Answer Key
First Year Higher Secondary Examinations September 2021
Computer Application - Commerce

Code: FY 246   Maximum score: 60

1	a) Information	1	5
	b) American Standard Code for Information Interchange	1	
	c) Cache	1	
	d) Source Code	1	
	e) Tim Berners Lee	1	
2	Definition of Data	2	2
	Example of data 1 score	1	
3	Method to represent Characters. Give unique number to every character. It uses 16 bit and more for representation. Can represent all universal languages. OR any related points.	2	2
	Two points 1 score each		
4	$(10111)_2$	2	2
5	**Compiler:** Convert HLL to Machine language. Converting whole program in a single run, Error list is given with line number.	1+1	2
	Interpretor: Convert HLL to Machine language. Conversion is done in line by line. Stops at the first error for rectification.		
6	* Reuse * Recycle * incineration * Land filling	1+1	2
	Any two points 1 score each		
7	Step 1: Start	2	2
	Step 2 : Input A,B		
	Step 3: Sum-A+B		
	Step 4: Output Sum/ Print sum		
	Step 5: Stop		
	OR any other correct algorithm		
8	Any two symbols 1 score each	1+1	2
9	Tokens are the basic building blocks of C++ program OR Examples with explanations	2	2
	OR Listing any4 tokens		
10	**Logical AND(&&), OR(||), NOT(!)**	1+1	2
	Explanation of any two operators OR Definition of any two Logical operators		
11	Expressions are composed of Operators and Operands OR Any other definition.	2	2
	1. Relational expressions 2. Arithmetic expressions 3. Logical expressions		
	(Definition 1/2 score, Listing of expressions 1/2 score each)		

12	Definition of Variable OR Declaration statement of a variable with explanation	2	2
13	Single line comment and Multi line comment OR Examples for each comment	1+1	2
14	Implicit/ Type promotion, Explicit / Type casting	1+1	2
15	for loop. While loop	1+1	2
16	decision making statement / selection statements, Iteration statements / Looping statements	1+1	2
17	Initialisation statement, Test expression, Update statement, loop body	1/2 x 4	2
18	LAN: Covers a small area, High speed, Less expensive or any related points WAN: Covers a large area,Moderate speed, Expensive or any related points. **Any one point from LAN and WAN, 1 score each**	1+1	2
19	Resource sharing, Price-performance ratio, Communication, Reliability, Scalability **(Any 4 points without explanation 1/2 score each)**	1/2 x 4	2
20	Internet forums, Social blogs, Micro blogs, Wikies, Social networks, Content communities . Any 4 OR Examples of any classification 1/2 score each.	1/2 x 4	2
21	E-governance: is the application of ICT for delivering Govt. Services to public in a convenient, efficient and transparent manner OR Any other definition	2	2
22	1. Capturing data 2.Input 3.Storage 4. Processing of data 5. Output 6. Distribution of Output **Any example showing different stages 2 score**	1/2 x 6	3
23	ALU, Control unit, Registers with explanation **Name only 1/2 score each**	1+1+1	3
24	Freeware: Download from internet and use for free, All features are free, Can be distributed to others. Shareware: Give a chance to use before buying it, All features are not available, May/may not distributed to others without author's permission	1/2 x 6	3
25	Operating System, Language Processor, Utility Software	1+1+1	3
26	Better communication,Effective analysis,Effective synthesis,Efficient coding, **Any three 1 score each**	1+1+1	3
27	The process of detecting and correcting errors in the program is called debugging. Syntax errors , logical errors, Run time error **Definition 1 score Any two Error names 1 sore each**	1+2	3
28	Integer, Real, Floating point, Character,String, Escape sequence **Any three 1 score each**	1+1+1	3

29	* The first character must be a letter or underscore * Key words not allowed * digits can be used after an alphabet * white space or special characters are not allowed * it is case sensitive **Any three 1 score each**	1+1+1	3
30	void, char, int, float, double **Any three 1 score each**	1+1+1	3
31	input statements, output statements, Control statements, iterative statements, Looping statements, jumping statements,decision making statements Name of any C++ statement names with explanation OR three Examples **(any three 1 score each) Name only 1/2 score each**	1+1+1	3
32	Definition of preprocessor directive and examples. Names 1/2 score each	2+1	3
33	Any three symbols Or any three correct statements or examples 1 score each	1+1+1	3
34	Switch: Permits multiple branching, Evaluates condition with equality operators, Case constant must be an integer/character constant, When no match is found default statement is executed, Break statement is required to exit from switch. Else-if ladder: Permits multiple branching, Evaluate any relational or logical expression, Condition may include floating point constant also, When no expression evaluates to true else block is executed, Automatically exit after the completion of a block. **Any three difference 1 score each**	1+1+1	3

35	for (initialization expression; Test expression; update expression)
	{
	Body of the loop;
	}
	Correct syntax OR Correct example of for loop 3 score.
	          OR
	Partially correct syntax Score = 1.5 OR
	Correct flowchart 3 Score
		3	3

36	Switch: An intelligent device that connects several computers to form a network. Bridge: A device used to split a network into different segments. Router: A device that can interconnect two networks of the same type which follows same protocol. **Definition carry 1 score each**	1+1+1	3

37	It stands for Transmission Control Protocol/ Internet Protocol. It is a suit of communication protocols used to interconnect local devices on local network and Internet. It defines rules how electronic devices should connect on internet and how data should be packed and transmitted between them. (Any Three points)	1+1+1	3
	OR Working diagram of TCP/IP		
38	a) Internet Message Access Protocol (IMAP) OR Simple Mail Transfer Protocol (SMTP) Or PoP	1	3
	b) Speed, Easy to use, Eco friendly, provisions for attaching all kinds of files, Reply and forward facility, **Any two 1 score each**	1+1	
39	Any correct definition of Hacking 2 score. Type names 1/2 score each	2 +1 OR 1+1+1	3
	OR Type with explanation 1score each		
40	1.e-book reader 2.e-text 3.Online chat 4.e-content 5. Education channels **Any 3 learning tools 1 score each**	1+1+1	3
41	1.Leads to automation of govt. services 2. Strengthen democracy 3. More transparency in functioning 4. Increase the responsibility of govt. departments 5.Save unnecessary visit to govt. Offices 6. other related points **(Any three points 1 score each)**	1+1+1	3
42	Keyboard, Mouse, Light pen, Touch screen, Touch Pad, Graphic tablet,Joy stick, Scanner, OMR, Barcode reader, QR code reader,, MICR, Biometric sensor, Smart card reader, digital camera **Explanation of any 5 devices 1 score each.** **(Name of any five devices 1/2 score each)**	1 x 5	5
43	Phases in programming: 1. Problem identification 2.Algorithms and Flowcharts 3.Coding the program 4. Translation 5.Debugging 6.Execution and testing 7.Documentation	5	5
44	a) Topology	1	5
	b) Ring topology	1	
	c) Star topology, Ring topology, Bus topology, Mesh topology.	3	
	Explanation of any three 1 score each. Name only 1/2 score each. Diagram of any three topology 1 score each		

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156790	THEJO T D	9447463460
209910	AJISH M	9495356128
210230	HARI R VISWANATH	9497284101
194486	BINU JOSEPH	9400740116
210055	JOBI C G	9446625311
689264	NEMESH K	9809075919
233475	SREEJA R NAIR	9495452315
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