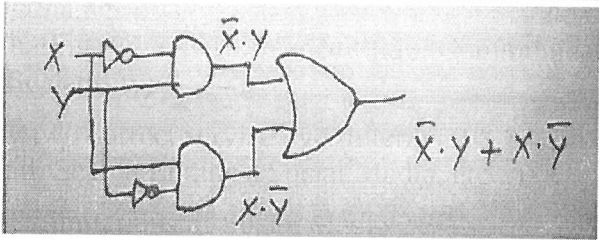


ANSWER KEY

FIRST YEAR HIGHER SECONDARY IMPROVEMENT EXAMINATION JANUARY 2022
PART IIISUBJECT: COMPUTER SCIENCE
60 SCORESQP CODE: FY430
2 HOURS

Qn No	Sub Qns	Answer Key / Value Points	Score	Total Score
1	A	Charles Babbage	1	1
	B	Debugging	1	1
	C	void	1	1
	D	0	1	1
	E	isalnum()	1	1
2	A	(27) ₁₀	1	1
	B	(1010 1100) ₂	1	1
3		Correct explanation for registers	1	2
		Correct one example	1	
		OR Any FOUR Examples (1/2 * 4)	2	
4		Correct definition of e-waste	1	2
		Correct name of any one e-waste disposal method	1	
5		Correct answer for language processor	2	2
6		Correct answer for Utility Software	1	2
		Correct name of any one utility software	1	
7		Correct definition of Algorithm OR Example of an algorithm	2	2
8		Correct meaning of internal documentation / comments	2	2
9		Correct answer / definition of keyword	2	2
10		Any 4 data types (int, float, void, char, double) 4 * 1/2	2	2
11		for loop and while loop	2	2
12		int x[4] = {89,75,92,65}; OR int x[] = {89,75,92,65}; OR int x[4]; x[0]=89; x[1]=75; x[2]=92; x[3]=65;	2	2
13		NULL ('\0') character is used as the string terminator and is added at the end of the string	2	2
14		Any correct names of 2 stream functions (get(), getline(), put(), write())	2	2
15		Reduces the size of the program, Less chance of error, Reduces program complexity, Improves reusability, etc... (4 * 1/2)	2	2
16		Any 2 valid points on main()	2	2
17		Any 2 valid comparison points on formal parameter and actual parameter	2	2

Qn No	Sub Qns	Answer Key / Value Points	Score	Total Score
18		Any 4 correct names of advantage of networks 4 * 1/2 (Resource sharing, Price Performance Ratio, Communication, Reliability, Scalability)	2	2
19		Name of any two correct service over internet 2 * 1 (www, e-Mail, Search Engines, Social Media, etc...)	2	2
20		Any 2 correct limitations of Social Media 2 * 1 (Intrusion to privacy, Addiction, Spread Rumours, etc...)	2	2
21		Correct Definition (Quarantine is a special area for storing files probably infected with viruses)	2	2
22		Any 2 valid points related related to any 2 generations of computers 1 1/2 * 2	3	3
23		NAND gate , NOR gate are the universal gates 2 * 1	2	3
		Correct symbols of NAND gate and NOR gate 2 * 1/2	1	
24		 <p>Correct Logical Circuit</p>	3	3
25		Any 3 valid points on Comparison of RAM and ROM 3 * 1	3	3
26		Correct definition of Operating System	2	3
		Any 2 valid examples of Operating System 2 * 1/2	1	
27		Correct Flow Chart (OR Correct Flow Chart Symbols for each step 6 * 1/2)	3	3
28		Any 2 valid points each on comparison of Syntax Error & Logical Error 2 * 1 1/2	3	3
29		Any 3 rules for naming identifiers 3 * 1	3	3
30		Declaration Statement, Assignment Statement, Input Statement, Output Statement, etc...(Any 3 names 3* 1)	3	3
31		Correct Structure OR Sample C++ Program	3	3
32		Correct definition OR Example	3	3
33		Any 2 valid points on Comparison of break & continue OR sample code with break and continue	3	3
34		Correct conversion	3	3
35		Any 3 valid points on Array Traversal	3	3
36		Correct Algorithm / Program / Illustration of Selection Sort	3	3

Qn No	Sub Qns	Answer Key / Value Points	Score	Total Score
37	a	strcpy() - To copy one string to another	1	3
	b	pow() - to find the power of a number	1	
	c	isupper() - to check whether a character is upper case or not	1	
38		Explanation of Call by Value & Call by Reference method 2 * 1 1/2	3	3
		OR Only names of Call by Value and Call by Reference method 2 * 1	2	
39		Any 3 valid points on Comparison of Router & Gateway	3	3
40		Comparison or Explanation of any 3 Topologies 3 * 1 OR Any 3 Name of Topologies 3 * 1/2 OR Correct Diagram 3 * 1/2	3	3
41		Correct definition of e-Mail	1	3
		Example of an e-Mail	1	
		Structure of e-Mail	1	
42	a	Correct Definition of bit	1	5
	b	ASCII – American Standard Code for Information Interchange	1	
	c	Finding of Binary equivalent of 38 (00100110)	1	
		Finding 1s Complement (11011001)	1	
		Finding of 2s Complement (11011010)	1	
43	a	Correct syntax OR Example of for statement	2	5
	b	Correct rewriting with switch statement	3	
44	a	Bandwidth – Correct Explanation	1	5
	b	MAC – Correct Expansion OR Description	1	
	c	Switch – Correct Explanation	1	
	d	Modem – Correct Explanation	1	
	e	IP – Correct expansion OR Explanation	1	

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