

# JOA IT

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1). Which of the following best describes an analog computer?

[Computer]

- A) A machine that performs only arithmetic with binary digits
- B) A computer that works only with discrete numbers
- C) A computer that processes data represented by continuous physical quantities
- D) A computer that stores data only as text

Answer: A computer that processes data represented by continuous physical quantities

2). Which sequence correctly represents the data flow in a basic computer organization during the execution of an instruction?

[Computer]

- A) Memory Unit to Output Unit to Input Unit to CPU
- B) Output Unit to Memory Unit to CPU to Input Unit
- C) CPU to Input Unit to Memory Unit to Output Unit
- D) Input Unit to Memory Unit to CPU to Output Unit

Answer: Input Unit to Memory Unit to CPU to Output Unit

3). How did the introduction of transistors in the second generation impact the size and performance of computers compared to the first generation?

[Computer]

- A) Computers became larger and less reliable
- B) Computers remained the same size with no performance improvement
- C) Computers became smaller and more reliable with faster processing
- D) Computers became slower but more reliable

Answer: Computers became smaller and more reliable with faster processing

4). A hospital is designing a new patient management system. To ensure efficient data handling, how should the input-process-output model be structured within the block diagram? [Computer]

- A) Patient details entered at reception are inputs, software processes scheduling and records, and updated schedules or records are outputs.
- B) Patient symptoms are output, nurses are input, and computers are process.
- C) Receptionist is input, computer is process, and doctor is output.
- D) Doctors treating patients are inputs, medicines given are processes, and improved health is output.

Answer: Patient details entered at reception are inputs, software processes scheduling and records, and updated schedules or records are outputs.

5). Transistors were mainly used in which generation of computers? [Computer]

- A) Fifth generation
- B) First generation
- C) Third generation
- D) Second generation



Answer: Second generation

6). A digital computer must process complex engineering problems requiring parallel processing and enormous memory. Which system best fulfills this need? [Computer]

- A) Mainframe computer
- B) Supercomputer
- C) Microcomputer
- D) Mini computer

Answer: Supercomputer

7). Which of the following keys is used to start a new line in a text document?

[Computer]

- A) Enter
- B) Shift
- C) Alt
- D) Control

Answer: Enter

8). Which of the following is a primary function of a CD in computer systems?

[Computer]

- A) Increasing computer speed
- B) Storing and transferring digital data
- C) Connecting to the internet
- D) Playing video games

Answer: Storing and transferring digital data

9). Which of the following best describes how a scanner is used as an input device in computer hardware?

[Computer]

- A) A scanner stores documents directly onto the hard drive without conversion.
- B) A scanner processes data and executes computer programs.
- C) A scanner displays information on the monitor for the user to view.
- D) A scanner converts physical documents into digital data for processing by the computer.

Answer: A scanner converts physical documents into digital data for processing by the computer.

10). Which of the following is a task that a light pen can perform?

[Computer]

- A) Printing documents from memory
- B) Playing audio files loudly
- C) Storing large files
- D) Selecting menu items on the screen

Answer: Selecting menu items on the screen



11). How does the Control Unit (CU) contribute to the execution of a computer program?

[Computer]

- A) It supplies power to the processor circuits
- B) It fetches, decodes, and controls execution of instructions
- C) It monitors hardware temperature for safety
- D) It stores the results of calculations

Answer: It fetches, decodes, and controls execution of instructions

12). Why is the CU critical for handling multiple instructions in modern CPUs?

[Computer]

- A) It organizes the sequence and control signals for each instruction
- B) It increases the physical speed of the processor
- C) It stores user files for later use
- D) It adds more physical memory to the computer

Answer: It organizes the sequence and control signals for each instruction

13). For large-scale data processing, which combination of CPU features will most effectively reduce bottlenecks and improve throughput?

[Computer]

- A) Increasing the number of processor cores only
- B) An advanced Control Unit (CU) with standard clock speed
- C) Large cache memory and high clock speed working together
- D) A powerful Arithmetic Logic Unit (ALU) with basic cache memory

Answer: Large cache memory and high clock speed working together

14). A DRAM cell loses its charge in a few milliseconds due to leakage. What prevents data loss?

[Computer]

- A) ECC correction
- B) Dual-channel mode
- C) Periodic refreshing
- D) Increasing voltage

Answer: Periodic refreshing

15). When a programmer writes instructions in assembly language, which essential tool is required to convert these instructions into machine-executable code? [Computer]

- A) Assembler translates assembly language into machine code
- B) Interpreter executes the instructions directly
- C) Debugger identifies errors in the instructions
- D) Compiler translates the instructions into machine code

Answer: Assembler translates assembly language into machine code

16). What is one major advantage of using spreadsheet software in business or educational settings? [Computer]

- A) It automatically prints reports without user input
- B) It is the only way to share documents between users
- C) It requires no training to enter data
- D) It allows users to perform quick calculations on data sets

Answer: It allows users to perform quick calculations on data sets

17). If a software tool translates high-level code into machine language, what is the main advantage for CPU processing? [Computer]

- A) The code becomes more readable for programmers.
- B) The CPU can debug the code while running it.
- C) The CPU manages translation between languages automatically.
- D) The CPU can process instructions without needing further translation.

Answer: The CPU can process instructions without needing further translation.

18). Which utility program would you use to recover accidentally deleted files from a computer's recycle bin?

[Computer]

- A) A backup utility which creates duplicate copies of files.
- B) A file recovery utility which retrieves deleted files from storage.
- C) A disk partitioning utility which changes drive configurations.
- D) An anti-malware utility which scans for viruses and threats.

Answer: A file recovery utility which retrieves deleted files from storage.

19). Which is a main feature of open source software?

[Computer]

- A) License is always paid
- B) No updates are allowed
- C) Source code is available
- D) Only one user can access

Answer: Source code is available

20). A company wishes to improve document collaboration and formatting for its staff. Which feature of a word processor best enables real-time editing and consistent presentation among multiple users?

[Computer]

- A) Track Changes and formatting styles
- B) Insert charts and page numbering
- C) Spell check and mail merge
- D) Macros and auto-correct

Answer: Track Changes and formatting styles



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21). Which of the following statements about software is FALSE when evaluated against fundamental characteristics of software systems? [Computer]

- A) Software is intangible
- B) Software can be copied without degrading the original
- C) Software wears out over time like hardware
- D) Software is developed through programming

Answer: Software wears out over time like hardware

22). An organization wants to minimize long-term software maintenance costs and ensure it can legally modify the software for its specific needs. Which license type is most aligned with these objectives? [Computer]

- A) Shareware license
- B) Commercial license
- C) Open-source license
- D) Freeware license



Answer: Open-source license

23). Which term best describes an operating system's ability to run more than one program at the same time? [Computer]

- A) Multiprocessing
- B) Batch processing
- C) Virtualization
- D) Multitasking

Answer: Multitasking

24). Android is primarily used on which type of device?

[Computer]

- A) Laptops
- B) Desktops
- C) Tablets
- D) Smartphones

Answer: Smartphones

25). In a multi user operating system environment, how is user data kept private?

[Computer]

- A) Device drivers
- B) Print spooling
- C) Permission controls
- D) Graphical user interface

Answer: Permission controls

26). Which of the following best describes a multi-user operating system?

[Computer]

- A) Does not support process management and process scheduling
- B) Does not support memory management
- C) Supports multiple users accessing system resources simultaneously
- D) Can run only one application at a time

Answer: Supports multiple users accessing system resources simultaneously

27). A company requires its operating system to ensure secure user authentication, efficient hardware use, and a user-friendly interface. Which combination of OS functions fulfills all these needs?

[Computer]

- A) Resource management and user interface only
- B) Security and resource management only
- C) File management and security only
- D) Security, resource management, and user interface provision

Answer: Security, resource management, and user interface provision

28). In a multitasking operating system, multiple processes compete for processor time. Process execution is organized according to scheduling policies, priorities, and system state. Identify the operating system component responsible for selecting the next process for execution. [Computer]

- A) File manager
- B) Device controller
- C) CPU scheduler
- D) Boot loader

Answer: CPU scheduler

29). After merging cells in a table, what happens to the text in those cells in MS Word?

[Computer]

- A) The text moves to the left margin of the document
- B) The text from all cells is combined in the merged cell
- C) The text becomes bold automatically
- D) The text is deleted from the table

Answer: The text from all cells is combined in the merged cell

30). Which of the following statements is FALSE regarding macros in Microsoft Word (2019 or later)?

[Computer]

- A) Macros are mandatory for saving documents
- B) Macros can automate repetitive tasks
- C) Macros can be assigned to shortcut keys
- D) Macros may contain recorded command sequences

Answer: Macros are mandatory for saving documents

31). A user is preparing a multi-page document in Microsoft Word 2021 and wants the document title to appear automatically at the top of every page. The user needs a feature designed for displaying repeated information throughout the document. Which feature should be used? [Computer]

- A) Page Break
- B) Header
- C) Columns
- D) Indentation

Answer: Header

32). When drafting a report, you want to ensure that each section starts on a new page automatically. Which tool in MS Word is best suited for this requirement? [Computer]

- A) Font size should be reduced for section headers
- B) Columns should be inserted in the document
- C) Page break feature is most appropriate
- D) Indentation must be increased for each section

Answer: Page break feature is most appropriate

33). A teacher reviews two academic reports: one with detailed headers showing chapter titles and page numbers, and one with no headers. What is a likely advantage the teacher perceives in the report with headers? [Computer]

- A) Headers obscure important information in the body text.
- B) Headers distract from the main content, reducing readability.
- C) The headers make the report longer and harder to print efficiently.
- D) The teacher can quickly locate chapters and verify page order, improving assessment efficiency.

Answer: The teacher can quickly locate chapters and verify page order, improving assessment efficiency.

34). Which MS Excel graph type is most suitable for tracking changes over time? [Computer]

- A) Pie chart
- B) Bar chart
- C) Scatter plot
- D) Line graph

Answer: Line graph

35). A dataset includes sales records across different regions and months. An analyst applies filters for "Region = East" and "Sales > 5000" at the same time. What will be the result of applying these filters? [Computer]

- A) Records matching either condition are shown
- B) All records are sorted in order automatically
- C) All records are deleted from the dataset completely
- D) Records matching both conditions are shown

Answer: Records matching both conditions are shown

36). Which of the following is NOT an advantage of charts in Microsoft Excel (2019 or later)? [Computer]

- A) Easier identification of trends and patterns
- B) Quick visual interpretation of data
- C) Better presentation of comparisons
- D) Protection of data in the worksheet

Answer: Protection of data in the worksheet

37). A data analyst imports customer information into Microsoft Excel 2021 from a text file. The imported data contains full names separated by commas within a single column. Which Excel feature should be used to divide the data into separate columns automatically?

[Computer]

- A) Remove Duplicates
- B) Text to Columns
- C) Flash Fill
- D) Conditional Formatting

Answer: Text to Columns

38). What will be the result of the formula =LEFT("INFORMATION", 5) in Microsoft Excel (2019 or later)?

[Computer]

- A) INFOR
- B) MATIO
- C) INFO
- D) ROFNI

Answer: INFOR

39). If you want to add a slide with both a title and two content sections, which layout should you use?

[Computer]

- A) Title Slide
- B) Title and Content layout
- C) Blank layout
- D) Comparison layout

Answer: Comparison layout



40). Which feature in MS PowerPoint allows you to apply a consistent set of colors, fonts, and effects across all slides in a presentation? [Computer]

- A) Animations
- B) Design themes
- C) Transitions
- D) Slide layouts

Answer: Design themes

41). Which approach best utilizes animations to enhance understanding in a classroom PowerPoint presentation? [Computer]

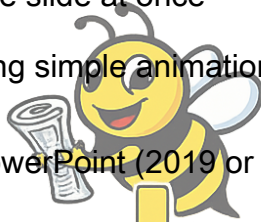
- A) Using complex animations for every element
- B) Avoiding animations entirely for every slide
- C) Using simple animations to introduce each concept step by step
- D) Animating all items on the slide at once

Answer: Using simple animations to introduce each concept step by step

42). Which option in Microsoft PowerPoint (2019 or later) allows multiple slides to be printed on a single page? [Computer]

- A) Reading View
- B) Slide Sorter
- C) Notes Pages
- D) Handouts

Answer: Handouts



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43). You are tasked with creating an interactive quiz in MS PowerPoint where feedback appears only after a specific answer is selected. Which animation technique should you use to achieve this conditional display of feedback? [Computer]

- A) Set all feedback to 'Start On Click'
- B) Use a single animation effect for all answer choices
- C) Add feedback animations with timed delays
- D) Apply animation triggers linked to the correct answer object

Answer: Apply animation triggers linked to the correct answer object

44). In computer networking, different types of networks are classified based on their coverage, cost, and communication methods. Which of the following is not a characteristic of a WAN (Wide Area Network)? [Computer]

- A) Covers large geographical regions across cities or countries
- B) Requires relatively high setup and maintenance cost
- C) Operates within a limited local area like a building or campus
- D) Uses public communication infrastructure for data transmission

Answer: Operates within a limited local area like a building or campus

45). Consider the following statements regarding modems used in computer network: S1: Modulation is a process of converting digital data into analog form, S2: Modems are required when communication medium carries analog signals, S3: Demodulation converts analog data into digital form, S4: Modems assign MAC addresses to network interface cards. Which statements are TRUE? [Computer]

- A) Only S2 and S4
- B) Only S1, S2 and S3
- C) Only S1 and S4
- D) Only S1 and S2

Answer: Only S1, S2 and S3

46). Which protocol converts domain names into IP addresses on the Internet?

[Computer]

- A) FTP
- B) HTTP
- C) HTTPS
- D) DNS

Answer: DNS

47). Which of the following best describes how wireless networks provide connectivity within an office environment?

[Computer]

- A) They rely primarily on Bluetooth signals for all internal communication.
- B) They require physical cables for every device to connect to the network.
- C) They use radio waves to transmit data between devices and access points.
- D) They use infrared signals that require direct line-of-sight between devices.

Answer: They use radio waves to transmit data between devices and access points.

48). Why would a multinational company choose to implement a WAN instead of only LANs at each office?

[Computer]

- A) To reduce the speed of internal communication
- B) To ensure each office uses a separate internet connection
- C) To minimize the cost of networking equipment
- D) To enable centralized access to shared resources across countries

Answer: To enable centralized access to shared resources across countries

49). Why might an organization choose FDDI over Ethernet for their MAN?

[Computer]

- A) FDDI offers greater distance coverage and speed for metropolitan networks
- B) FDDI is less expensive than Ethernet for small offices
- C) FDDI is simpler to install than Ethernet
- D) FDDI uses wireless signals for easy setup

Answer: FDDI offers greater distance coverage and speed for metropolitan networks

50). What is the primary purpose of Incognito Mode in a web browser?

[Computer]

- A) To permanently hide browsing activity from internet service providers
- B) To browse the internet without saving browsing history, cookies, or temporary data locally
- C) To increase internet speed by blocking all websites
- D) To protect the computer completely from viruses and malware

Answer: To browse the internet without saving browsing history, cookies, or temporary data locally

51). A hospital needs a network to connect its computers within a single building to securely manage patient records. Which network type should it implement for best performance and security?

[Computer]

- A) Local Area Network
- B) Metropolitan Area Network
- C) Wide Area Network
- D) Personal Area Network



Answer: Local Area Network

52). A company experiences an increase in unwanted emails. Which protocol misconfiguration should they check first for abuse?

[Computer]

- A) Post Office Protocol (POP3)
- B) File Transfer Protocol (FTP)
- C) Internet Message Access Protocol (IMAP)
- D) Simple Mail Transfer Protocol (SMTP)

Answer: Simple Mail Transfer Protocol (SMTP)

53). Which of the following best describes how the Slammer worm propagated after exploiting Microsoft SQL Server?

[Computer]

- A) It spread rapidly by scanning random IP addresses for vulnerable servers.
- B) It used social engineering to trick users into installing it.
- C) It sent infected email attachments to contacts.
- D) It required users to download malicious software from a website.

Answer: It spread rapidly by scanning random IP addresses for vulnerable servers.

54). If a new type of malware spreads rapidly before security companies can analyze it, which antivirus method is most likely to detect it early?

[Computer]

- A) Sandboxing
- B) Heuristic analysis
- C) Firewall monitoring
- D) Signature-based detection

Answer: Heuristic analysis

55). A company wants to analyze potential malware without risking its main network. Which approach should it use?

[Computer]

- A) Firewall
- B) Encryption
- C) Antivirus software
- D) Sandboxing

Answer: Sandboxing



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56). An employee receives an email from their 'IT department' requesting immediate password reset by clicking a link. The email address slightly differs from the official one.

[Computer]

What is the most likely security threat in this scenario?

- A) Malware infection from attachment
- B) In-person social engineering
- C) Phishing attempt to steal login credentials
- D) Network sniffing over Wi-Fi

Answer: Phishing attempt to steal login credentials

57). Which number system uses digits from 0 to 9?

[Computer]

- A) Binary system
- B) Octal system
- C) Hexadecimal system
- D) Decimal system

Answer: Decimal system

58). Suppose you are designing a digital system using octal numbers. Which of these should you use for valid octal representation?

[Computer]

- A) Numbers containing the digit 9
- B) Numbers with only digits 0-7
- C) Numbers containing the digit 8
- D) Numbers with leading alphabet

Answer: Numbers with only digits 0-7

59). In terms of data integrity, how does a DBMS outperform a file system?

[Computer]

- A) By allowing unlimited editing of records
- B) By duplicating records frequently
- C) By enforcing consistency constraints on data entries
- D) By deleting files permanently

Answer: By enforcing consistency constraints on data entries



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60). Which type of key in a database is used to uniquely identify each record in a table?

[Computer]

- A) Candidate key
- B) Foreign key
- C) Primary key
- D) Alternate key

Answer: Primary key

61). Which scenario best demonstrates a violation of the primary key constraint in a relational database?

[Computer]

- A) Allowing NULL values in non-key columns
- B) Having multiple candidate keys in a table
- C) Using multiple foreign keys in a table
- D) Inserting two rows with the same value in the primary key column

Answer: Inserting two rows with the same value in the primary key column

62). In a database system, a student's age field is restricted to accept only numeric values within a specific range. Any alphabetical or negative input is rejected during data entry. This restriction ensures that only valid values are stored in the database column. This restriction defines:

[Computer]

- A) Domain
- B) Entity
- C) Tuple
- D) Schema

Answer: Domain

63). A company wants to generate a list of unique departments from their employee database, but some department names are repeated. Which SQL query will ensure only unique department names are displayed? [Computer]

- A) SELECT DISTINCT department FROM employees;
- B) SELECT department, COUNT(\*) FROM employees;
- C) SELECT department FROM employees;
- D) SELECT UNIQUE department FROM employees;

Answer: SELECT DISTINCT department FROM employees;

64). How does MySQL enforce the integrity of relationships between tables when records are inserted or deleted? [Computer]

- A) Permitting unrestricted deletions
- B) Using only indexing methods
- C) Applying foreign key constraints
- D) Allowing automatic record insertion

Answer: Applying foreign key constraints

65). Why are text formatting tags like b, i, and h1 important in HTML web pages? [Computer]

- A) They improve readability and help organize content visually
- B) They create hyperlinks between pages
- C) They add images to the web page
- D) They change the overall color theme of the browser

Answer: They improve readability and help organize content visually

66). If you want a link to open in the same window and not disrupt your browsing session, which target attribute would you avoid using? [Computer]

- A) \_blank
- B) \_parent
- C) \_self
- D) \_top

Answer: \_blank

67). A web developer wants to validate an email address using a JavaScript regular expression. The pattern should correctly verify usernames, the @ symbol, domain names, and valid extensions. Which JavaScript statement correctly defines a regular expression for validating an email ID? □

- A) let pattern = /^[a-z0-9.\_%+~]+@[a-z0-9.-]+.[a-z]{2,}\$/;
- B) let pattern = /^[a-z0-9.\_%+~]+#[a-z0-9.-]+.[a-z]{2,}\$/;
- C) let pattern = /^[a-z0-9.\_%+~]+@[a-z0-9.-]+#[a-z]{2,}\$/;
- D) let pattern = /^[a-z0-9.] +@[a-z0-9.-]+#[a-z]{2,}\$/; \vert{} let pattern = /^[a-z0-9.\_%+~]+@[a-z0-9.-]+.[a-z]{2,}\$/;

Answer: Computer

68). A web designer wants to create a navigation menu on a single web page that jumps to different sections like About, Services, and Contact when clicked. Which approach best applies the concept of internal hyperlinks for this purpose? [Computer]

- A) Place all content in one long div and use external links
- B) Create separate HTML files for each section and link between them
- C) Use class attributes for sections and create anchor tags for classes
- D) Assign unique IDs to each section and use anchor tags referencing those IDs

Answer: Assign unique IDs to each section and use anchor tags referencing those IDs

69). You need to reverse the elements of an array in place. Which method ensures minimal additional space usage while achieving this task? [Computer]

- A) Push all elements to a stack and pop them back
- B) Use recursion to reverse elements
- C) Swap elements from start and end towards the center
- D) Create a new array and copy elements in reverse order

Answer: Swap elements from start and end towards the center

70). If you want to change the bullet style of an unordered list in modern HTML5, which method should you use instead of the obsolete attribute? [Computer]

- A) type attribute
- B) ul-bullet property
- C) inline style attribute only
- D) CSS list-style-type property

Answer: CSS list-style-type property

71). Ramesh sells 1 pen at 10 and 4 pens at 20 each. What is the average price (in) per pen sold? [Mathematics]

- A) 16
- B) 22
- C) 20
- D) 18

Answer: 18



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72). Vijay invested 1260 at 6% per annum simple interest in a bank. What amount (in) will he get after 6 years? [Mathematics]

- A) 1713.6
- B) 1723.6
- C) 1733.6
- D) 1743.6

Answer: 1713.6

73). If ₹5,000 is invested at a rate of 5% per annum compounded annually for 2 years, what will be the interest earned at the end of 2 years? [Mathematics]

- A) 510.5
- B) ₹502.50
- C) 518.5
- D) 512.5

Answer: 512.5

74). The graph below shows the number of students participating in different sports activities from five schools (P, Q, R, S and T) during two years, 2024 and 2025. What is the increase in the total number of students for School Q and School S from 2024 to 2025? [Mathematics]

- A) 70
- B) 90
- C) 100
- D) 80

Answer: 80

75). If a four-digit number  $87x4$  is divisible by 9, find the value of  $x$ .

[Mathematics]

- A) 2
- B) 5
- C) 8
- D) 0

Answer: 8

76). Simplify:  $375 \div [150 - \{10 \times 7 + (53 - 8 \times 6)\}]$

[Mathematics]

- A) 5
- B) 10
- C) 15
- D) 20

Answer: 5

77). Priya's salary is ₹1200. If she spends 15% on groceries and saves the rest, how much does she save (in)?

[Mathematics]

- A) 950
- B) 1050
- C) 1000
- D) 1020



Answer: 1020

78). During a sale, 50% of the goods are sold at 29% profit, 20% of the remaining goods are sold at 41% profit and the still remaining goods are sold at a loss of 39%. If there is an overall profit of  $x\%$ , then what is the value of  $x$ ?

[Mathematics]

- A) 3
- B) 3.5
- C) 4
- D) 2.5

Answer: 3

79). An article's marked price is ₹3,600, the shopkeeper offers three successive discounts of 20%, 15% and 8%. Find the selling price of the article after the three successive discounts. [Mathematics]

- A) 2203.16
- B) 2232.16
- C) 2242.16
- D) 2252.16

Answer: 2252.16

80). Which of the following ratio is equivalent to 9:16? [Mathematics]

- A) 01-Jan-1900
- B) 36:64
- C) 81:256
- D) 108:158

Answer: 36:64

81). A can lay a railway track between two stations in 20 days, while B can do the same work in 13 days. With the help of C, they complete the job in just 3 days. In how many days can C alone finish the work? [Mathematics]

- A)  $4 \frac{136}{161}$  days
- B)  $9 \frac{136}{161}$  days
- C)  $3 \frac{136}{161}$  days
- D)  $8 \frac{136}{161}$  days

Answer:  $8 \frac{136}{161}$  days

82). A motorboat, whose speed is 10 kmph in still water, goes 20 km downstream and comes back in a total of 4 hours 30 minutes. The approximate speed of the stream (in kmph) is: [Mathematics]

- A) 4.2
- B) 2.5
- C) 3.33
- D) 4.23

Answer: 3.33

83). A pays B a sum of ₹450 using ₹5, ₹10, and ₹20 coins. He uses a total of 50 coins. If the ratio of 10 and 20 coins used is 5: 1, then how many coins of ₹5 are used in the payment? [Mathematics]

- A) 20
- B) 18
- C) 16
- D) 14



Answer: 20

84). Three solid metallic spheres whose radii are 1 cm,  $x$  cm and 8 cm, are melted and recast into a single solid sphere of diameter 18 cm. The surface area (in  $\text{cm}^2$ ) of the sphere with radius  $(x^2 - 11)$  cm is: [Mathematics]

- A)  $500\pi$
- B)  $2500\pi$
- C)  $1500\pi$
- D)  $2000\pi$

Answer:  $2500\pi$

85). A semicircular sheet of paper of diameter 16 cm is rolled to form a cone without any overlap, keeping the base open. If the arc of the semicircle becomes the circumference of the cone's base, determine the height of the cone. [Mathematics]

- A) 4 cm
- B)  $4\sqrt{5}$  cm
- C) 8 cm
- D)  $4\sqrt{3}$  cm

Answer:  $4\sqrt{3}$  cm

86). Which clause of Article 39 of the Directive Principles of State Policy provides for the principle of "equal pay for equal work" for both men and women? [India GK]

- A) Article 39(a)
- B) Article 39(b)
- C) Article 39(d)
- D) Article 39(e)

Answer: Article 39(d)

87). According to the Economic Survey 1995-96, the economic reforms introduced in the early 1990s led to: [India GK]

- A) Decline in output and employment
- B) Swift recovery in growth of output and employment
- C) Reduction in infrastructure demand
- D) Fall in savings

Answer: Swift recovery in growth of output and employment



88). Which of the following statements about Indian mountain ranges is correct? [India GK]

- A) The Western Ghats are not continuous like the Eastern Ghats
- B) The Eastern and Western Ghats meet at the Nilgiri Hills
- C) Anaimudi is the highest peak of the Eastern Ghats
- D) The Aravalli Range forms the eastern boundary of the Central Highlands

Answer: The Eastern and Western Ghats meet at the Nilgiri Hills

89). Who was the President of the first session of the Indian National Congress in 1885? [India GK]

- A) WC Bonnerjee
- B) Dadabhai Naoroji
- C) Gopal Krishna Gokhale
- D) Badruddin Tyabji

Answer: WC Bonnerjee

90). Which of the following is a major objective of Him Unnati Yojana? [HP GK]

- A) To promote tourism clusters in Himachal Pradesh
- B) To provide electricity subsidy to farmers
- C) To increase farmers' income through agriculture
- D) To develop industries in rural Himachal Pradesh

Answer: To increase farmers' income through agriculture

91). Which event in Himachal Pradesh was carried out in 1914-15 under the influence of the Ghadar Party? [HP GK]

- A) Pajhota Agitation
- B) Mandi Conspiracy
- C) Bilaspur Merger Movement
- D) Suket Satyagraha

Answer: Mandi Conspiracy

92). Which of the following is the State Bird of Himachal Pradesh?

[HP GK]

- A) Koklass Pheasant
- B) Western Tragopan
- C) Himalayan Griffon
- D) Cheer Pheasant

Answer: Western Tragopan

93). According to the Himachal Pradesh Economic Survey 2025-26, which industrial sector accounted for a significant portion of the State's exports in 2022? [HP GK]

- A) Iron and steel manufacturing
- B) Textile processing
- C) Pharmaceutical production
- D) Automobile manufacturing

Answer: Pharmaceutical production

94). Which among the following playback singers was conferred the Padma Bhushan in the Padma Awards announced in January 2026? [Current Affairs]

- A) Shreya Ghoshal
- B) Sunidhi Chauhan
- C) Palak Muchhal
- D) Alka Yagnik

Answer: Alka Yagnik

95). Which of the following approaches is specifically promoted under the Solid Waste Management Rules, 2026 to reduce waste generation and maximise resource recovery?

[Current Affairs]

- A) Circular Economy
- B) Sustainable Intensification of Agriculture
- C) Carbon Capture Strategy
- D) Blue Economy Framework

Answer: Circular Economy

96). In January 2026, the reimposition of higher stages of the Graded Response Action Plan (GRAP) in Delhi-NCR reflected concerns over which of the following? [Current Affairs]

- A) Rising stress on regional freshwater reserves
- B) A sustained deterioration in regional air quality indices
- C) Rising levels of Urban heat stress
- D) Declining extent of urban green spaces

Answer: A sustained deterioration in regional air quality indices

97). The continued International attention surrounding the Chagos Archipelago in 2026 was primarily associated with debates concerning: [Current Affairs]

- A) Jurisdiction over a strategically located island territory and its security implications
- B) Commercial utilisation of offshore marine resources in the central Indian Ocean
- C) Expansion of regional connectivity through maritime transport infrastructure
- D) Reorganisation of shipping corridors supporting Indo-Pacific trade networks

Answer: Jurisdiction over a strategically located island territory and its security implications

98). Which element is present in proteins but not typically present in carbohydrates and lipids? [Science]

- A) Hydrogen
- B) Nitrogen
- C) Oxygen
- D) Carbon

Answer: Nitrogen



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99). A mutation occurs in a body (somatic) cell of an adult organism. Which statement is most likely correct?

[Science]

- A) The mutation may spread to all the body cells during the individual's lifetime
- B) The mutation can affect the individual but may not be inherited
- C) The mutation automatically creates a new inherited trait in future generations
- D) The mutation is passed to offspring through every reproductive event

Answer: The mutation can affect the individual but may not be inherited

100). A base is prepared in aqueous solution and is found to produce a low concentration of Hydroxide ion ( $\text{OH}^-$ ) ions compared to another base of the same concentration. How is it classified?

[Science]

- A) Strong base
- B) Weak base
- C) Neutral substance
- D) Amphoteric substance



Answer: Weak base

101). Which of the following best describes the basic difference between matter and energy?

[Science]

- A) Matter has mass and occupies space, while energy causes changes in matter.
- B) Energy is a type of liquid, matter is a type of gas.
- C) Matter is only found in solid objects, energy is found in liquids.
- D) Matter and energy are exactly the same thing in every case.

Answer: Matter has mass and occupies space, while energy causes changes in matter.

102). A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on, till the topmost floor is numbered 6. B lives on an odd numbered floor but not 3. The sum of the floors on which C and B live is 4. Only three people live between D and F. A lives immediately above E. The sum of the floors on which E and D live is 10. What is the sum of the floors on which C and A live? [Reasoning]

- A) 6
- B) 7
- C) 8
- D) 9

Answer: 8

103). Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1. Calmed 2. Choice 3. Circle 4. Candid 5. Censor [Reasoning]

- A) 1, 4, 5, 2, 3
- B) 4, 1, 5, 3, 2
- C) 1, 4, 2, 5, 3
- D) 1, 4, 3, 2, 5



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Answer: 1, 4, 5, 2, 3

104). In a certain code language, 'ball owl grape' is coded as 'bo iq ib' and 'game ball corn' is coded as 'iq mx zr'. How is 'ball' coded in that language? [Reasoning]

- A) iq
- B) bo
- C) ib
- D) mx

Answer: iq

105). Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.) [Reasoning]

- A) TSV
- B) POR
- C) FEH
- D) MNO

Answer: MNO

106). Which wildlife sanctuary is located in Kinnaur district? [HP GK]

- A) Shikari Wildlife Sanctuary
- B) Majathal Wildlife Sanctuary
- C) Rupri Bhaba Wildlife Sanctuary
- D) Kugti Wildlife Sanctuary



Answer: Rupri Bhaba Wildlife Sanctuary

107). Which of the following is described as the 'fruit bowl of the country'? [HP GK]

- A) Uttar Pradesh
- B) Punjab
- C) Haryana
- D) Himachal Pradesh

Answer: Himachal Pradesh

108). How many seats are there in the Himachal Pradesh Legislative Assembly? [HP GK]

- A) 72
- B) 68
- C) 60
- D) 70

Answer: 68

109). A local authority aims to replicate Himachal Pradesh's successful initiative that strengthened communication between citizens and administrators. Which scheme should they examine? [HP GK]

- A) Mukhya Mantri Swavlamban Yojana
- B) Prakritik Kheti Khushhal Kisan Yojana
- C) Himachal Grihini Suvidha Yojana
- D) Jan Manch

Answer: Jan Manch

110). Choose the correct preposition to complete the sentence. Romeo and Juliet was written \_\_\_\_\_ William Shakespeare. [English]

- A) at
- B) by
- C) over
- D) for

Answer: by

111). Select the option from the given alternatives that can be used as a one-word substitute for the given phrase. Misappropriation of money [English]

- A) Embezzlement
- B) Confiscate
- C) Prank
- D) Scam

Answer: Embezzlement



112). In the given question, a statement divided into different segments is given. Rearrange all the segments to form a coherent statement. Other efforts on biodiversity, oceans, transport, energy, cities, and food systems(P) / Next year gives us a wealth of opportunities (Q) / Through major United Nations conferences and (R) / To address our planetary emergencies(S) /

[English]

A) QPSR

B) PSQR

C) PRQS

D) QSRP

Answer: QSRP

113). Select the option that expresses the given sentence in the future continuous tense.

The musician composes new melodies for her album.

[English]

A) The musician will compose new melodies for her album.

B) The musician will have composed new melodies for her album.

C) The musician will be composing new melodies for her album.

D) The musician is going to compose new melodies for her album.

Answer: The musician will be composing new melodies for her album.

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114). Select the most appropriate synonym of the given word. Jubilant

[English]

A) Depressed

B) Crestfallen

C) Ecstatic

D) Downcast

Answer: Ecstatic

115). Select the most appropriate proverb to substitute for the highlighted segment in the given sentence: We must not depend on future opportunities; we should make use of what we have now. [English]

- A) make hay while the sun shines
- B) cross the bridge before we come to it
- C) count our chickens before they hatch
- D) look before we leap

Answer: make hay while the sun shines

116). नमिन्लखिति वकिल्पो में से दएि गये वक्त्वांश के लएि सार्थक शब्द का चयन करें- जो बनिा वेतन के काम करता हो [Hindi]

- A) वैतनकि
- B) सेवक
- C) दास
- D) अवैतनकि

Answer: अवैतनकि

117). कारक की दृष्टि से दएि गये वक्त्वांश का शुद्ध रूप चुनें-- अच्छी सेहत में हमें रोज़ाना कसरत और योग करना चाहिए। [Hindi]

- A) अच्छी सेहत पर हमें रोज़ाना कसरत और योग करना चाहिए।
- B) अच्छी सेहत से हमें रोज़ाना कसरत और योग करना चाहिए।
- C) अच्छी सेहत के लएि हमें रोज़ाना कसरत और योग करना चाहिए।
- D) अच्छी सेहत द्वारा हमें रोज़ाना कसरत और योग करना चाहिए।

Answer: अच्छी सेहत के लएि हमें रोज़ाना कसरत और योग करना चाहिए।



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118). नमिंनलखिति में से कसि वाक्य में ललि संबन्धी त्रुटिनिही है?

[Hindi]

- A) संसद में नया वधियक पर चर्चा हुआ।
- B) संसद में नई वधियक पर चर्चा हुई।
- C) संसद में नए वधियक पर चर्चा हुई।
- D) संसद में नया वधियक पर चर्चा हुई।

Answer: संसद में नए वधियक पर चर्चा हुई।

119). रवनि अपने बेटे को बहुत समझाया पर वह नहीं माना और गलत संगत में पड़ कर जेल चला गया। यहाँ कौन-सी लोकोक्तिसिही है ?

[Hindi]

- A) भैंस के आगे बीन बजाना
- B) वनिश काले वपिरीत बुद्धि
- C) काल के हाथ कमान, बूढ़ा बचे न जवान
- D) सुनएि सबकी करएि मन की

Answer: भैंस के आगे बीन बजाना

120). नमिंनलखिति वाक्य में रेखांकित शब्द का पर्यायवाची है- 'सफलता पाने के लएि नरितर प्रयत्न करना आवश्यक है।'

[Hindi]

- A) प्रयास
- B) प्रणेता
- C) प्रभाव
- D) प्रस्तुत



Answer: प्रयास