SV530
SY-30

SECOND YEAR HIGHER SECONDARY EXAMINATION, MARCH 2022   Max Score 60
COMPUTER SCIENCE - ANSWER KEY

Qn. No.	Scoring Indicators	Split Score	Total Score
	Answer any FIVE questions from 1 to 9		
1	struct	1	1
2	(c) new	1	1
3	(b) Multiple inheritance	1	1
4	Stack	1	1
5	Href	1	1
6	<DT>	1	1
7	var	1	1
8	(d) true	1	1
9	. (Dot operator)	1	1
	Answer any FOUR questions from 10 to 13		
10	(d) Virtual Private Server	1	1
11	(c) View level	1	1
12	8	1	1
13	$ (Dollar symbol)	1	1
	Answer any TWO questions from 14 to 17		
14	Definition of polymorphism Static/Compile/Early and Dynamic/Runtime/Late (Function overloading / operator overloading / Virtual functions - ½ + ½)	1 ½ + ½	2
15	Overflow - Attempt to insert an item in a filled satck or queue Underflow - Attempt to remove an item from an empty stack or queue	1 1	2
16	Name of any 2 JavaScript built-in functions Use or example of each	½ + ½ ½ + ½	2
17	Serial - Single processor, Instructions are executed sequentially Parallel - Multiple processors, Instructions are executed parallely (One value point for each gets 1 score)	1 1	2
	Answer any TWO questions from 18 to 20		
18	Definition or example for self referential structure	2	2
19	Concept of private and protected access labels (Private / Protected / Points related to data hiding- 1 score each)	1 + 1	2
20	Linked list - Collection of nodes, Node has 2 parts - data and link (Correct figure may be considered for giving full marks) (Dynamic data structure/ implemented with self referential structure - 1 score each)	1 + 1	2
	Answer any THREE questions from 21 to 24		
21	POP algorithm - Underflow checking; Item removal; TOP decrementing	1 + 1 + 1	3
22	Any three valid points about static and dynamic web pages	1 + 1 + 1	3
23	Three valid points altogether about free hosting	1 + 1 + 1	3
24	PaaS, Iaas, SaaS; Explanation or example in one sentence for each	1½ + 1½	3

Qn. No.	Scoring Indicators	Split Score	Total Score
	Answer any TWO questions from 25 to 27		
25	Use of <SCRIPT> tag	1	3
	Correct JavaScript code with four components of loop (while or for)	4 x ½	
	eg: for (i=1;i<=100;i++) document.write(i);		
26	SUM(), AVG(), COUNT(), MIN(), MAX() - *Any three*	1½	3
	Use or Example for each	1½	
27	Patent, Trademark, Industrial design, Geographic indication - *Any 3*	1½	3
	Explanation or example in one sentence for each	1½	
	Answer any THREE questions from 28 to 31		
28	(a) Any two valid points about static and dynamic memory allocation.	1 + 1	4
	(b) Use of new operator/dynamic memory allocation, Orphaned blocks	1 + 1	
	(Valid points related to memory leak - 2 score)		
29	(a) Any two valid points about CHAR and VARCHAR	1 + 1	4
	(b) To retrieve records/rows. SELECT colnames FROM tablename;	1 + 1	
30	(a) Any two valid points about echo() and print()	1 + 1	4
	(b) Names of any two PHP functions - ½ each; Use - ½ each	1 + 1	
31	(a) Concept of e-Governance	2	4
	(b) SDC, SWAN, CSC (any 2) - ½ each; Explanation or example - ½ each	1 + 1	
	Answer any ONE questions from 32 to 33		
32	(a) Client - Server, Server - Server (½ each)	1	4
	Diagram / Explanation / Example in one sentence for each - ½ each	1	
	(b) Effect of Rowspan and Colspan in one sentence each	1 + 1	
	(Diagram or html code - 2 score)		
33	(a) Any two valid points about cluster computing (Group of PCs in LAN, Low cost for parallel processing, Linux is common etc.)	1 + 1	4
	(b) Any two advantages of grid computing (Solves larger probems, Minimum time, Better use of h/w, Computing power can be increased etc.	1 + 1	
	(Concept of grid computing - 1 score)		
	Answer any TWO questions from 34 to 36		
34	(a) Names of any two <BODY> attributes - ½ each	1	6
	Effects of each of them - ½ each	1	
	(b) Names of any 4 text formatting tags - ½ each	2	
	Effects of each - ½ each	2	

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35	(a) Poper use of <TABLE> (½ score), <TR> (3x½=1½ score), <TH> and <TD> (1 score) *(Only the structure of html code - 1 score)* (b) Ordered, Unorderd, Definition - ½ each Names of corresponding tag - ½ each	3 1½ 1½	6
36	(a) Any four advantages (points only) of DBMS (b) Hardware, Software, Database, User, Procedure (*any 4*)	4 x 1 4 x ½	6
Total Score		**90**	

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