ANSWER KEY

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2025

SUBJECT : COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

CODE NO : SY452 SCORE : 60

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		PART A(Answer All questions)		
1		b) *(ptr +1)	1	1
2		b) Procedural Programming	1	1
3		c) Web Server	1	1
4		b) Candidate Key	1	1
5		d) DESCRIBE	1	1
6		d) +	1	1
		PART B (Any 11 questions)		
7		new – to allocate memory dynamically delete – to deallocate memory dynamically	1 1	2
8		Data encapsulation – binding of data and functions into a single unit	2	2
9		General form of class declaration	2	2
10		ios::app, ios::ate, ios::binary, ios::in, ios::nocreate, ios::noreplace, ios::out, ios::trunc (any four) listing only meaning	 ¼x4 ¼x4	2
11		Javascript and Vbscript listing only explanation	 ½x2 ½x2	2
12	(a)	<IMG> tag	1	2
	(b)	SRC, HEIGHT, WIDTH, ALT(any two)	1	
13		SELECT – selecting rows from a relation which satisfies certain condition	2	2
14		Explanation of relational data model including tables, relationships, rows and columns (any two valid points)	2	2
15		View – virtual table in SQL – explanation	2	2
16	(a)	Distributed computing – explanation	1	2
	(b)	Parallel computing, grid computing, cluster computing, grid computing(any two)	1	
17		Credit card fraud, intellectual property theft, internet time theft (any two) listing only explanation	 ½x2 ½x2	2
18		Any two difference between tuple and list in Python	1x2	2
19		Any two features of Python	1x2	2

		PART C (Answer any 7 questions)		
20		Any three difference between arrays and structures	1x3	3
21		Overloading functions definition main() function definition0	2 1	3
22		private, protected, public listing only Explanation	½x3 ½x3	3
23		Any three differences between Static & dynamic	1x3	3
24		Any three advantages of DBMS	1x3	3
25		INT, DECIMAL, CHAR, VARCHAR, DATE, TIME Listing only Explanation	¼x6 ¼x6	3
26		Biometrics, robotics, computer vision, NLP, automatic speech recognition, OCR, Bio informatics, GIS (any three) Listing only Explanation	½x3 ½x3	3
27		Electronic book reader, e-text, online chat, e-content, educational TV channel (any three) listing only Explanation	½x3 ½x3	3
28	(a)	Syntax of while loop	1½	3
	(b)	python program using ■ loop	1½	
		PART – D (Answer any 3 questions)		
29		Inheritance - definition Single, multiple, hierarchical, multi level and hybrid (any three) listing only diagram/explanation	1 ½x3 ½x3	4
30		Including the header file <fstream> creating a file in output mode and write the string create an input stream object of the same file read and display its contents	1 1 1 1	4
31		Structure of HTML document Web page content of Kerala in two or three sentences in <BODY> tag background image using BACKGROUND attribute of <BODY> tag Any two text formatting tags	1 1 1 ½x2	4
32		Hardware, Software, Data, Users and Procedures (any four) Listing only Explanation	½x4 ½x4	4
33	(a)	Syntax of CREATE TABLE command	2	4
	(b)	Creation of ITEMS table	2	

John. C. L. | 9446705240

Benoy Paul | 9447599167

Binolin G. Kulangara 9388803817