

ANSWER KEY

CODE NO

SY552

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2024

PART II

SUBJECT : COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

60 SCORES

2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
PART A(Answer All questions)				
1		b) Structure	1	1
2		c) Javascript	1	1
3		b) domain	1	1
4		b) view	1	1
5		a) private	1	1
6		c) append()	1	1
PART B (Answer any 11)				
7	a	Definition of pointer	1	2
	b	datatype *variable – syntax/example	1	
8		Definition of data abstraction	1	2
		Definition of encapsulation	1	
9		Any two difference between OOP and POP	2x1	2
10		ios::app, ios::ate, ios::binary, ios::in, ios::nocreate, ios::noreplace ios::out, ios::trunc (any two) listing – ½ score each explanation – ½ score each	1 1	2
11		Port numbers - 20 & 21(FTP), 22(SSH), 25(SMTP), 53(DNS), 80(HTTP), 110(POP3), 443 (HTTPS)(any two) port number – ½ score each service – ½ score each	1 1	2
12		background, bgcolor, text, link, alink, vlink, leftmargin, topmargin (any two) listing – ½ score each explanation – ½ score each	1 1	2
13		Database administrator(DBA), Application Programmer, Sophisticated users, Naive users (any two) listing – ½ score each explanation – ½ score each	1 1	2
14		Primary Key, Not null, auto_increment, unique, default (any two) listing – ½ score each explanation – ½ score each	1 1	2
15		Any four advantages of DBMS	4x½	2

No	Sub Qns	Answer Key/Value Points	Score	Total Score
16		Any two difference between parallel computing and serial computing	2x1	2
17		Explanation/application of Geographic Information System	2	2
18		Proper use of a loop logic	1 1	2
19		Numeric, String, List, Tuple , Dictionary, Set, Boolean(any two) listing – ½ score each explanation – ½ score each	1 1	2
PART C (Answer any 7)				
20	a b	Explanation of memory leak new and delete operators - explanation	1 1+1	3
21		Private, protected, public listing – ½ score each explanation – ½ score each	1½ 1½	3
22		Class definition Definition of member functions main() function definition	1 1 1	3
23		Container tags(any three) listing – ½ score each explanation – ½ score each	1½ 1½	3
24		INSERT, UPDATE, DELETE, SELECT (any three) listing – ½ score each explanation – ½ score each	1½ 1½	3
25		Electronic books reader (e-Books), e-Text, Online chat, e-Content, Educational TV channels (any three) listing – ½ score each explanation – ½ score each	1½ 1½	3
26		if, if...else, if...elif statements – explanation / syntax / example	3x1	3
27		DDL, DML, DCL- explanation / commands	1+1+1	3
28		Software as a Service (SaaS), Platform as a Service(PaaS) and Infrastructure as a Service (IaaS).	1+1+1	3
PART D (Answer any three)				
29	a b	Polymorphism – definition sum() functions definition main() function definition	1 1+1 1	4
30	a b	count(), min(), max(), sum(), avg() (any four) – explanation where – select rows from a table depending on a condition/single row having – select rows from group by clause depending on a condition/multiple row	4x½ 1 1	4
31		SELECT, PROJECT, UNION, INTERSECT, SET DIFFERENCE, CARTESIAN PRODUCT (any four) listing – ½ score each explanation – ½ score each	2 2	4

No	Sub Qns	Answer Key/Value Points	Score	Total Score
32	(a)	<H1>....<H6> tags - explanation	2	4
	(b)		2	
33	a	Stream - flow of data	1	4
	b	ifstream, ofstream,fstream listing - ½ score each explanation - ½ score each	1½ 1½	

1 John. C.L. 9446705240 John

2 Benny Paul 9447599167 Benny

3 Binolin G. Kulangara 9388803817 Binolin

4 Glancy Xarox 9074022937 Glancy