is polymorphism ? What are the different types of polymorphism ?

21.	Identify 1	the	following	form	controls	and	write	HTML	tag	for	each	to	create	the
	controls.								U					

- (a) To input the name of a student,
- (b) To select "Male" or "Female" (single value from the two values). (1/2)

(1%)

- 22. Write short note about the HTML tags used to divide a browser window into different sections.
- 23. Briefly explain with examples for the string addition operator in JavaScript.
- 24. Write short note about any two control structures used in JavaScript.
- 25. What are the different types of web hosting ? Give a brief explanation about any one.
- 26. Describe about FTP client software and give an example for it.
- 27. List the components of DBMS.
- 28. Write SQL query for the following :
 - (a) Create a table 'Student' with the columns (Roll Number, Name, Gender, Class, Total Marks).
 (1%)
 - (b) List the values of the above table. (1%)
- 29. Write short note about the data types of PHP.

	ADS	swer any 2 questions from 30 to 32. Each carries 5 scores.	() F - 10
30.	(a)	Briefly explain about any three attributes of <body> in HTML.</body>	$(2 \times 5 = 10)$
	(b)	Write HTML and from the line of BODI > in HIML.	(3)
	• •	Write HTML code fragment to display H2SO4.	(1)
	(c)	Write HTML code fragment to display an image named "school.jpg" page.	in a web
			(1)
31.	(a)	Briefly explain about the tags used to create a table in a web page.	
	(b)	Differentiate between Q 1	(3)
	(-)	Differentiate between Ordered and Unordered lists in HTML.	(2)
32.	(a)	Briefly explain about any three advantages of DBMS.	
	(b)	Write short note about any and a dwamages of DBWO.	(3)
	(3)	Write short note about any two operations in relational algebra.	(2)