

Computer Science 9th Class English Medium Online Test

Sr	Questions	Answers Choice
1	Which protocol is used for reliable data transfer in the TCP/IP mode?	A. HTTP B. FTP C. UDP D. TCP
2	What is the key feature of cloud computing?	A. Local Storage B. Standalone operation C. Manual backups D. Remote access
3	What is the major ethical concern associated with the use of deep fakes.	A. Enhancing security measures B. Deceiving people especially in politics or finance C. Creating realistic and factual video D. Improving information accuracy
4	Which of the following is an example of interval scaled attribute.	A. Age B. Weight C. Temperature in Celsius D. Height
5	Which layer is about the physical medium used in communication, like cabling etc.	A. Application layer B. Internet C. Physical D. Postal layer
6	----- is a device that receives message. It is also known as sink	A. computers B. Computer Networks C. Rules D. Receiver
7	In which topology a computer can send data to its immediate neighbor	A. Machine B. Topology C. Ring D. Star
8	Virtual assistant that belongs to Apple Inc. is	A. Alexa B. Siri C. Google assistant D. Cortana
9	In software system, modularity refers to	A. Using external libraries in a project B. Breaking a system into smaller manageable parts C. Writing reusable code D. Testing individual components separately
10	1 MB =bytes	A. (1024) ⁵ bytes B. (1024) KB or (1,024) ² C. 3000 D. 400
11	Which protocol is responsible for assigning IP addresses to devices on a network?	A. DNS (Domain Name system) B. DHCP (Dynamic Host Configuration Protocol) C. TCP (Transmission Control Protocol) D. ARP (Address Resolution Protocol)
12	Basic Arithmetic Operation like addition subtraction are performed by?	A. ALU B. CU C. UDP D. All of these
13	Which of the following is an example of application software.	A. BIOS B. Disk cleanup C. Microsoft word D. Device Manager
		A. Artistic creativity

14	Which is one of the key applications of big data in business.	B. Weather forecasting C. Customer behavior analysis D. Social media management
15	Which of the following best describes computational thinking.	A. Breaking down a problem into smaller, manageable parts B. The process of performing mathematical calculation C. Creating hardware solutions for computing D. Writing complex algorithms only
16	What role do device drivers play in a computer system.	A. Enhance Graphic performance B. Create presentations C. Manage Files D. Facilitate communication between hardware devices and the operating system
17	Which layer of the OSI is responsible for node-to-node data transfer and error detection?	A. Physical Layer B. Data link layer C. Network layer D. Transport Layer
18	What is the key difference between natural and artificial systems?	A. Natural systems are created by humans, while artificial systems exist naturally B. Natural systems exist naturally, while artificial systems are man-made C. Natural systems are always simple while artificial systems are complex. D. Natural systems require programming, while artificial systems do not.
19	The first computer virus was created in ?	A. 1971 B. 1972 C. 1973 D. 1974
20	Which protocol is used to send emails over the internet?	A. POP3 (Post Office Protocol 3) B. FTP (File Transfer Protocol) C. SMTP (Simple Mail Transfer Protocol) D. IMAP (Internet Message Access Protocol)
21	The term Hypertext is used due to the special text in a webpage called.	A. Body B. Hyperlink C. Link D. Linkage
22	Which layer of the OSI model is responsible for end-to-end communication and error handling?	A. Network layer B. Data Link Layer C. Transport Layer D. Application Layer
23	Which of the following is an example of a digital tool for creating and editing documents online.	A. Survey Monkey B. Zen Desk C. SE Mursh D. Google Docs
24	Which protocol is used to convert domain names into IP addresses?	A. DHCP B. DNS C. ARP D. IP
25	What is the purpose of privacy settings on digital platforms.	A. To make your posts public B. To control who can see your information and interact with you online C. To increase the number of followers D. To automatically share your information.
26	Which signals are in discrete form?	A. Analog B. Digital C. Both a and b D. None of these
27	HTML 5 was created in?	A. 2013 B. 2015 C. 2014 D. 2016
28	What is the key difference between explainable and unexplainable AI models	A. The training data used B. The performance of the model C. The ability to understand the

28	What is the key difference between explainable and unexplainable AI models.	<p>C. The ability to understand the decision making process</p> <p>D. The complexity of the model</p>
29	Which industry heavily relies on IoT for supply chain optimization and resource allocation?	<p>A. Healthcare</p> <p>B. Finance</p> <p>C. Transportation</p> <p>D. Retail</p>
30	Extended ASCII includes.....characters?	<p>A. 64</p> <p>B. 256</p> <p>C. 128</p> <p>D. None of these</p>
31	Which method of backup allows you to restore the system to a specific point in time.	<p>A. Cloud sync</p> <p>B. Full backup</p> <p>C. System restore point</p> <p>D. Incremental backup</p>
32	Which type of backup creates a complete copy of all data, regardless of previous backups?	<p>A. Differential Backup</p> <p>B. Incremental backup</p> <p>C. Full backup</p> <p>D. Snapshot Backup</p>
33	Which Sustainable development Goal focuses on affordable and clean energy.	<p>A. SDG 5</p> <p>B. SDG 7</p> <p>C. SDG 12</p> <p>D. SDG 17</p>
34	What is a potential disadvantage of AI according to the information provided?	<p>A. Lowered Costs</p> <p>B. Reduced job loss</p> <p>C. Creativity limitations</p> <p>D. Enhanced emotional capabilities</p>
35	What is the "3-2-1 backup rule?"	<p>A. 3 backups, 2 devices, 1 recovery option</p> <p>B. 3 types of backup, 2 administrators, 1 cloud service</p> <p>C. 2 copies of data, 2 different storage types 1 offsite copy</p> <p>D. 3 files, 2 backups, 1 test restore</p>
36	Which backup type only saves files that have changed since the last backup?	<p>A. Cloud backup</p> <p>B. Full backup</p> <p>C. Incremental Backup</p> <p>D. Differential Backup</p>
37	How many types of data analysis are available?	<p>A. 1</p> <p>B. 2</p> <p>C. 3</p> <p>D. 4</p>
38	Which topology connects all devices using point-to-point connections via cables to a central point is known as a Hub or Switch	<p>A. Ring</p> <p>B. Mesh</p> <p>C. Topology</p> <p>D. Star</p>
39	Which of the following is a key advantage of Unicode over ASCII?	<p>A. It uses fewer bits per character</p> <p>B. It is backward compatible with binary</p> <p>C. It is specific to the English language</p> <p>D. It can represent characters from many different languages</p>
40	Which type of network spans a large geographic area, such as a country or the world.	<p>A. LAN</p> <p>B. MAN</p> <p>C. PAN</p> <p>D. WAN</p>
41	What is the role of AI in drug discovery in the healthcare industry.	<p>A. AI accelerates drug discovery through predictive modeling</p> <p>B. AI enhances medical imaging for diagnoses</p> <p>C. AI assists in remote patient monitoring</p> <p>D. AI streamlines medical billing processes</p>
42	HTML is a computer language which is used to create.	<p>A. Browser</p> <p>B. a web page</p> <p>C. Explorer</p> <p>D. Programming</p>
43	What is decomposition in computational thinking?	<p>A. Ignoring unnecessary detail and focusing only on key aspects</p> <p>B. Creating a set of instructions to follow</p> <p>C. Breaking a complex problem into</p>

		<p>smaller easier to solve parts</p> <p>D. Identifying pattern and similarities between problems</p>
44	Why is problem decomposition important in computational thinking.	<p>A. It is only useful for simple problems.</p> <p>B. It complicates problems by adding more details</p> <p>C. It eliminates the need for solving the problem</p> <p>D. It simplifies problems by breaking them down into smaller, more manageable parts</p>
45	What concept does the theory of system aim to understand.	<p>A. Hardware design</p> <p>B. System interactions and development over time.</p> <p>C. Software applications</p> <p>D. Network security</p>
46	Which HTML attribute is used to define inline styles.	<p>A. Style</p> <p>B. Class</p> <p>C. Font</p> <p>D. None of these</p>
47	Which of the following is not a subfield of AI?	<p>A. Machine learning</p> <p>B. Natural Language Processing</p> <p>C. Robotics</p> <p>D. Computer Vision</p>
48	How many properties of computational thinking are available?	<p>A. 4</p> <p>B. 3</p> <p>C. 2</p> <p>D. 1</p>
49	What is a key characteristic of entrepreneurs.	<p>A. Avoiding risks</p> <p>B. Following established methods</p> <p>C. Innovation</p> <p>D. Seeking job security</p>
50	Hotmail was created by?	<p>A. Sabeer Bhatia</p> <p>B. Jack Smith</p> <p>C. Both a and b</p> <p>D. None of these</p>
51	What is the primary purpose of creating a business plan?	<p>A. To outline strategies for growth</p> <p>B. To attract investors</p> <p>C. To study market trends</p> <p>D. To implement digital marketing strategies</p>
52	Which component of the computer system is responsible for temporarily storing data and instructions while the CPU processes them?	<p>A. RAM (Random Access Memory)</p> <p>B. ROM (Read-only Memory)</p> <p>C. Hard Disk Drive (HDD)</p> <p>D. Graphics Processing Unit (GPU)</p>
53	Which of the following is not one of the characteristics of big data.	<p>A. Veracity</p> <p>B. Validity</p> <p>C. Volume</p> <p>D. Velocity</p>
54	In a half-adder circuit, the carry is generated by which operation?	<p>A. XOR operation</p> <p>B. AND Operation</p> <p>C. OR Operation</p> <p>D. NOT Operation</p>
55	What is the primary purpose of data visualization.	<p>A. To hide complex data</p> <p>B. To make data easier to understand by turning it into pictures</p> <p>C. To generate random numbers</p> <p>D. To convert text into data</p>
56	Which logic gate outputs true only if both inputs are true?	<p>A. OR gate</p> <p>B. AND gate</p> <p>C. XOR gate</p> <p>D. NOT gate</p>
57	What is the function of the Domain Name System (DNS)?	<p>A. Assign IP addresses dynamically</p> <p>B. Monitor network traffic</p> <p>C. Translate domain names to IP addresses</p> <p>D. Secure data communication</p>
58	ASCII stands for	<p>A. American Standard Code</p> <p>B. Standard Institute</p> <p>C. Information code</p> <p>D. American Standard Code for Information interchange.</p>

59	Why is it important to regularly review your account activity.	<p>A. To download new application</p> <p>B. To check the number of friends you have</p> <p>C. To look for unusual activity and ensure your accounts are secure</p> <p>D. To update your contact information</p>
60	Which of the following is a key characteristic of the Von Neumann architecture?	<p>A. separate memory for instructions and data</p> <p>B. Instructions and data are data in the same memory</p> <p>C. Data is stored in a separate storage unit from instructions</p> <p>D. No need for a central processing Unit (CPU)</p>
61	What is the primary purpose of the DNS (Domain Name System) Protocol?	<p>A. To assign IP addresses to devices</p> <p>B. To map domain names to IP Address</p> <p>C. To ensure secure transmission of data</p> <p>D. To transfer files over the internet.</p>
62	Which of the following describes the Von Neumann architecture's main characteristic?	<p>A. Separate memory for data and instructions</p> <p>B. Parallel execution of instructions</p> <p>C. Single memory store for both program instructions and data</p> <p>D. Multiple CPUs for different tasks</p>
63	In Bus topology single common cable is also called.	<p>A. Hard</p> <p>B. Normal</p> <p>C. Backbone</p> <p>D. simple</p>
64	Which of the following is an example of identifying a problem in troubleshooting.	<p>A. Testing a laptop battery by plugging in the power cord</p> <p>B. Noticing that a laptop does not turn on when the power button is pressed</p> <p>C. Witting down that a laptop battery was replaced</p> <p>D. Coming up with a plan to replace a laptop battery</p>
65	Which of the following is an example of qualitative data?	<p>A. Temperature readings in degrees Celsius</p> <p>B. Number of students in a class</p> <p>C. Favourite ice cream flavours</p> <p>D. Test scores out of 100</p>
66	How many primary components of CSS are available.	<p>A. 4</p> <p>B. 3</p> <p>C. 5</p> <p>D. 2</p>
67	Digital system depends on?	<p>A. 10</p> <p>B. 00</p> <p>C. 11</p> <p>D. None of these</p>
68	Which is the physical arrangement of devices and connecting lines?	<p>A. Procedure</p> <p>B. Network topology</p> <p>C. Computer</p> <p>D. Network</p>
69	Which is used to improve the visual appearance of webpages.	<p>A. HTML 2.0</p> <p>B. HTML</p> <p>C. HTML 3.2</p> <p>D. CSS</p>
70	In Von Neumann architecture, which component is responsible for controlling the flow of instructions and data?	<p>A. Arithmetic Logic Unit (ALU)</p> <p>B. Control Unit (CU)</p> <p>C. Cache Memory</p> <p>D. Input/Output devices</p>
71	What does data encryption do?	<p>A. It automatically deletes old data</p> <p>B. It speeds up internet connection</p> <p>C. It converts data into a code to prevent unauthorized access</p> <p>D. It makes data available to everyone online</p>
72	What is the first step of data science process.	<p>A. Understanding the problem</p> <p>B. Data Cleaning</p> <p>C. Data analysis</p> <p>D. Data Collection</p>

73	Which systems involve the mind and behavior?	A. Artificial B. Chemical C. Psychological D. Biological
74	Dry running a flowchart involves	A. Writing the code in a programming language B. Testing the flowchart with sample data C. Converting the flowchart into pseudocode D. Ignoring the flowchart details
75	What types of network topology connect all devices to a single central hub?	A. Star B. Mesh C. Bus D. Ring
76	What does HTML stand for?	A. Hyper text and Markup level B. Hyper text and making Language C. Hyper text and markup language D. None of these
77	Which of the following is an example of ensuring data integrity through troubleshooting?	A. Updating the operating system regularly B. Identifying a software bug that causes incorrect database results. C. Using a cooling pad to prevent laptop overheating D. Updating the operating system regularly
78	Which innovation enables virtual meetings.	A. Text editors B. Presentation tools C. Spreadsheet D. Video conferencing
79	Which is a group of eight bits, enough space to store a single ASCII character?	A. Byte B. Bit C. GB D. KB
80	The smallest amount of data to be stored in a computer's memory is a 0 or 1 is called	A. Byte B. Bit C. GB D. KB
81	A Number system is the system for representation ofdata.	A. Truth B. Boolean C. Value D. Numeric
82	How can you verify the credibility of information found online.	A. By checking the number of ads on the website B. By looking at the website's design C. By the website's popularity D. By using multiple reputable sources and checking the author's credential
83	What role does the Operating system (OS) play in a computer?	A. It performs calculations and executes instructions B. It temporarily stores data and instructions for the CPU C. It receives input from interface components and decides what to do with it. D. It provides long-term storage of data and software
84	----- is the process of finding and removing errors?	A. Bug B. CSS C. Bugging D. Debugging
85	Which command is used to check network connectivity between two systems.	A. Tracert B. Ping C. Ipconfig D. Netstat
86	How many bits are used in the standard ASCII encoding?	A. 7 bits B. 8 bits C. 16 bits D. 32 bits
87	Which systems consist of living organisms?	A. Artificial B. Chemical C. Psychological D. Biological

D. Biological

88	What does troubleshooting help prevent by quickly identifying and resolving issues?	A. Downtime and lost productivity B. The need for regular maintenances C. The need for professional help D. the need for software updates
89	What is a key aspect of data ethics.	A. Using data any way you like B. Ignoring data security C. Transparency respect for privacy and accountability in data usage D. Collecting as much data as possible
90	In computer vision which task involves identifying and locating objects within an image?	A. Speech recognition B. Image classification C. Language translation D. Object detection
91	What is the primary purpose of data preprocessing in big data analytics.	A. To increase data storage costs B. To prepare raw data for analysis C. To eliminate the need for data visualization D. To reduce the volume of data
92	Webpages can be created and modified by using.	A. Notepad++ B. Notepad C. Text Edit D. All of these
93	The word "entrepreneur" comes from a.....word.	A. English B. Spanish C. French D. None of these
94	CU stand for.....	A. Circuitry Unit B. Central Unit C. Control Unit D. None of these
95	Which of the following describes a common application of AI in customer service.	A. AI predicting financial trends B. AI generating automated responses through chatbots C. AI analyzing satellite images D. AI creating personalized advertisements
96	In a ring topology, a ring can be unidirectional or.	A. Directional B. Similar C. Bidirectional D. Main
97	How many components of data communication?	A. 6 B. 5 C. 7 D. 8
98	What are the basic components of a system?	A. Users, hardware, software B. Objectives, components, environment, communication C. Input, Output, processes D. Sensors, actuators, controllers
99	In IPV 6 there are.....group separated by	A. 1 B. 5 C. 2 D. 8
100	What is the key concern associated with algorithmic bias in AI powered decision making processes.	A. Lack of transparency B. Perpetuation of existing social biases C. Reduced accuracy of the model D. All of the above
101	Why is effective troubleshooting important for maintaining systems?	A. It helps save money on repairs B. It allows for more frequent system updates C. It ensures systems operate smoothly and efficiently D. It prevents the need for professional help
102	Which contain start tag, an end tag and contents between them	A. Double B. triple C. Paired tags D. Unpaired
103	Which of the following is a disadvantage of digital enterprise systems?	A. Flexibility and scalability B. Dependency on physical infrastructure

103	Which of the following is a key advantage of digital entrepreneurship	infrastructure C. Limited reach and market access D. Higher barriers to entry
104	What is the primary goal of software design in system development?	A. Testing the software B. Defining the system architectures C. Writing code D. Minimizing system errors
105	Which of the following is NOT one of the sustainable Development Goals (SDGs)?	A. Gender Equality B. Clean Water and Sanitation C. Poverty Reduction D. Energy Efficiency
106	How does the Von Neumann architecture differ from the Harvard architecture?	A. Von Neumann has separate memory for data and instructions, while Harvard shares the same memory. B. Von Neumann stores data and instructions in the same memory C. Von Neumann has no control unit while Harvard does D. Von Neumann is used in modern processors, while Harvard is outdated
107	What is the dual of Boolean expression $A \cdot 0 = 0$?	A. $A + 1 = 1$ B. $A + 0 = A$ C. $A \cdot 1 = A$ D. $A \cdot 0 = 0$
108	What is the primary function of an operating system.	A. To create documents B. To perform calculations C. To design graphics D. To manage hardware resources and provide a user interface
109	Which of the following is NOT a backup storage option?	A. Local disk B. Word processor C. Cloud storage D. External hard drive
110	Which device connects two or more networks and routes data between them?	A. Switch B. Router C. Modem D. Bridge
111	Which attribute is used with the img tag to display the text if an image could not load in a browser?	A. Number B. Row C. alt D. col
112	What is the example of continuous data?	A. Number of cars in a parking lot B. Height of students in centimetres C. types of fruits D. Shirt sizes
113	Customer satisfaction levels such as satisfied, dissatisfied and neutral are examples of data type.	A. Discrete data B. Numerical data C. Ordinal data D. Continuous data
114	Which tool is commonly used for optimizing website content for search engines?	A. Hootsuite B. Yoast SEO C. Shopify D. PayPal
115	Which method of data transmission uses a dedicated communication path.	A. Half Duplex B. Circuit Switching C. Packet Switching D. Full Duplex
116	Bit stands for?	A. Binary integer B. Binary Value C. Binary Number D. Binary digit
117	What is software piracy.	A. Sharing software legally with friends B. Updating software regularly C. the illegal copying, distribution or use of software D. Buying software from an official source
118	How does data science add value to big data.	A. By creating more data B. By extracting insights and predictions from data C. By making data storage more efficient

		efficient D. By ensuring data quality and consistency
119	HTML 2.0 was created in.....?	A. 1995 B. 1996 C. 1997 D. 1998
120	Which is a graphical representation of an algorithm?	A. Matrix B. Graph C. Flowchart D. Solution
121	Who is the founder of HTML?	A. Jack B. Tim Berners Lee C. Jeff Bezos D. Charles Babbage
122	Which of the following is a storage device used to permanently store data in a computer	A. Random Access Memory(RAM) B. Cache Memory C. Hard Disk Drive(HDD) D. Arithmetic logic Unit(ALU)
123	Which one of the example of Digital Signal?	A. Binary B. Sound Wave C. 11 D. 00
124	The technology concerned with training the computer to understand spoken and written words and to take action is known as.	A. Virtual training B. Natural language processing C. Virtual Assistant D. Language analysis
125	Which Protocol ensures reliable data transmission between two devices over the Internet.	A. UDP (User Datagram Protocol) B. TCP (Transmission Control Protocol) C. IP (Internet Protocol) D. ICMP (Internet Control Message Protocol)
126	Which of the following is the first step in troubleshooting a system issue?	A. Replace hardware components B. Identify the problem C. Reinstall the operating system D. Run a system update
127	Why is troubleshooting important in computing systems?	A. It ensures hardware components are always up to date B. It prevents the need for data backups C. It eliminates the need for software updates D. It helps keep systems running smoothly and securely
128	Which of the following is an example of a hybrid system (combination of natural and artificial system)?	A. Human respiratory system B. A weather forecasting system C. A dam controlling river water flow D. A simple pendulum
129	Which tool is specifically designed for creating detailed and interactive visualizations?	A. Tableau B. Power point C. Google Sheets D. Microsoft Excel
130	Which of the following is an example of pattern recognition in computational thinking?	A. solving problems without breaking them into smaller parts B. Designing a new algorithm for every problem C. Identifying trends in data to predict future outcomes D. Writing a program in multiple programming languages.
131	After implementing a solution what is the next step in the troubleshooting process?	A. Document Findings, Actions, and outcomes B. Establish a plan of action to resolve the problem C. Verify full system functionality D. Test the theory to determine the cause.
132	Which tool can be used to create surveys online?	A. Microsoft Word B. Excel spreadsheets C. Adobe Photoshop D. Google Forms
133	In Binary 0s represents.....?	A. ON B. OFF C. ON

		<p>C. OR</p> <p>D. None of these</p>
134	What should you do if you receive an email from an unknown sender asking for personal information.	<p>A. Provide the information requested</p> <p>B. Forward the email to your friends</p> <p>C. Ignore or delete the email</p> <p>D. Open the email and click on any links</p>
135	MP3 is a (an)----- file format?	<p>A. Video</p> <p>B. Image</p> <p>C. Audio</p> <p>D. None of these</p>
136	Which type of software would you use to design a logo?	<p>A. Utility software</p> <p>B. Graphic design software</p> <p>C. Operating system</p> <p>D. Spreadsheet software</p>
137	Comparison of two or more values are performed in?	<p>A. CU</p> <p>B. UDP</p> <p>C. LU</p> <p>D. None of these</p>
138	There are..... of heading in HTML document.	<p>A. 4</p> <p>B. 5</p> <p>C. 6</p> <p>D. 1</p>
139	In digital system 1 represents?	<p>A. ON</p> <p>B. OFF</p> <p>C. OF</p> <p>D. All of these</p>
140	Which term describes software that is designed to adapt to changes in user needs?	<p>A. Portable software</p> <p>B. Flexible software</p> <p>C. Robust software</p> <p>D. Configurable software</p>
141	OR operation yields 1 output when at least of.....of the input is true.	<p>A. 0</p> <p>B. 00</p> <p>C. 1</p> <p>D. 10</p>
142	What does "version control" in software development refer to?	<p>A. testing software before release</p> <p>B. Writing the initial code for a software system</p> <p>C. Managing changes to source code over time</p> <p>D. Monitoring system uptime and performance</p>
143	Which term refers to the process of restoring data from a backup?	<p>A. Data Retrieval</p> <p>B. Data Validation</p> <p>C. Data Restoration</p> <p>D. Data Synchronization</p>
144	What is the primary function of data collection in the context of data science?	<p>A. Data analysis</p> <p>B. Data retrieval</p> <p>C. Data generation</p> <p>D. Data Storage</p>
145	What is the main purpose of data collection ?	<p>A. to delete old data</p> <p>B. To format text documents</p> <p>C. To gather information to answer questions or make decisions</p> <p>D. to create random numbers</p>
146	Which of the following best describes an artificial system?	<p>A. A system that exists naturally without human intervention</p> <p>B. A system that is created, designed and controlled by humans</p> <p>C. A system that cannot be modified once created</p> <p>D. A system that always operates automatically</p>
147	In the context of big data what does the 3 Vs refer to?	<p>A. Variety, velocity, veracity</p> <p>B. Variety, velocity, volume</p> <p>C. Volume, value, velocity</p> <p>D. Validity, variety, volume</p>
148	Why is documenting findings, actions and outcomes important in troubleshooting?	<p>A. It helps solve problems faster</p> <p>B. It allows for more efficient testing</p> <p>C. It provides a record for future reference</p> <p>D. It ensures the solution is implemented correctly</p>

149	Instant answers to website visitors questions through text or voice interaction are provided by.	A. Robot B. Cloud computing C. Chatbot D. Expert system
150	Which symbol in the flowchart is used to either start or end the flowchart.	A. Process B. Decision C. Connector D. Terminal
151	Which Property is used to change the background color in CSS?	A. bgcolor B. background C. background color D. color
152	Which of the following protocols is used to transfer web pages from a web server in a web browser?	A. FTP (File Transfer Protocol) B. HTTP (Hypertext Transfer Protocol) C. SMTP (Simple Mail Transfer Protocol) D. SNMP (Simple Network Management Protocol)
153	In an RGB color model, what does RGB stand for?	A. Red, Green, Brown B. Red, Gray, Black C. Red, Green, Blue D. Right, Green, Blue
154	What is a disadvantage of the Von Neumann architecture?	A. Complex design due to separate memory spaces B. Difficult to modify programs stored in memory C. Bottleneck due to single memory space for instructions and data D. Lack of flexibility in executing instructions
155	A website consists of.	A. Web pages B. Pages C. Web D. Web site
156	What is a significant benefit of blockchain technology.	A. Secure transactions B. Centralized control C. Slow processing D. Manual verification
157	Which of the following components is NOT a part of the Von Neumann architecture?	A. Central Processing Unit (CPU) B. Input/Output devices C. Control Unit (CU) D. Graphics Processing Unit (GPU)
158	What are the common tasks you can perform using word processing software?	A. Organize and analyze data B. Create and edit text documents C. Manage hardware resources D. Enhance system performance
159	What is the purpose of establishing a plan of action in troubleshooting?	A. To identify the problem B. To decide on the steps needed to resolve the issue C. To verify full system functionality D. To determine the cause of the problem
160	Why is it important to use strong unique passwords.	A. To make your accounts easy to hack B. To help others guess your password C. To avoid installing software updates D. To make it harder for someone to guess your password and access your accounts
161	What is one of the fundamental concepts of any system.	A. Its size B. Its Objective C. Its age D. Its Price
162	Brain of computer is.....?	A. RAM B. UDP C. CPU D. ROM
163	Which number system has base 16?	A. Hexadecimal B. Decimal C. Octal D. Binary

164	Sustainable Development Goals are a set of.....global , goals established by.	A. 15 B. 10 C. 12 D. 17
165	Which of the following is NOT a technique for identifying market needs.	A. Brainstorming B. Observation C. Market Research D. Surveys and Questionnaires
166	What is encapsulation in the context of network communication?	A. Monitoring Network traffic B. Translating domain names to IP addresses C. Wrapping data with protocol information D. Converting data into a secure format
167	1 KB=bytes	A. 200 B. 400 C. 300 D. 1024
168	What does the volume characteristic of big data refer to.	A. The speed at which data is generated B. The different forms data can take C. The sheer amount of data being collected D. The way data is processed
169	How does AI contribute to improving healthcare, as mentioned in the information	A. AI prevents doctors from making any errors during surgeries B. AI has no influence on healthcare advancement C. AI helps in making new discoveries such as detecting breast cancer earlier D. AI is used solely for automating repetitive tasks in healthcare.
170	Which step in computational thinking involves creating a sequence of steps to solve a problem.	A. Pattern recognition B. Abstraction C. Decomposition D. Algorithmic design
171	Ordered list each item of the list generally starts with a	A. Bullet B. colon C. Number D. Character
172	What is the primary purpose of data visualization in data science?	A. Data Collection B. Data modeling C. Extracting insights D. Data exploration
173	The word "entrepreneur" comes from a French word which means.....?	A. Overflow B. Overtake C. Undertake D. None of these
174	Which term refers to the process of ignoring the detail to focus on the main idea?	A. Decomposition B. algorithm design C. Abstraction D. Decomposition
175	The AI tool used for correcting spelling and grammar mistakes is.	A. Grammarly B. ChatGPT C. Lovo AI D. Virtual assistant
176	Which of the following is an application of IoT in the transportation domain.	A. Smart traffic management B. Vehicle to vehicle communication C. Predictive maintenance of vehicles D. All of the above
177	----- is the graphical representation of data through use of common charts, plots, infographics and animations.	A. Data cleaning B. Missing values C. Data visualization D. Data hiding
178	What does DAC represents?	A. Analog Digital Converter B. Analog Digital Conversion C. Digital analog conversion D. All of these
		A. Sharing personal information like

179	What is the important aspect of responsible use of social media.	your home address B. Posting photos without considering privacy settings C. Ignoring privacy settings D. Being respectful and avoiding sharing sensitive information publicly
180	Which of the following is NOT a common troubleshooting tool?	A. Disk Cleanup B. System Restore C. Word Processor D. Debugger
181	What does two-factor authentication (2FA) do?	A. It makes your password easier to guess B. It reduces the need for software updates C. It adds an extra layer of security by requiring a second form of verification D. It adds an extra layer of security by requiring a second form of verification
182 tag is used to display data in tabular form	A. Table B. td C. tr D. th
183	Which of the following is NOT a characteristic of a software system?	A. Scalability B. Reliability C. Tangibility D. Maintainability
184	Which of the following transports data inside a computer among different components?	A. Control Unit B. System Bus C. Memory D. Processor
185	The binary value of the letter 'A' is 01000001 and its decimal value is.	A. 65 B. 66 C. 67 D. 69
186	Which big data technology is commonly used to store and process large datasets in a distributed manner?	A. SQL databases B. Relational databases C. Hadoop D. Data warehouses
187	The technology used in self-driving cars is called.	A. Natural language processing B. Chatbot C. Computer vision D. Virtual assistant
188	-----is the process of starting a new business or organization.	A. SDG B. Design C. Entrepreneurship D. All of these
189	How does AI contribute to the gaming industry? Which aspect of AI is responsible for customizing the gaming experience for players.	A. AI generates life-like NPCs and deep learning is responsible for customization B. AI generates graphics quality, and supervised learning customizes the gaming experience C. AI improves game physics, and natural language processing customizes the gaming experience. D. AI creates in-game content and reinforcement learning customizes the gaming experience
190	Which language is used to create a webpage?	A. XML B. HTML C. TML D. ML
191	Which of these is a security concern in IoT deployments.	A. Device vulnerability B. Data Privacy C. Lack of standardization D. All of the above
192	What type of data involves distinct, separate values that are countable?	A. Nominal data B. Discrete Data C. Continuous data D. Ordinal Data
		A. Offering virtualized hardware resources like servers and storage B. Providing a complete software

193	What is a primary feature of infrastructure as a Service in cloud computing.	<p>solution for customers</p> <p>C. Managing all aspects of company's IT infrastructure</p> <p>D. Delivering specific applications over the internet</p>
194	What is the primary function of a system.	<p>A. To work independently</p> <p>B. To achieve a common goal</p> <p>C. To create new systems</p> <p>D. To provide entertainment</p>
195	Which one is the example of Analog signal?	<p>A. Binary</p> <p>B. Sound Wave</p> <p>C. 10</p> <p>D. None of these</p>
196	What is abstraction in computational thinking?	<p>A. Using complex language and jargon to explain problems</p> <p>B. Solving a problem step-by-step without simplification</p> <p>C. Focusing on the most important details and ignoring irrelevant information</p> <p>D. Creating detail models for real-world problems</p>
197	Which topology connects all devices of the network through a single common cable having exactly two end points?	<p>A. Bus</p> <p>B. Ring</p> <p>C. Topology</p> <p>D. Machines</p>
198	Email stands for	<p>A. Center</p> <p>B. Problem</p> <p>C. Mail Electronic</p> <p>D. Electronic Mail</p>
199	Which of the following is a potential risk of not backing up data?	<p>A. Data loss due to hardware failure or malware attack</p> <p>B. Increased system performance</p> <p>C. Faster system boot times</p> <p>D. Improved file accessibility</p>
200	-----means creating something new?	<p>A. Overflow</p> <p>B. Innovation</p> <p>C. Overtake</p> <p>D. None of these</p>
201	The header element is container for	<p>A. Number</p> <p>B. Metadata</p> <p>C. col</p> <p>D. text</p>
202	What is the role of domain knowledge in data science.	<p>A. Writing code for data analysis</p> <p>B. Visualizing data</p> <p>C. Understanding the specific context of data</p> <p>D. Conducting statistical tests</p>
203	Why is it important to use computers safely and responsibly.	<p>A. To make the computer run faster</p> <p>B. To avoid paying for software</p> <p>C. To protect our personal information and make wise choices about hardware and software</p> <p>D. To ensure we can use them more frequently</p>
204	Which of the following is a principle of computational thinking?	<p>A. Ignoring problem understanding</p> <p>B. Implementing random solutions</p> <p>C. Problem simplification</p> <p>D. A Valid solution design</p>
205	Which software is used to enhance system performance and security?	<p>A. Operating system</p> <p>B. Device drivers</p> <p>C. Utility software</p> <p>D. Application software</p>
206	MAC stands for?	<p>A. Media Access Control</p> <p>B. Media Access Central</p> <p>C. Media Access configure</p> <p>D. Media Access connect</p>
207	What is the function of system software?	<p>A. To facilitate communication between hardware and software</p> <p>B. To organize and analyze data</p> <p>C. To create visual content</p> <p>D. To perform specific tasks for the user</p>

208	What is an example of a simple system?	A. A human body B. Computer Network C. A thermostat regulating temperature D. The Internet
209	1 GB = (1,024) MB or.....bytes.	A. (1,024) ⁵ bytes B. (1,024)KB or (1,024) ² C. 8 D. (1,024) ³
210	What is data	A. Processed information B. A list of observed events C. A collection of numbers only D. Raw facts gathered about things
211	Single Precision use.....bits?	A. 30 B. 31 C. 32 D. None of these
212	-----is the fast rate at which data is received and acted on.	A. Velocity B. Volume C. Variety D. Vision
213	Base of Octal Number system is.	A. 2 B. 8 C. 10 D. 16
214	What is the main purpose of a firewall in network security?	A. Convert data into a secure format B. Translate domain names C. Monitor and control network traffic D. Assign IP addresses
215	What is the first step in the systematic process of troubleshooting?	A. Establish a Theory of Probable Cause B. Implement the solution C. Document Finding Action, and Outcomes D. Identify Problem
216	Flowchart are used to	A. Identify patterns B. Code a program C. Represent algorithms graphically D. Solve mathematical equations
217	In Binary 1s Presents.....?	A. OFF B. OF C. ON D. None of these
218	What does CSS stand for?	A. Colorful Style Sheets B. Cascading Style Sheets C. Computer Style Sheets D. Creative Style Sheets
219	What is the first step in the design thinking process?	A. Prototyping B. Defining C. Empathizing D. Testing
220	What does "Scalability" mean in a software system	A. Ability to prevent system crashes B. Ability to integrate with third party software C. Ability to expand and handle increased workloads D. Ability to function with minimal resources
221	TCP/IP is a stack of protocols and it has.....layers.	A. 2 B. 5 C. 7 D. 9
222	What is the type of data used to categorize items without implying any order.	A. Ordinal data B. Discrete Data C. Nominal Data D. Continuous Data
223	ASCII Code for 'P' is.....?	A. 80 B. 81 C. 82 D. All of these


A. AI used for secure data storage

224	In what scenario is AI most likely to contribute to spreading misinformation ?	B. AI incorporated in healthcare systems C. AI used on social media platform D. AI aiding law enforcement agencies
225	Which number system consists of 0s and 1s	A. Decimal B. Octal C. Binary D. Hexa
226	What is the primary benefit of cloud computing in terms of cost?	A. It increases upfront infrastructure costs. B. It is more expensive than traditional on premises solutions C. It reduces upfront infrastructure costs and allows pay as you go pricing D. It eliminates the need for data backup
227	Which step involves coming up with a theory about what might be causing a problem?	A. Test the theory to Determine the cause B. Establish a theory of probable cause C. Implement the solution D. Verify full system functionality
228	What is the purpose of a parallelogram shape in flowcharting.	A. Decision B. Input /output C. Connector D. start or End
229	What type of environment remains unchanged unless the system provides an output.	A. Dynamic B. Static C. Deterministic D. Non-deterministic
230	What does IIOT stand for?	A. Internet of things B. Internal operating technology C. Input-output transfer D. Integrated optical technology
231	----- is a structured or processed collection of data usually associated with a unique body of work	A. Dataset B. Data base C. Data and information D. Information
232	The AI tool that converts text to speech is	A. Lovo AI B. Grammarly C. Chat GPT D. Alexa
233	What is an outlier in a dataset.	A. The middle value when all values are arranged in order B. An unusual or extremely value that doesn't fit the pattern C. The most frequent value D. the average of all values
234	Which is the primary function of an operating system in a computer system?	A. To provide hardware components B. To manage hardware and software resources. C. To act as an input device D. to manufacture computer parts.
235	Which of the following is an input device?	A. Monitor B. Printer C. Keyboard D. Speaker
236	All the characters on your keyboard have an associated code in binary. This code is called	A. ASCII B. Unicode C. EBCDIC D. BCD
237	Why should hardware maintenance guidelines be followed.	A. Voids warranty B. Leads to obsolescence C. Reduce efficiency D. Ensures performance
238	What should you check to ensure hardware and software compatibility.	A. The color of the hardware B. The system requirements on software packages and match them with your computer's specifications C. The price of the hardware D. The brand of the hardware

A. Bytes

239	In primary and secondary stroages data is stored in the form of.	B. Bit C. Nibble D. GB
240	the output of AND Operation is 1 only whenboth inputs are?	A. 10 B. 0 C. 1 D. 00
241	Whcih of the following is the first step in problem solving according to computational thinking	A. Writing the solution B. Designing a flowchart C. Understanding the problem D. Selecting a solution
242	Pattern recognition involves	A. Ignoring repetitive elements B. Breaking problems into smaller pieces C. Finding and using similarities within problem D. Writing detailed algoithm
243	Breaking down the larger problems into smaller manageabe ones and working on them one by one is called.	A. Abstraction B. Algorithm design C. Pattern Recognition D. Decomposition
244	ALU Stands for.....	A. Arithmetic and Local Unit B. Arithmetic and Legal Unit C. Arithmetic and Logic Unit D. None of these
245	What is the primary purpose of using AI Techniques in machine learning models?	A. To improve accuracy B. To enhance interpretability C. To reduce computaational complexity D. All of the above
246	Which of the following best describes a key advantages of cloud computing for businesses.	A. Rduced flexibiliyt in scaling resources B. Ability to scale resources on demand C. Need for extensive in house maintenacance D. Higher upfront infrastructure costs
247	Which of the following is an application of AI in healtcare.	A. Personalized drug development B. Automated diagnosis C. Remote patient monitoring D. All of the above
248	Which of the following is teh primary purpose of data beackup?	A. to archive old files B. To free up disk space C. To increase system perfornce D. To recover data in case of loss or corruption
249	What does market analysis involve.	A. Calculating revenue forecasts B. Developping pricing strategies C. Researchign competitors and understnding customer needs D. Implementing digital marketing campaigns
250	Pixel Stands for?	A. Picture Identitiy B. Picture Element C. Picture Digit D. None of these
251	Which signals are in continues form?	A. Digital B. Analog C. Both a and b D. None of these
252	Which programming language is commonly used for bign data analytics and machine learning tasks.	A. Java B. C++ C. Phytion D. Ruby
253	Which of the following is a example of preventive maintenance for a computer system.	A. Replacing a faulty hard drive B. Removing malware after infection C. Restarting the sytem when it freezes D. Applying software updaes regularly
254	Hexadecimal system has total.....numbers.	A. 15 B. 16 C. 17 D. 18

255	-----refer to the process of carefully examining and studing data to identify patterns, draw conculsios, or make the data meaningful	A. Data analytics B. Daa predictions C. Data set D. Data base
256	In digit system 0 eresents?	A. OF B. OFF C. ON D. All of these
257	Which of the following describes a benefit of using Software as a service .	A. Users need to maintain their own software installations B. Ability to customize underlying infrastructure C. Software in hosted and managed by a third party D. Ability to customize underlying infrastures
258	What is a characteristics of entrepresnurship in the digital age.	A. Reliane on off B. Dependence on tradiational marketing strategies C. Utilizatio of technology and online platforms D. Emphasis on Physical Store fronts
259	Java is a.....lanaguage.	A. Machine B. Programming C. Both a and b D. None
260	Pseudocode is	A. A high level description of an algorithm using plain langauge B. A type of flowchart C. A programming language D. A debugging tool
261	Number"17" is equal to.....in binary system	A. 10000 B. 10001 C. 10110 D. 10100
262	11 ₁₀ is an example ofnumber	A. Binary B. Decimal C. Hexadecimal D. Octal
263	What is essential for the reponsible use of software.	A. Shring licences B. Ignoring updates C. Using pirated versions D. Regular updates
264	Google Chrome is a.....?	A. Audio Editor B. Search Engine C. Web Browsey D. Both b and c
265	Which types of software testing focuses on the entire software system's performance?	A. Unit Testing B. System Testing C. Integration Testing D. Regression Testing
266	Which action violates responsbile software usage.	A. Instalng updates B. Following EULA C. Regular backups D. Sharing licensed copies
267	Which of the following best defines computational thinking?	A. An approach that ignores real world applications B. A Problem solving approach that employs systematic , algoorthmic and logical thinking C. A technique used exclusively in computer programming D. A method of solving problem using mathematicla alulations only.
268	What is entrepreneurship?	A. The process of buying and selling stocks B. The process of creating a marketing campaign C. The process of starting a new business or organization D. The process of working for a large company
269	Binarv Arithmetic operations.use.....?	A. Addition B. Subtraction C. Multiplication D. Division

		C. Multiplication D. All of these
270	What is the main purpose of a spreadsheet software?	A. To edit text documents B. To create visual content C. To organize and analyze data D. To hence system security
271	What is the primary object of computer networks.	A. Increase computational B. Enable resource sharing and data communication C. Enhance graphic capabilities D. Improve software development
272	In flowcharts symbol  is used to show a	A. Decision making B. solution C. Test Data D. Verification
273	BIT Stand for?	A. Binary Digit B. Binary Integer C. Binary Terms D. Binary Value
274	Most of the tags in HTML are.....tags.	A. double B. Paired C. unpaired D. italic
275	What is a safe practice for using social media.	A. Accept all friend requests B. Share location always C. Post sensitive data D. Adjust privacy settings
276	In IPV 4 each group can contain a decimal value from.	A. 1 to 255 B. 0 to 255 C. 2 to 255 D. 3 to 255
277	Which types of eero occurs whe a progrm tries to access an area of memory it is not allowe to?	A. I/O Error B. Stack Overflow C. Runtime Error D. Segmentation Fault
278	Which of these is a potential impact of AI and IoT on the job market.	A. Job displacment due to automation B. Increased demand for specialized skills C. Transformation of job roles and responsibilities D. All of the above
279	What does ADC represents?	A. Analog Digital Conversation B. Analog Digital Conversion C. Analog Digital Convenient D. All of these
280	What is the decmimal equivalent of the binary number 1101?	A. 13 B. 11 C. 12 D. 14
281	What is a key benefit of using compur networks in businesses?	A. Increase computational pover B. Enable resoruce sharing and efficient commuicaion C. Enhance graphic capabilities D. Improve software development
282	Which of the following Boolean expressions represents the OR operation	A. A.B B. A+B C. A D. A-B
283	Which of the following is the best practie for data backup frequency?	A. Once a year B. After every system update C. Regular and scheduled backups D. Only after system crash
284	Which of the network is goematic reprsentation of the relationship among the intrconnected devices.	A. Ring B. Machine C. Star D. Topology
285	What enhances oline security.	A. Simple passwords B. Ignoring updates C. Two Factor authentication D. Sharing passwords

286	In which topology data is send either cckwise or anticlockwise.	A. Bus B. Star C. Ring D. Single
287	Which protocol is used to transfer files over the internet securely.	A. FTP B. SMTP C. SFTP D. HTTP
288	Which approach is best when troubleshooting an unknown issue on a system.	A. Guess the problem and take action B. Change multiple system setting at once C. Apply a systematic step-by-step approach D. Format the system immediately
289	(1024) TB or (1,024) ⁵ bytes is equal to.	A. 1 TB B. 1 PB C. 1 KB D. 1 GB
290	Why are operating system updates important?	A. They increase screen brightness B. They enhance security and fix bugs C. They improve battery life D. They add more fonts
291	What is the main advantage of cloud based backups over local backups?	A. they are free of cost B. They require no internet connection C. They provide offsite data storage and disaster recovery D. They increase disk space on local drives
292	Which layer sends a message to the server connected with sender?	A. transport B. Data Link C. Physical Layer D. Main
293	Why should you be cautious when using public Wi-Fi for sensitive transactions?	A. Public Wi-Fi is usually faster B. Public Wi-Fi always provides C. Public Wi-Fi is free D. Public Wi-Fi networks are often less secure
294	Which of the following is an example of a Natural system.	A. Banking System B. Human Circulatory system C. Transportation System D. Computer System
295	In what ways does AI help e-commerce companies.	A. AI Improve website load times B. AI create personalized product recommendations C. AI manages inventory in physical stores D. AI develops new manufacturing techniques
296	Why is it important to use hardware responsibly?	A. Improve appearance B. Reduce satisfaction C. Minimize costs D. Increase replacements
297	What is the most likely cause of a "blue screen of death" on Windows?	A. Incorrect user login B. Insufficient disk space C. Critical system error or hardware failure D. Outdated software
298	----- tells the browser how the contents are structured inside a webpage	A. Body B. Linkage C. HTML D. Link
299	----- means that the hardware and software should work well together.	A. Compatibility B. Safety C. Efficiency D. All of these
300	What does responsible computer usage include.	A. Being cautious about what you share online and protecting yourself and others B. Sharing your passwords with friends C. Choosing the most expensive

		hardware D. Ignoring software updates
301	In what way can AI be used to improve manufacturing processes?	A. AI generating design pattern B. AI automating assembly line and quality control C. AI translating technical documents D. AI creating marketing strategies
302	HTML is not a.....language.	A. Markup B. Programming C. Both a and b D. None of above
303	In which are of AI is facial recognition technolgy commonly used.	A. Expert system B. Speech recognition C. Computer vision D. Natrual language processing
304	Which is used to transfer files over a a network?	A. HTML B. FTP C. HTTP D. ALP
305	Which of the following ensures data consistency in a software system?	A. Fault tolerance B. Scalability C. Modular design D. Transaction management
306	Algorithms are	A. List of data B. Graphical representations C. Repetitive patterns D. Steps by step instructions for solving a problem
307	In "body" tag.....is used to make a picture of background image of a webpage?	A. Bag B. Bgimage C. Background D. Both a and b
308	Which of the following is an ethical pricniple that should be considered in the development and deploement of AI and lot technology	A. Transparency and accountability B. Respect for priacy and data rights C. Fairness and non discrimination D. All of the above
309	What should be avoided when handling emails.	A. Opening attachements from unknown sources B. Using subject lines C. Organizing inbox D. using rppectful language
310	Which of the following key concepts involves transforming raw data into a structured format that is suitable fof analysis.	A. Data ethics B. Data modeling C. Data exploration D. Data collection
311	Which of these AI algorithms is considered an explainable model.	A. Neural Networks B. Random Forests C. Decision Trees D. Convolutional Neural Networks
312	Which one is not the component of Front-end development.	A. CSS B. HTML C. Web Server D. Java Scrip
313	1 TB = (1,024) GB orbytes.	A. (1,024) ⁴ B. (1,024) ⁵ bytes C. (1,024) KB ot (1,024) ² D. (1,024) ³
314	Some tages do not have closing tags and they are called.	A. Paired tags B. Triple C. Empty D. Unpaired tags or empty tags
315	Which principle is suggestd for the ethical design of AI algorithm to ensure trust in technology?	A. Maintain secrecy and non disclosure B. Prioritize use control nd customization C. Avoid provding transparency in algorithm operations D. Disregard fairness and bias mitigation
316	Which of the following is a protocol used for email transmission?	A. FTP B. DNS C. SNMP D. SMTP

D. SMTP

317	----- is a method of collecting information from individuals.	A. Data Finding B. Data hiding C. Survey D. Data visualization
318	What is one reason to avoid clicking on unknown links or downloading files from untrusted sources.	A. They might contain helpful software B. They are usually cheaper C. They help your device run faster D. They might contain malware that can harm your device or steal your information
319	How many bytes are used to store a typical integer?	A. 1 byte B. 2 bytes C. 4 bytes D. 8 bytes
320	In the single precision, how many bits are used for the exponent.	A. 23 bits B. 11 bits C. 8 bits D. 52 bits
321	What are the tiny dots that make up an image called?	A. Pixels B. Bits C. Bytes D. Nodes
322	Which number system has base 2?	A. Decimal B. Octal C. Binary D. Hexa decimal
323	NOTEPAD++ is a	A. Audio Editor B. Video Editor C. Text Editor D. None of these
324	What is the main disadvantage of the Von Neumann architecture.	A. High cost of components. B. Difficulty in executing machine language instructions C. Limited data storage capacity D. Bottleneck due to shared memory access for instructions and data
325	What is the primary goal of natural language processing in the field of AI?	A. Identifying patterns in visual data B. Understanding and generating human language C. Recognizing facial expressions D. Analyzing sensor data
326	DHCP stands for	A. Data Hosting computer Protocol B. Dynamic Host Computer Protocol C. Dynamic Host configuration Protocol D. None of the above
327	Which number system has base 10 as it uses ten digits from 0 to 9?	A. Decimal B. Hexa C. Octal D. Binary
328	-----include the data which can only take certain values and cannot be further subdivided into smaller units.	A. Ordinal Data B. Referral data C. Statistical data D. Referral data
329	Which systems involve substances and their interactions?	A. Artificial B. Chemical C. Psychological D. Biological
330	What was the name of the first created virus?	A. Creeper B. Grepper C. OS D. UDP
331	What is the primary challenge associated with traditional data processing techniques when dealing with big data.	A. Lack of storage capacity B. Limited availability of data visualization tools C. Inability to handle diverse data types and large volumes D. Slow processing speed
332	In K-map, K stands for.....?	A. Knowledge B. Karnaugh C. Both a and b

		<p>C. Both A and B</p> <p>D. None of these</p>
333	What is a key concern about using AI for hiring and recruitment	<p>A. AI might reduce job loss</p> <p>B. AI might reduce or amplify biases in hiring decisions</p> <p>C. AI could lower the cost of recruitment</p> <p>D. AI could improve workplace diversity</p>
334	How can you organize data to make it easier to analyse.	<p>A. By keeping it in a messy notebook</p> <p>B. By creating tables, charts, and graphs</p> <p>C. By writing it in long paragraphs</p> <p>D. By storing it in random files</p>
335	Which of the following is the "Brain " of a computer system.	<p>A. Hard Disk Drive (HDD)</p> <p>B. Central Processing Unit (CPU)</p> <p>C. Random Access Memory (RAM)</p> <p>D. Power supply Unit(PSU)</p>
336	Which device is used to connect multiple devices within a local area Network and direct data only to the intended recipient?	<p>A. Hub</p> <p>B. Router</p> <p>C. Repeater</p> <p>D. Switch</p>
337	What is the primary difference between signed and unsigned integers?	<p>A. Unsigned integers cannot be negative</p> <p>B. Signed integers have a larger range</p> <p>C. Unsigned integers are stored in floating -point format</p> <p>D. Signed integers are used for positive numbers</p>
338	Which network topology connects all devices to a central hub?	<p>A. Ring</p> <p>B. Star</p> <p>C. Mesh</p> <p>D. Bus</p>
339	What potential problem arises due to the lack of transparency in AI decision making?	<p>A. Enhance user trust in AI</p> <p>B. Clear understanding of the AI decision making process</p> <p>C. Difficulty in understanding why certain choices are made</p> <p>D. Increased efficiency in healthcare and law enforcement</p>
340	IPv4 is divided ingroups by.	<p>A. 2</p> <p>B. 3</p> <p>C. 4</p> <p>D. 5</p>
341	If an application is unresponsive which key combination is used to force-close it on Windows?	<p>A. Ctrl+Alt+Tab</p> <p>B. Alt+F4</p> <p>C. Ctrl+Shift+Del</p> <p>D. Shift+ESc</p>
342	The IPV 4 address is made up of.....binary bits	<p>A. 31</p> <p>B. 29</p> <p>C. 32</p> <p>D. 30</p>
343	UTF stands for?	<p>A. Unicode Transformation Formula</p> <p>B. United Transformation format</p> <p>C. Unicode Transformation Formation</p> <p>D. None of these</p>
344	How many types of IP address?	<p>A. 2</p> <p>B. 3</p> <p>C. 4</p> <p>D. 5</p>
345	To convert a decimal number to binary, we divide the number byand take quotient and remainder.	<p>A. 2</p> <p>B. 8</p> <p>C. 12</p> <p>D. 16</p>
346	Which technology is fundamental for AI development.	<p>A. Graphic Design</p> <p>B. Word processing</p> <p>C. Machine Learning</p> <p>D. Spread sheets</p>
347	What promotes responsible use of hardware and software.	<p>A. Ignoring maintenance</p> <p>B. Using outdated software</p> <p>C. Improper disposal</p> <p>D. Strong security measures</p>

348	How does AI contribute to the field of cybersecurity.	A. AI automates repetitive administrative tasks B. AI enhances threat detection and response C. AI manages customer interactions D. AI monitors physical security systems
349	What is the example of a digital technology used by modern entrepreneurs.	A. News paper advertisement B. Television commercials C. Door to door sales D. Mobile Apps
350	CPU Stand for?	A. Central Processing Unit B. Central Processing Unity C. Central Processing United D. None of these
351	Which diagnostic command displays the IP address , subnet mask, and default gateway of a system.	A. Tracert B. Netstat C. Ipconfig D. Nslookup
352	Which Protocol used to automatically assign IP addresses to devices on a network?	A. DNS B. ARP C. DHCP D. TCP
353	Which type of data attribute represents categories with a specific order but inconsistent intervals between them?	A. Nominal B. Binary C. Ordinal D. Interval
354	What is the significant concern regarding the usage of AI in relation to privacy?	A. AI has no access to personal data B. AI cannot be used for surveillance purpose C. AI might access private information causing worries about who can use it and how D. AI systems are always transparent about data usage
355	Which refers to the skeleton of a web page?	A. Career Opportunities B. Digital Literacy C. Creativity D. Problem Solving
356	How should personal information be managed online.	A. Share freely B. Post publicly C. Use weak passwords D. Keep Private
357	The diamond symbol represents the	A. Input /output B. Remarks C. Decision making D. Processing
358	How does utility software differ from application software?	A. Utility software manages hardware while application software performs specific tasks for users B. Utility software is free while application software is paid C. Utility software creates documents, while application software manages hardware. D. Utility software performs specific tasks for users while application software manages hardware.
359	double Precision usesbits?	A. 64 B. 62 C. None of these D. 32
360	What tool is commonly used to check system log files for errors?	A. Event Viewer B. Task Manager C. Control Panel D. File explorer
361	Microsoft releases major updates for Windows every.....months.	A. 3 B. 4 C. 6 D. 8
362	The technology concerned with performing specific tasks with little or no human intervention using computer-controlled machines is called.	A. Robotics B. Computer vision C. Virtual technology D. Computer intelligence

363	Which one is not the component of Back-end Development?	A. CSS B. Database C. Web Server D. Back end
364	Which IP Address class is used for large networks and supports up to 16 million hosts	A. Class C B. Class D C. Class A D. Class B
365	Which of the following is NOT an example of an artificial system?	A. Solar system B. Traffic control system C. Automated billing system D. Railway reservation system
366	How many types of tags in an HTML document?	A. 1 B. 2 C. 3 D. 4
367	----- is limitation of big data.	A. Statistical data B. Unlimited growth of data C. Data visualization D. Predictive maintenance
368	The term "middleware" in software system refers to.	A. Software that bridges communication between systems B. Tools for debugging software C. User facing applications D. Backend databases
369	----- is about doing the right thing when it comes to collecting, storing, and using information.	A. Storing B. Sharing C. Laws D. Data Ethics
370	Which of the following numbers is a valid binary number	A. 1101102 B. 1101 A C. 110.11 D. 11011
371	An HTML element usually consists of a.....tag.	A. Star B. End C. Start and end D. None of the above
372	Which is the device that initiates the communication process?	A. Networks B. Machine C. Sender D. Center
373	Which practice helps protect electronic devices.	A. Installing updates B. Disabling firewalls C. Using outdated software D. Ignoring antivirus software
374	2 FA stands for.....	A. Two -factor authority B. Two -Factor Authentication C. Two factor authorization D. None of these
375	Which statistical measure provides a measure of the central tendency of a dataset.	A. Mean B. Median C. Variance D. Standard deviation
376	Which one is the function of JavaScript?	A. Simple B. Function with Multiple Parameters C. Function with parameters D. All
377	What is the purpose of an oval shape symbol in flowcharting?	A. Start and End B. Decision C. Connector D. Process
378	To save the HTML page, you can use as file extension.	A. .htm B. .html C. .xhtml D. Both a and b
379	Which of the following best describes the concept of big data.	A. Data that is stored in traditional databases B. Data that is too small to be analyzed effectively C. Data that is characterized by high volume, velocity, and variety D. Data that is only generated by

380	What should you do to ensure data security.	<p>A. Use the same password for all accounts</p> <p>B. Use strong unique password and enable two factor authentication</p> <p>C. Avoid using any security measures</p> <p>D. Share your password with friends</p>
381	Which technique has drawn a pictorial representation of the solution?	<p>A. Prototype</p> <p>B. Pseudo</p> <p>C. Debugging</p> <p>D. Testing</p>