| | 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 | | |
| 8 | Write the MSD and LSD in the number (5876) ¹⁰ | | |
| | MSD 5 | 1 | |
| | LSD 6 | 1 | 2 |
| 9 | List any two input and output devices each | - | |
| - | Input : Keyboard, Mouse, Mic, Scanner, Joystick (Any two input device names) | 1 | |
| | Output : Monitor, Printer, Projector, Speaker (Any two output device names) | 1 | 2 |
| 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 | |
| | External Documentation / Separate File | 1 | 2 |
| 12 | Arrange the following fundamental data types in the ascending order of memmory | - | |
| 14 | 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;< td=""><td></td><td></td></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;< td=""><td>1</td><td></td></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 | _ |
| | A firewall is a system that provides security to the computer in a network | 1 | 2 |
| 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 |

| Part III Part III 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 21 Draw a figure showing functional units of computer system. 1 Image: a system in the program 3 Categorise the softwares given below into operating system, application software 3 22 And utility software. Linux, Tally, WinZip, MS Word, Windows, OpenOffice Calc 3 Operating System : Linux, WinZip 3 23 Draw any three flowchart symbols 1 1 seame and the program. 1.5 34 What is meant by Tokens? Name any two tokens in C++. Tokens are the fundamental building blocks of the program. 1.5 25 Which are the logical operators in C++ 1 Keywords, Identifiers, Literals, Punctuators, Operators (any two) 1.5 26 Write three different methods to increment the value of x by 1 1 st++, ++x, x+=1, x=x+1 1 x 3 3 27 Identify the errors in the program 1 1 st+., +xx, x+=1, x=x+1 1 x 3 3 | | Example and the send among and the (many of any one EDC) | | |
|---|------|---|-------|---|
| Answer any 9 questions from 20 to 32. 3 Marks each 20 Name 3 methods of representing integer numbers in computer memory 5ign and magnitude, one's complement, two's complement 1 x3 3 21 Draw a figure showing functional units of computer system. 3 and magnitude, one's complement, two's complement and magnitude, one's complement, two's complement and magnitude, one's complement, two's complement and magnitude, one's complement and magnitude, one's complement and utility software. Linux, Tally, WinZip, MS Word, Windows, OpenOffice Calc Operating System : Linux, Windows Application Software : Tally, MS Word, OpenOffice Calc Operating System : Linux, Windows 23 Draw any three flowchart symbols It was are the fundamental building blocks of the program. 1.5 Keywords, Identifiers, Literals, Punctuators, Operators (any two) 1 x 3 24 What is meant by Tokens? Name any two tokens in C++. Tokens are the fundamental building blocks of the program. 1.5 Style With the errors in the program. 4********** | | Eg: credit card, debit card, smart card etc (name of any one EPS) | 1 | |
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| 29 Classify the following networks based on area covered | | - | 1 x 3 | 3 |
| (a) Your home computer connected to a printer (b) Cable TV network in a city | 29 | | 1 7 0 | U |
| (b) Cable TV network in a city | | | | |
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| | (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 | 2 | |
| | (modulation) and analog signals to digital(demodulation) <u>Multiplexer</u> : | | 3 |
| | sends many signals over one medium at the same time and then recovers separate | | |
| | signals at the destination. | | |
| 31 | Write any three examples of various types of social media on internet. | | |
| 01 | 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 |
| | | | 5 |
| 0.4 | 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 | 2 | |
| 25 | (with explanation) | | |
| 39 | (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 | 1 | 5 |
| 36 | (a) what is the difference between router and gateway? | 4 | |
| - 50 | (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 networks of the same type using | | |
| | | 2 | |
| | networks having different protocols. | | 5 |
| | | | |
| | (b)Data communication is possible ,Resource Sharing, Reliability, | 3 | |
| | Scalability, Price –Performance ratio (Explain any three poins) | | |

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