ANSWER KEY

Max Score: 60 | **SECOND YEAR HIGHER SECONDARY EXAMINATION, MARCH 2024** | VERSION: R | Time: 2 Hours

Part III

SY 530 | **COMPUTER SCIENCE**

Qn. No.	Scoring Indicators	Split Score	Total Score
	Answer any FIVE questions from 1 to 6		
1	(b) *	1	1
2	(c) <INPUT>	1	1
3	Dedicted hosting	1	1
4	Field or Attribute	1	1
5	Data Manipulation Language	1	1
6	(c) Copyright	1	1
	Answer any NINE questions from 7 to 18		
7	(a) datatype * variable; OR any valid example (b) pointer = new datatype; OR datatype * variable = new datatype; OR any valid example (½ score for new)	1 1	2
8	Structrure containing a pointer of same structure as an element. Valid example of self referential structure	1 1	2
9	Provides clear modular structure; Defines new datatyeps; Implements real life scenario; Implements data hiding (*Any two advantages of OOP*)	1 + 1	2
10	Traversing, Searching, Inserting, Deleting, Sorting, Merging (*Any 4*)	4 x ½	2
11	Definition/Explanation/Diagramatic representation of overflow and underflow in stack	1 + 1	2
12	(a) Full Form of HTTPS or its definition or any valid point (b) Software port is used to connect a client computer to a server to access its services like HTTP, FTP, SMTP, etc. OR An example of s/w port with its use (½ for only a valid port no.)	1 1	2
13	Align, Valign, Bgcolor, Rowspan, Colspan (*Any 4*)	4 x ½	2
14	(a) <A Href = mailto: "dhsekerala@gmail.com"> DHSE </A> (mailto - ½). Tag-½ (b) <EMBED Src = "video1.mp4"> (Tag - ½; Attribute with value - ½)	½ + ½ ½ + ½	2
15	(a) + (b) Number()	1 + 1	2
16	Defn of data independence. Physical and Logical	1 + ½ + ½	2
17	Fault tolerance, Sharing of computing resources, Load sharing, Easily expandable. (*Any 2 advantages of Parallel computing*)	1 + 1	2
18	Any two valid points about cloud computing	1 + 1	2
	Answer any NINE questions from 19 to 29		
19	Any three distinguishing points between array and structure. (*An example/ definition may be considrered as value points.*)	1 + 1 + 1	3
20	(a) Defn or explanation of data abstraction in OOP (b) Defn or explanation of Inheritance in OOP (c) Defn or explanation or example of Function overloading	1 1 1	3

CODE: 230 | **ANSWER KEY** | VERSION: R

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Qn. No.	Scoring Indicators	Split Score	Total Score
21	(a) Explanation or Example or Diagram of Linked list (b) Explanation or Example or Diagram of Circular queue (c) Defn or Exaplantion or Example or Diagram of Stack	1 1 1	3
22	Any three distinguishing points between client side scripting and server side scripting	1 + 1 + 1	3
23	Proper use of <OL>; Proper use of 2 sets of <UL>; Correct use of <LI>	1 + 1 + 1	3
24	(a) charAt() (b) isNaN() (c) Boolean	1 + 1 + 1	3
25	function var Number Value for Value	6 x ½	3
26	(a) Any one value point about Free hosting. (b) Any one value point about CMS (*Full form or example gets 1 score*) (c) Any one value point about Responsive web design	1 1 1	3
27	SUM(), AVG(), MIN(), MAX(), COUNT() (*Any 3*) Explanation or example for each	1½ 1½	3
28	(a) CREATE TABLE .... Proper datatypes and Column name } command - ½ clause - ½ (b) SELECT * FROM Employee WHERE Basic >50000; (c) UPDATE Employee SET DA= Basic*20/100 WHERE Desig="Manager";	½ + ½ ½ + ½ ½ + ½	3
29	Integer, Float, Double, String, Boolean (*Any 3*) Explanation or eaxmple for each	1½ 1½	3
Answer any TWO questions from 30 to 32			
30	(a) Use of <HTML>, <HEAD>, <TITLE>, <BODY> with Closing tags (b) (i) <MARQUEE Scrolldelay=5000> Welcome to my page </MARQUEE> (Scrolldelay=5 can be considered. Tag - ½, Attribute - ½) (ii) H₂SO₄	2 + 1 1 1	5
31	(a) (i) Definition/Explanation/Example of primary key (ii) Definition/Explanation/Example of attribute (b) Select, Project, Union, Intersection, Set Difference, Cartesian Product. (Any 3) *Any 3 from the above and* Exaplantion or illustration of them.	1 1 1½ 1½	5
32	(a) Defn or explanation of e-Governance (b) Any 4 benefits of e-Governance (Infrastructrure OR Interactions can also be considered)	1 4 x 1	5
Total Score		**60 + 18**	

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