

ANSWER KEY.....I..... YEAR HIGHER SECONDARY EXAMINATION September 2021

PART-I/II/III

SUBJECT: Computer Science and Information Technology
(CS & IT)CODE NO: FY-252VERSION: D60 SCORES2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		PART A		
1	(i) scanners (ii) Identifiers (iii) '\0' (iv) Optical Fibre (v) Firewall		1 1 1 1 1	5
		PART B		
2	First generation - Vacuum tube Second generation - Transistor (Any one valid comparison from both generations)		1 1	2
3	(a) $125_{10} = 175_8$ (b) $(1100101)_2 = 101_{10}$		1 1	2
4	$\overline{X+Y} = \overline{X} \cdot \overline{Y}$ $\overline{X \cdot Y} = \overline{X} + \overline{Y}$		1 1	2
5	RAM, ROM, Cache memory (Any two)		1+1	2
6	Environmentally sustainable computing is called Green computing		2	2

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7.		Syntax error, Logical error, Runtime error (Any two)	1+1	2
8.		Any four flowchart symbols and its use	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$	2
9.	(a) character literal (b) string " (c) Floating point " (d) Integer "		$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2
10		Keyword - Predefined words that have special meaning. Any 2 examples Any 2 examples	1 1	2
11		Variable - Quantity whose value may change during execution. or memory reference Any 2 examples	1 1	2
12.		long, short, signed, unsigned (Any two)	1+1	2
13.		declaration & input process computation & output	1 1	2
14.		Syntax of for statement -	2	
15		Write the 543	2	
16.		float a[30]; int rollno[50];	1 1	2
17.		cin will not accept space in string	2	2
18.		to input a line of characters (Accept a string from keyboard)	2	2
19.		actual parameter $\rightarrow$ in calling statement ^{function} formal parameter $\rightarrow$ in called statement ^{function}	1 1	2

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20		Any 2 mathematical functions	1+1	2
21	(a)	Bandwidth (def) → Amount of data sent per unit of time	1	2
	(b)	noise (def) → unwanted electric or electromagnetic energy that lowers the quality of data signals.	1	
22		web browser → def	1	2
		Example →	1	
23		Difference Engine Analytical Engine	1/2 1 1/2	3
24		AND, OR, NOT (Gates) → Explanation	1+1+1	3
25		base, symbols, (Any 2 points)	1/2+1 1/2	3
26		Any 3 methods	1+1+1	3
27		assembler - use (Converted - assembly → machine) Compiler - use (High level → machine) interpreter - use (High level → machine)	1 1 1	3
28		Hard Disk, CD, DVD, ... (Any 3)	1+1+1	3
29		input →, computation, output →	1+1+1	3
30		44, 11, 1 → Explanation	1+1+1	3
31		input declaration, input computation output →	1 1 1	3
32		use of switch syntax of switch	1 2	3
33		Any 2 methods Eg	1+1 1	3 3

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34	(a)	Modular programming — Dividing large programs into smaller sub programs	1	3
	(b)	Global variable — Variable that can be accessed throughout the program	1	
	(c)	Recursion — A function calling itself	1	
35		Any 3 advantages (data communication, resource sharing, reliability, ...)	1+1+1	3
36	(a)	Internet — def Global network of computers	(1 1/2)	3
	(b)	Intranet — def Private network	(1 1/2)	
37		Sms, mms, ... (Any 2) with explanation	1 1/2 + 1 1/2	2 3
38	(a)	ASCII explanation	2	4
	(b)	Unicode explanation	2	
39		Operating system definition 3 functions	1 3	4
40		int, char, float, double (Any 4) (explanation)	1+1+1+1	4

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41.		declaration - 1 input - reading - $1\frac{1}{2}$ display - $1\frac{1}{2}$	1 $1\frac{1}{2}$ $1\frac{1}{2}$	4
42	(a)	repeater - explanation	2	4
	(b)	Gateway - explanation	2	
43		PAN, LAN, MAN, WAN	1+1+1+1	4
44.		Advantages of social media	2	4
		Disadvantages of social media.	2	
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