

1
6ANSWER KEYFirst YEAR HIGHER SECONDARY EXAMINATION ^{IMPROVEMENT} ^{October} ~~March~~ 2022

PART-I/II/III

SUBJECT: Computer Science & Information TechnologyCODE NO: F4852VERSION: C60 SCORES2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		PART A $5 \times 1 = 5$		
1		c) jpeg	1	1
2		b) gimp	1	1
3		b) 20.5	1	1
4		b) 10	1	1
5		c) bandwidth	1	1
6		c) crooske	1	1
		PART B $11 \times 2 = 22$		
7		First generation - Vacuum tube, No operating system, Machine language, 1940-1956 Second generation - Transistor, No operating system, Assembly language, 1956-1963 Any two valid points from each side	2	2
8		Discovered by the Mesopotamians around 3000 BC, calculating board, counting frame, consists of beads etc Any two valid points	2	2

$$\frac{2}{6}$$

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
9		Symbol - 1 score Explanation / Truth table - 1 score	2	2
10		sign and magnitude representation, 1's complement representation, 2's complement representation Any two representations with one point	2	2
11		Any two ports - 1 score Use - 1 score	2	2
12		Flowchart symbols - 1 score Logic - 1 score	2	2
13		Any two escape sequence characters - 1 score Use - 1 score	2	2
14		Any two valid points about preprocessor directives - 2 score.	2	2
15		Any two fundamental data types - 1 score Explanation - 1 score	2	2
16		Any two valid points from linear and binary search methods - 2 score	2	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
17	a)	First name - space not allowed	1	2
	b)	4A - cannot start with a digit	1	
18		<pre> sum = 0; i = 1; while (i <= 10) { sum = sum + i; i++; } cout << "sum = " << sum;</pre>	2	2
19	a	int sum (int, int);	1	2
	b	void print();	1	
20		Any two valid points from local and global variables	2	2
21		Any two valid points about IP address	2	2
		<p>PART C</p> <p>7 x 3 = 21</p>		
22	a)	$(218)_{10} = (11011010)_2$	1	3
	b)	$(2D)_{16} = (45)_{10}$	1	
	c)	$(1000)_{10} = (1750)_8$	1	

4
6

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
23		Any 3 valid points RAM and ROM	3	3
24		Any 3 e-waste disposal methods - 1/2 score Explanation - 1/2 score	3	3
25		Problem Identification, Algorithm and flowchart, Coding, Translation, Debugging, Execution and Testing, Documentation	3	3
26		Any 3 valid points from break and continue statements	3	3
27		Any 3 valid points about switch statement. or one point + example	3	3
28	a	gets() - Accept a string from keyboard	1	3
	b	puts() - Display a string	1	
	c	getchar() - Accept a character from keyboard	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
29	a	stacken()	1	3
	b	stackmpc() / stackmpi()	1	
	c	stackpy()	1	
30		Any 3 valid points from LAN and WAN		3
31		Any three advantages of e-mail		3
		PART D		
		$3 \times 4 = 12$		
32		Theorems - 2 score Proof - 2 score		4
33	a	Any two registers - 1 score Explanation - 1 score.	2	4
	b	Any four functions of operating system $4 \times \frac{1}{2} = 2$ score	2	
34	a	Any 3 valid points about conditional operator	3	4
	b	signed / unsigned / short / long	1	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
35		Header file - 1 score Array declaration - 1 score Read and print - 2 score	4	4
36		Any 4 valid points about two communication medium	4	4
37		Virus, worm, Trojan horse, spams, Hacking, phishing, Dos, Man-in-the-middle attacks Any four threats - 2 score Explanation - 2 score	4	4