

1/4

ANSWER KEY

FIRST YEAR HIGHER SECONDARY EXAMINAION JUNE 2022

PART III

SUBJECT: COMPUTER SCIENCE

CODE NO: FY 30

VERSION : D

60 SCORES



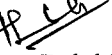
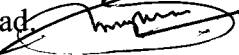

2HOURS

Qn No	Sub Qns	Answer Key/ Value Points	Score	Total Score
1		Alan Turing	1	1
2		Ubuntu/Fedora/ Redhat, Libre Office, MySQL or name of any other open source software	1	1
3		?: or Conditional Operator	1	1
4		\0 or Null Character	1	1
5		Recursion /recursive	1	1
6		cmath /math.h	1	1
7		HTTP, TCP/IP, FTP,SMTP or name of any other network protocol.	1	1
8		$(101000111)_2$, $(147)_{16}$	1+1	2
9		Any two differences	1+1	2
10		Accumulator, IR, MBR,MAR, PC ($\frac{1}{2}$ score each)	$\frac{1}{2} \times 4$	2
11		Memory, process, file, Device managements, Command Interpreter (Any 4)	$\frac{1}{2} \times 4$	2
12		Syntax error – rules of programming language is not followed / detected at translation. (1 score) Logical error – improper planning of programming / Difficult to detect. (1 score) Correct example or any other valid points can be considered.	1+1	2

13	<p>Character literal – Single character enclosed in single quotes or example (1 score)</p> <p>String Literal – One or more character enclosed in double quotes or example (1 score)</p>	1 + 1	2
14	<p>goto , continue, break, exit(),return.</p> <p>Any two with explanation (1 score each)</p> <p>Any 4 names only (½ score x 4)</p>	1+1	2
15	<p>Any 2 correct comparison or examples or syntax. (1 score each)</p>	1 + 1	2
16	<p>int a[5]; (1 score)</p> <p>Graphical representation/ explanation/ 20 Bytes (1 score)</p>	1 1	2
17	<p>Any two valid comparisons or algorithm or example. (1 score each)</p>	1 + 1	2
18	<p>strlen(), strcpy(), strcmp(), strcmpi(), strcat() etc (Any two & their use / example 1 score each)</p> <p>Any 4 names only (½ score each)</p>	1+1	2
19	<ul style="list-style-type: none"> • Function declaration statement/Function Prototype. • Explanation about return value. • Explanation about function name. • Explanation about parameters. <p>(Any two points 1 score each)</p>	1+1	2
20	<p>Any two points 1½ each</p>	1½ + 1½	3
21	<p>Binary – 1001110 (1 score)</p> <p>8 bit - 01001110 (½ score)</p> <p>1's compliment – 10110001 (½ score)</p> <p>2's compliment – 10110001 +1 = 10110010 (1 score).</p> <p>Correct procedure only (1 Score)</p>	1+½+½+1	3
22	<p>e – Waste definition (1 score).</p> <p>Recycling, reuse, incineration, land filling any 2 with explanation (1 score each).</p> <p>Names only (½ score each)</p>	1 1+1	3

23		Problem identification, preparing algorithm and flowchart, coding, translation, debugging, execution and testing, documentation. Names of any 3 steps.	1+1+1	3
24		if - keyword, 5sum - first letter should be a letter , student age - white spaces can't be included. Identifying invalid identifiers ($\frac{1}{2}$ score each) Justification ($\frac{1}{2}$ score each)	1+1+1	3
25		Preprocessor directive (1 score) main() (1 score) statements explanation (1 score) or Correct program code.	1+1+1	3
26		Use of while, do – while, for loop (1 score) Initialization (1 score) loop body (1 score)	1 1+1	3
27		Correct steps / Algorithm or program /Graphical representation (3 Scores). or Partial explanation (2 score)	3	3
28		get(), getline(), put(), write() Any 3 names(1score each). Any two names with explanation($1\frac{1}{2}$ score each)	1+1+1	3
29		Any two valid points	$1\frac{1}{2}+1\frac{1}{2}$	3
30		Any one valid points about each.	1+1+1	3
31		Internet forums, social blogs, microblogs, Wikis, Social networks, content communities (Any three 1 score each)	1+1+1	3
32		Correct answer (1 score each).	1+1+1	3
33	a	Correct circuit using two AND gates and one OR gate (3 Scores). Circuit with any two correct gates (2 scores).	3	5

	b	A.1 = A (2 score)	2	
34	a	Any two advantages(1 score each)	2 + 3	5
	b	Correct flow chart (3 scores) Any three symbols (2 scores)		
35	a	int, float, char, double, void -Any 3 names with explanation (3 scores). Names only(1/2 score each)	3	5
	b	short, long, signed, unsigned (1/2 score each)	1/2 x 4	
36		Bus, star, ring, mesh(1/2 score each) Explanation or correct diagram (1 1/2 score each)	1/2 x 4 1 1/2 + 1 1/2	5

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