ANSWER KEY

FIRST YEAR HIGHER SECONDARY EXAMINATION, 2026

COMPUTER SCIENCE

CODE: FY 130 | Version:

Max. Score: 60 | Time: 2 Hours

Qn. No.	Scoring Indicators	Split Score	Total Score
	Answer any FIVE questions from 1 to 6		
1	(c) John Von Neumann	1	1
2	(c) Both Translation and Execution or (a) or (b)	1	1
3	keywords	1	1
4	4	1	1
5	0	1	1
6	get() or getline() or gets()	1	1
	Answer any NINE questions from 7 to 18		
7	NAND, NOR. Can represent any boolean operation.	½ + ½ + 1	2
8	00111011 --> 11000100 --> 11000101	½ + ½ + 1	2
9	A . B $B^{'}$ $B^{'}$. C A.B + $B^{'}$.C	4 x ½	2
10	Memory mgmt., Process mgmt., File mgmt., Device mgmt.	4 x ½	2
11	Proper use of two decision symbols, (full Score) Correct flow - one for loop and the other for factor checking	½ + ½ ½ + ½	2
12	Input, Sum, Average, Print	4 x ½	2
13	Number, _Val, cin, Val_1 (Give full score with or without cin)	4 x ½	2
14	Proper placement of the 4 components in do - while.	4 x ½	2
15	Entry-controlled: Condition first & then body, Body may never be executed Exit-controlled: Body first & then condition, Body will be executed at least once. Example or Syntax - full Score / (for loop or while loop - ½ score do-while loop - ½ score)	½ + ½ ½ + ½	2
16 a)	6. No. of elements used in the initialisation / 24 bytes (6x4bytes)	½ + ½	2
16 b)	24 Bytes. Size of int - 4 x 6 = 24 Bytes	½ + ½	
17	char str[] = "Program"; 8 Bytes	1 + 1	2
18	Phishing - Getting secured data by providing duplicate site. / definition Spoofing - The process of creating duplicate web sites. / definition	1 1	2
	Answer any NINE questions from 19 to 29		
19	Any 1 features from each of the 3rd, 4th & 5th generation of computers	1 + 1 + 1	3
20	$(1100001)_2$ $(141)_8$ $(61)_{16}$ (*Process - ½ each Result - ½ each*)	1 + 1 + 1	3
21	(a) - (iii) - 2 (b) - (i) - 3 (c) - (ii) - 1 (*½ for each match*)	1 + 1 + 1	3
22	Syntax, Logical, Run-time. Explanation or example for each (½ score each) (½ score each)	1½ + 1½	3

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23	(a) int, char, float, double, void (*any 4*) (b) int a = 5;	4 x ½ 1	3
24	Any three comparison points b/w if - else if and switch / Example or syntax (full score)	1 + 1 + 1	3
25	Linear - Any order, Visits all locations, Slow Binary - Sorted, Visits half-way, Fast	1½ 1½	3
26	strlen(), strcpy(), strcat(), strcmp(), - any 3 (strcmp(c)) Use of each	1½ 1½	3
27	(a) 10 (b) 7 (c) 5	1 + 1 + 1	3
28	Resource sharing, Price-performance ratio, Communication, Reliability, Scalability. (*Any 3 with explanation*)	1 + 1 + 1	3
29	Bring people together, help to plan and organise events, promoting business, enhance social skills. (*Any 3 with explanation*)	1 + 1 + 1	3
	Answer any TWO questions from 30 to 32		
30	Diagram with 5 blocks and correct flow Exaplantion of each unit / Name for each unit with simple explanation	5 x ½ 5 x ½	5
31	(a) No ; after float d c = a / b One extra + in c+++ % does not work with d (b) 2 2 2.5	4 x ½ 1 + 1 1	5
32	(a) Bridge - Broadcasts, Traffic issue / definition Router - Intelligent to identify the destined, Less traffic / definition (b) Any three topolgies with explanation and diagram. (Name only - ½ Score each)	1 1 1 + 1 + 1	5
	Total Score	**60 + 18**	

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