Higher Secondary First Year examination June 2022
Computer Application – COM

Part I
Answer any 5 questions from 1 to 7. 1 Mark each

Qn	Answers		Marks
1	Processed data is known as Information		1
2	Fullform of DBMS : Database Management System		1
3	Runtime error occurs in execution stage of programming		1
4	Ternary oerator in C++ is ?: or Conditional Operator		1
5	If no match is found the defaut block in switch statement is executed		1
6	Expand the term FTP. File Transfer Protocol		1
7	The protocol for internet communication is TCP/IP		1

Part II
Answer any 9 questions from 8 to 19. 2 Marks each

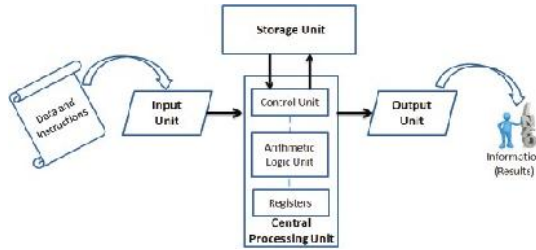| Qn	Answers		Marks
8	Write the MSD and LSD in the number $(5876)_{10}$		
	MSD 5	1	2
	LSD 6	1	
9	List any two input and output devices each		
	Input : Keyboard,Mouse,Mic, Scanner, Joystick (Any two input device names)	1	2
	Output : Monitor, Printer, Projector, Speaker (Any two output device names)	1	
10	Mention any two functions of Operating System		
	DeviceManagement, Process Management, Memory Management, File Management (Any two valid points)	1 x 2	2
11	Which are the types of documentation in programming?		
	Internal Documentation / Comments	1	2
	External Documentation / Separate File	1	
12	Arrange the following fundamental data types in the ascending order of memmory size. char, int, void, double		
	void, char, int, double		2
13	Give the output of the following		
	int a, b=5;		
	a = b++;		
	cout<<a<<'\t'<<b;		
	Answer : 5 6		2
14	What is cascading of I/O operator? Give one example.		
	Using multiple input or output operators in the same statement.	1	2
	eg: cin>>a>>b>>c; or cout<<a<<b<<c;	1	
15	Define nested if.		
	An if statement inside another if statement/ correct synatx / correct example		2
16	List the names of any two services in internet.		
	www, e-mail, search engine,social media (any two points)	1 x 2	2
17	Define the following terms		
	(a)Cookies		
	(b) Firewall		
	Cookies are small text files stored in our computer when we use internet.	1	2
	A firewall is a system that provides security to the computer in a network	1	
18	Write any two e - Learning tool		
	e-Text, e- Book Reader, Online Chat, Educational tv channel, e-Content	1 x 2	2
19	What is EPS? Give one example.		
	A system of financial exchange between buyers and sellers in an online environment is called an **Electronic Payment System (EPS)**	1	2

	Eg: credit card, debit card, smart card etc (name of any one EPS)	1	

Part III

Answer any 9 questions from 20 to 32. 3 Marks each

20	Name 3 methods of representing integer numbers in computer memory		
	Sign and magnitude, one's complement, two's complement	1 x3	3
21	Draw a figure showing functional units of computer system.		

			3

22	Categorise the softwares given below into operating system, application software and utility software . Linux , Tally, WinZip, MS Word, Windows, OpenOffice Calc		
	Operating System : Linux, Windows		
	Application Software : Tally, MS Word, OpenOffice Calc		3
	Utility Software : WinZip		
23	Draw any three flowchart symbols		

		1 x3	3

24	What is meant by Tokens? Name any two tokens in C++.		
	Tokens are the fundamental building blocks of the program.	1.5	3
	Keywords, Identifiers, Literals, Punctuators,Operators (any two)	1.5	
25	Which are the logical operatots in C++		
	&& - AND,		- OR, ! - NOT	1 x 3	3
26	Write three different methods to increment the value of x by 1		
	x++, ++x, x+=1, x=x+1	1 x 3	3
27	Identify the errors in the program		

```
#include<iostream>
using namespace;
int Main()
{
int a,b,c;
cin<<a>>b;
c=a%b;
cout<<c;
}
```

	using namespace; std missing. [correct form: using namespace std;]	1	
	Main() : syntax error , letter 'm' must be in lower case. [correct form: main()]	1	3
	cin<<a>>b; : syntax error. Used output operator in cin statement.[cin>>a>>b;]	1	
28	which are the three loops in C++		
	for, while, do – while	1 x 3	3
29	Classify the following networks based on area covered		
	(a) Your home computer connected to a printer		
	(b) Cable TV network in a city		
	(c) Compter network at your school lab		

	(a) PAN	1	
	(b)MAN	1	3
	(c)LAN	1	
30	(a)Write names of any two data terminal equipments.		
	(b) Write the uses of them		
	Modem, Multiplexer	1	
	Modem : A modem is an electronic device used for communication between computers through telephone lines. It converts digital signals to analog (modulation) and analog signals to digital(demodulation) **Multiplexer** : sends many signals over one medium at the same time and then recovers separate signals at the destination.	2	3
31	Write any three examples of various types of social media on internet.		
	Internet forums, Social blogs, Micro blogs, Wikis , Social networks, Content Community (any three examples)	1 x 3	3
32	Write names of any three ICT enabled services		
	Business Process Outsourcing(BPO), Knowledge Process Outsourcing(KPO), Call Center, Tele Conferencing, Video Conferencing (any three)	1 x 3	3
	Part IV		
	Answer any 2 questions from 33 to 36. 5 Marks each		
33	What is e-waste? Mention 4 methods of e-waste disposal methods.		
	The damaged electronic devices are known e-Waste. It contains toxic substances which can cause health problems.	3	5
	Reuse,**Incineration**, **Recycling of e-Waste**, **Land filling**	2	
34	(a) Define the following terms 1. algorithm2. Translation 3. debugging		
	(b) Write two advantages drawing flow chart.		
	(a) 1. Step by step proedure for solving a problem.	1	
	2. Converting high level language code to machine language	1	
	3. Finding and correcting errors in the program	1	5
	(b) Better communication, Effective analysis, Effective synthesis, Efficient coding (with explanation)	2	
35	(a) Write example for exit control loop in C++		
	(b)Write the four parts of a loop		
	(a)do --- while loop	1	
	(b) initialisation, test expression, body of loop, update statement	4	5
36	(a) what is the difference between router and gateway?		
	(b) write two advantages of computer network		
	(a)**Router** is a device that can interconnect two networks of the same type using the same protocol.**Gateway** is a device that can interconnect two different networks having different protocols.	2	
	(b)**Data communication is possible ,Resource Sharing, Reliability, Scalability, Price –Performance ratio (Explain any three poins)**	3	5

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