

ANSWER KEY

CODE NO | FY452

FIRST YEAR HIGHER SECONDARY EXAMINATION MARCH 2023


PART II

SUBJECT : COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

60 SCORES2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
PART A(Answer five questions)				
1		d) HDMI	1	1
2		a) Tokens	1	1
3		d) ?:	1	1
4		a)get()	1	1
5		c) Optical Fiber	1	1
6		a) Phishing	1	1
PART B(Answer any 11 questions)				
7		if(a>b) l=a; else l=b;	2	2
8		+, -, /, *, % - explanation (any four)	2	2
9		char, int, float, double, void – explanation (any four)	2	2
10	a	40	1	2
	b	11	1	
11		Any two difference	1+1	2
12	i	islower() - ctype.h	½x4	2
	ii	exit() - stdlib.h		
	iii	sqrt() - math.h		
	iv	strlen() - string.h		
13		'\0' – character literal/backslash character literal/escape sequence	½	2
		0 – integer literal	½	
		'0' – character literal	½	
		"0" - string literal	½	
14		Any four rules – ½ marks each	½x4	2
15		Any four flowchart symbol	½x4	2

16		Small and very fast memory in between RAM and processor	2	2
17		ASCII -expansion , 7 bit code, can include English alphabets and symbols(any two)	2	2
18		$(204)_{10} = (11001100)_2$ $(111011)_2 = (73)_8$	1x2	2
19	(i)	First – Vacuum tube	$\frac{1}{2}$	2
	(ii)	Second – Transistor	$\frac{1}{2}$	
	(iii)	Third – Integrated Circuits	$\frac{1}{2}$	
	(iv)	Fourth – Large Scale and Very large Scale Integrated Circuits	$\frac{1}{2}$	
PART C(Answer any 7 questions)				
20		Symbol and truth table of each logic gate	1+1+1	3
21		Any three functions of OS	1+1+1	3
22		Any three difference	1+1+1	3
23		steps	2	3
		logic	1	
24		Explanation of console functions and stream functions	2 2	3
		Example	1	
25		Program structure	1	3
		logic	1	
		selection using if... else statement or switch statement	1	
26		Any two difference	2	3
		Example	1	
27		Any three advantages	1+1+1	3
28		World wide Web, Search Engine, E-mail, Social Media(any three)	1+1+1	3
PART - D(Answer any 3 questions)				
29	a	Assignment and relational/comparison operator	2	4
	b	Arithmetic/binary and increment operator/unary operator - use	2	
30		De-morgan's theorems(statements only)	2	4
		proof using truth table	1+1	
31		Program structure	1	4
		array declaration	1	
		input	1	
		output	1	
32		PAN,LAN,MAN,WAN- Explanation	1+1+1+1	4
33		Advantages(any three)	3	4
		Disadvantage(any one)	1	

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