SY530 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

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	Answer any TWO questions from 25 to 27		
25	Use of <SCRIPT> tag Correct JavaScript code with four components of loop (while or for) eg: for (i=1;i<=100;i++) document.write(i);	1 4 x ½	3
26	SUM(), AVG(), COUNT(), MIN(), MAX() - *Any three* Use or Example for each	1½ 1½	3
27	Patent, Trademark, Industrial design, Geographic indication - *Any 3* Explanation or example in one sentence for each	1½ 1½	3
	Answer any THREE questions from 28 to 31		
28	(a) Any two valid points about static and dynamic memory allocation. (b) Use of new operator/dynamic memory allocation, Orphaned blocks *(Valid points related to memory leak - 2 score)*	1 + 1 1 + 1	4
29	(a) Any two valid points about CHAR and VARCHAR (b) To retrieve records/rows. SELECT colnames FROM tablename;	1 + 1 1 + 1	4
30	(a) Any two valid points about echo() and print() (b) Names of any two PHP functions - ½ each; Use - ½ each	1 + 1 1 + 1	4
31	(a) Concept of e-Governance (b) SDC, SWAN, CSC (any 2) - ½ each; Explanation or example - ½ each	2 1 + 1	4
	Answer any ONE questions from 32 to 33		
32	(a) Client - Server, Server - Server (½ each) Diagram / Explanation / Example in one sentence for each - ½ each (b) Effect of Rowspan and Colspan in one sentence each *(Diagram or html code - 2 score)*	1 1 1 + 1	4
33	(a) Any two valid points about cluster computing (Group of PCs in LAN, Low cost for parallel processing, Linux is common etc.) (b) Any two advantages of grid computing (Solves larger probems, Minimum time, Better use of h/w, Computing power can be increased etc. *(Concept of grid computing - 1 score)*	1 + 1 1 + 1	4
	Answer any TWO questions from 34 to 36		
34	(a) Names of any two <BODY> attributes - ½ each Effects of each of them - ½ each (b) Names of any 4 text formatting tags - ½ each Effects of each - ½ each	1 1 2 2	6

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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**	