सत्यमेव जयते

रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

CEN 07/2024 - मिनिस्ट्रियल और आइसोलेटेड कोटियाँ / CEN 07/2024 - Ministerial & Isolated Categories

Test Date	12/09/2025
Test Time	4:30 PM - 6:00 PM
Subject	Senior Publicity Inspector

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **Professional Ability**

Q.1 **Who released AlamAra, the first Indian talking film, on 14 March 1931?**

Ans
A. Himanshu Rai
B. V Shantaram
C. Dadasaheb Phalke
D. Ardeshir Irani

Q.2 **In Newcomb's model of communication, what is the primary function of communication within a social system?**

Ans
A. To transmit information with minimal distortion across technical channels
B. To maximise the reach of mass messages to dispersed audiences
C. To encode and decode messages between isolated communicators
D. To maintain equilibrium within a social system

Q.3 **Which of the following is the expansion of the acronym RACE coined by John Marston in Public Relations?**

Ans
A. Recording, Annotating, Compiling and Extending
B. Repeating, Actioning, Championing and Extrapolating
C. Reading, Adding, Comprehending and Expanding
D. Research, Action Planning, Communication and Evaluation

Q.4 **Which Public Relations process model emphasises continuous communication and mutual understanding between organisations and the public?**

Ans
A. Two-way symmetrical model
B. RACE model
C. One-way publicity model
D. Diffusion of innovations

Q.5 **Under The Press and Registration of Books Act, 1867, a declaration for printing newspapers must be made before the:**

Ans
A. Governor
B. District Magistrate
C. PCI Chairman
D. Information Minister

Q.6 **According to the Transactional Model of Communication, what is a key characteristic that distinguishes it from other models?**

Ans

A. It focuses solely on visual communication.

B. It views communication as a single-way process.

C. It emphasises the role of encoding in communication.

D. It recognises that both parties in a conversation are simultaneously senders and receivers.

Q.7 **During the phatic stage of interpersonal communication, the primary focus is on:**

Ans

A. establishing social contact through routine or small-talk exchanges

B. negotiating the deeper meaning of messages for long-term relationships

C. resolving conflicts by addressing underlying relational issues

D. sharing detailed personal narratives to strengthen emotional bonds

Q.8 **Which ethical challenge is most associated with the immediacy of new media platforms?**

Ans

A. Lack of advertising revenue

B. Rapid spread of unverified information

C. Decline in print readership

D. Difficulty in covering rural areas

Q.9 **Which of the following is an example of intrapersonal communication?**

Ans

A. Participating in an online discussion board

B. Mentally rehearsing a speech

C. Debating an idea with a peer in a study group

D. Delivering a presentation to a live audience

Q.10 **Vlogs on YouTube are derived from which of the following terms?**

Ans

A. Variety of Logs

B. Video Blogs

C. Verifiable Blogs

D. Viewer Logs

Q.11 **Which of the following illustrates dyadic communication within the scope of interpersonal communication?**

Ans

A. Two colleagues discussing a project over coffee

B. A news anchor reading headlines on live television

C. A teacher delivering a lecture to a large class

D. An online forum where hundreds post comments simultaneously

Q.12 **Which of the following is an example of a transformational appeal in creative advertising?**

Ans

A. A detergent ad showing stain removal power

B. A public service ad showing accident statistics

C. A bank promoting its low interest rate

D. A perfume brand associating itself with romance and sophistication

Q.13 **One-sided psychological relationships where an audience feels connected to a media figure such as a celebrity is called:**

Ans

A. Dyadic Communication

B. Parasocial Interaction

C. Interactive Dialogue

D. Two-Step Flow Communication

Q.14 **The Directorate of Advertising and Visual Publicity (DAVP), now known as the Central Bureau of Communication (CBC), primarily serves as:**

Ans

A. an industry trade body

B. a private advertising consortium

C. a media watchdog

D. the nodal agency for government advertising

Q.15 **Which of the following is NOT a benefit of interpersonal communication?**

Ans

A. Resolving conflicts through direct interaction

B. Enhancing self-awareness through internal dialogue

C. Facilitating personal and professional relationship development

D. Building trust and transparency between individuals

Q.16 **Which of the following is an example of application software?**

Ans

A. Device Driver

B. Linux Kernel

C. MS Word

D. Windows 10

Q.17 **The TARES test in Public Relations stands for which of the following?**

Ans

A. Timing, Advocacy, Respect, Engagement, Sincerity

B. Transparency, Accuracy, Reliability, Efficiency, Sustainability

C. Truthfulness, Authenticity, Respect, Equity, Social Responsibility

D. Truth, Accuracy, Relevance, Ethics, Sustainability

Q.18 **The Helical Model of Communication was developed by:**

Ans

A. Wilbur Schramm

B. Claude Shannon

C. Harold Lasswell

D. Frank Dance

Q.19 **Which scholar is associated with the concept of frame analysis, examining how individuals and media construct social reality through interpretive frameworks?**

Ans

A. Erving Goffman

B. Harold Lasswell

C. Everett Rogers

D. Wilbur Schramm

Q.20 **Lasswell's model of communication is best described by which formula?**

Ans

A. Source → Transmitter → Channel → Receiver → Destination

B. Sender → Feedback → Receiver

C. Uses and Gratifications

D. Who? Says what? In which channel? To whom? With what effect?

Q.21 **In which year was the All India Radio renamed 'Akashvani?'**

Ans

A. 1959

B. 1954

C. 1956

D. 1957

Q.22 The function of mass communication that involves selecting, shaping and transmitting messages to influence attitudes or behaviour is:

Ans

A. persuasion

B. entertainment

C. surveillance

D. correlation

Q.23 Arrange the following communication landmarks in chronological order of invention.
a. Telegraph
b. Charles Babbage develops the first mechanical computer
c. Telephone
d. Lumière brothers exhibit their first motion picture

Ans

A. c,b,a,d

B. d,b,c,a

C. b,a,c,d

D. a,b,c,d

Q.24 The process of creating an image or identity in the minds of the target market for a brand is called:

Ans

A. market segmentation

B. positioning

C. differentiation

D. targeting

Q.25 The role of an advertising agency in account servicing primarily involves:

Ans

A. conducting production work

B. managing creative design

C. building and maintaining client relationships

D. negotiating media rates

Q.26 When mass media interpret events and issues, providing context and meaning for audiences, they are performing which function?

Ans

A. Correlation

B. Gatekeeping

C. Surveillance

D. Entertainment

Q.27 Which of the following is a primary economic function of advertising?

Ans

A. Regulating media content

B. Stimulating demand for products and services

C. Promoting interpersonal communication

D. Creating social awareness

Q.28 In an ad agency, the person who oversees major client accounts, aligns internal teams with strategic objectives, approves final work and manages client relations and budgets is called:

Ans

A. Creative Director

B. Media Planner

C. Copy Writer

D. Account Director

Q.29 **News about films playing at local theatres, stock market updates, weather reports and announcements of new products are examples of which media function?**

Ans

A. Cultural transmission

B. Instrumental surveillance

C. Interpretive framing

D. Social integration

Q.30 **The term 'blogroll' refers to:**

Ans

A. a type of blog post with visuals

B. a list of recommended links to other blogs

C. a method of SEO ranking

D. the analytics dashboard of a blog

Q.31 **Which of the following is an example of asynchronous communication?**

Ans

A. Posting a comment on a social media post and getting a reply later

B. Participating in a real-time online gaming voice chat

C. Speaking with a friend over a live phone conversation

D. Taking part in a live video conference discussion

Q.32 **What is the specific term given to any event that takes place in a physical venue while also being attended by a live and interactive audience online?**

Ans

A. Hybrid

B. Targeted

C. Community

D. Networking

Q.33 **A communication researcher studies how a mobile payment app spreads through rural communities, identifying early adopters and the stages from awareness to adoption. Which media theory explains this process?**

Ans

A. Uses and Gratifications Theory

B. Diffusion of Innovations Theory

C. Two-Step Flow Theory

D. Agenda-Setting Theory

Q.34 **The Copyright Act, 1957, primarily protects which of the following?**

Ans

A. Literary, artistic and musical works

B. Government revenue

C. Media ownership patterns

D. Industrial patents

Q.35 **____ is a video-sharing website, created by three former Pay Pal employees in February 2005.**

Ans

A. Dailymotion

B. Metacafe

C. Vimeo

D. YouTube

Q.36 **How many photos can a user attach to a single post on X (formerly Twitter)?**

Ans

A. 3

B. 4

C. 2

D. 5

Q.37 **The Press Council's guidelines on reporting sub judice matters require:**

Ans

A. avoiding any comment that could prejudice trial outcomes

B. ignoring witness testimonies

C. reporting only after verdict

D. publishing opinions alongside court coverage

Q.38 **A science teacher uses the term 'cell' in a biology class, but some students think of a prison cell instead. This misinterpretation is an example of:**

Ans

A. Psychological noise

B. Semantic noise

C. Channel noise

D. Physical noise

Q.39 **_____ is anything that is added to the signal between its transmission and reception that is not intended by the source.**

Ans

A. Encoding

B. Decoding

C. Noise

D. Entropy

Q.40 **The vocal but nonverbal aspects of speech such as pitch range, resonance and tempo are called:**

Ans

A. Olfactory Communication

B. Colloquial Language

C. Paralanguage

D. Symbolic Communication

Q.41 **The Triple-Bottom-Line approach in event management emphasises evaluation based on:**

Ans

A. safety, logistics, and media coverage

B. revenue, sponsorship and branding

C. economic, social and environmental impact

D. stakeholder satisfaction and ticket sales

Q.42 **The location a brand occupies in consumers' minds relative to its competitors is called:**

Ans

A. Brand Position

B. Brand Architecture

C. Brand Identity

D. Unique Selling Property

Q.43 **What is the main objective of the Official Secrets Act, 1923?**

Ans

A. To prevent unauthorised sharing of sensitive information

B. To protect government revenue

C. To regulate media ownership

D. To ensure free flow of information

Q.44 **Which of the following statements about computer memory is correct?**

Ans

A. Cache memory is faster than RAM but smaller in size.

B. Virtual memory is a type of physical memory located inside the CPU.

C. RAM is non-volatile and retains data even after the power is turned off.

D. ROM is volatile and loses data when the computer is turned off.

Q.45 **Which type of advertising is considered unethical because it presents sponsored messages as independent editorial content?**

Ans

A. Reminder advertising

B. Comparative advertising

C. Endorsement advertising

D. Native advertising without disclosure

Q.46 **A _____ specialist will communicate with opinion formers such as local or national politicians to monitor the political environment.**

Ans

A. Investor Relations

B. Public Affairs

C. Media Relations

D. Community Relations

Q.47 **Which of the following is generally considered a key advantage of using an in-house advertising agency?**

Ans

A. Greater independence from corporate strategy

B. Access to a large pool of external creative talent

C. Lower creative quality compared to external agencies

D. Closer alignment with the organisation's objectives and quicker coordination

Q.48 **The Advertising Agencies Association of India (AAAI) is best described as:**

Ans

A. an association of broadcast journalists

B. a government department for public communication

C. an apex industry body representing advertising agencies

D. a media certification bureau

Q.49 **Which of the following would be an UNETHICAL practice in Public Relations?**

Ans

A. Fostering client-publics communication

B. Respecting client privacy

C. Representing conflicting clients

D. Collaborating with clients

Q.50 **In the Windows operating system, which of the following best describes the purpose of the Windows Registry?**

Ans

A. It is a hidden folder that stores user documents and pictures.

B. It stores only temporary files used by running applications.

C. It is an encryption system used to secure files and folders.

D. It is a hierarchical database that stores configuration settings and options for the operating system and installed applications.

Section : **General Ability**

Q.51 **Which of the following statements best explains how translocation occurs in phloem?**

Ans

A. It occurs due to gravitational pull.

B. It is an active process requiring energy.

C. It is a passive process involving diffusion.

D. It happens due to capillary action.

Q.52 **Which incident led Mahatma Gandhi to launch the Non-Cooperation Movement in 1920?**

Ans

A. Partition of Bengal

B. Simon Commission's arrival in India

C. Jallianwala Bagh massacre

D. Arrest of Bal Gangadhar Tilak

Q.53 **How did the Green Revolution impact farming time and productivity with regard to machinery usage?**

Ans

A. There was significant increase in the use of machinery, which led to high productivity and low farming time.

B. There was decreased reliance on agricultural machinery and thus low productivity.

C. Machinery usage remained unchanged, hence there was no impact on farming time or productivity.

D. It only impacted traditional hand tools, which led to an increase in farming time and decreased productivity.

Q.54 Find the value of

$$6\frac{4}{11} \div 3\frac{2}{11} \text{ of } 2 + 5\frac{1}{3} \text{ of } \frac{3}{8} \div 4 + 5 \times 2$$

Ans

A. 11.5

B. 18

C. 14

D. 16.5

Q.55 **In August 2025, the Government of India approved four semiconductor projects under the India Semiconductor Mission (ISM) to be set-up in which three states with an outlay of ₹4,600 crore?**

Ans

A. Gujarat, Assam and Andhra Pradesh

B. Maharashtra, Odisha and Uttar Pradesh

C. Odisha, Punjab and Andhra Pradesh

D. Punjab, Bihar and Gujarat

Q.56 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster 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.)

Ans

A. SVQ

B. QTO

C. ORM

D. MPL

Q.57 **FAEG is related to MHLN in a certain way based on the English alphabetical order. In the same way, IDHJ is related to PKOQ. To which of the given options is LGKM related, following the same logic?**

Ans

A. NSTR

B. NSRT

C. SNRT

D. SNTR

Q.58 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**

DEW30 JKC45 PQI60 VWO75 ?

Ans

A. ECU90

B. BCV90

C. BDU90

D. BCU90

Q.59 Prime Minister Narendra Modi released the 20th instalment of the Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) scheme in August 2025 from which place?

Ans

A. Darbhanga

B. Varanasi

C. Prayagraj

D. Bhagalpur

Q.60 What is a common feature of the stigma in flowering plants?

Ans

A. Thin and pointed for support

B. Rough and dry for protection

C. Sticky to catch pollen grains

D. Thick and stores egg cells

Q.61 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:

Some quilts are televisions.
Some televisions are lights.

Conclusions:

(I) Some quilts are lights.
(II) All lights are televisions.

Ans

A. Both conclusions (I) and (II) follow.

B. Only conclusion (I) follows.

C. Neither conclusion (I) nor (II) follows.

D. Only conclusion (II) follows.

Q.62 Which British policy allowed the annexation of Indian states whose rulers died without a natural heir?

Ans

A. Permanent Settlement

B. Subsidiary Alliance

C. Dual Government

D. Doctrine of Lapse

Q.63 Raju obtained 75 and 85 marks in mathematics and physics, respectively. Find the marks he must get in chemistry to have an average of 80 marks in all the three subjects.

Ans

A. 90

B. 60

C. 80

D. 70

Q.64 Refer to the following letter series and answer the question that follows.

(Left) G D U E Y Q E W P A E U S J F D A M B N U (Right)

If alternate letters are removed from the series, with G being the first letter to be removed, then which is the seventh letter from the left in the newly formed new series?

Ans

A. J

B. D

C. A

D. U

Q.65 What should come in place of the question mark (?) in the given series?

81 97 ? 141 169 201

Ans

A. 123

B. 111

C. 101

D. 117

Q.66 What is the primary function of epithelial tissue in the animal body?

Ans

A. Transport of oxygen

B. Coordination and control

C. Covering and protection

D. Contraction and movement

Q.67 Identify the correct match between the compound and type of carbon-carbon bond.

Compound	C–C bond type
(i) Ethane	(a) Double bond
(ii) Ethene	(b) Single bond
(iii) Ethyne	(c) Triple bond

Ans

A. i–c, ii–b, iii–a

B. i–a, ii–b, iii–c

C. i–b, ii–a, iii–c

D. i–b, ii–c, iii–a

Q.68 A, B, C, D, P, Q and R are sitting around a circular table facing the centre of the table. Only two people sit between R and D when counted from the left of D. P sits third to the left of B. Q sits to the immediate right of B. Q sits second to the left of R. C is not an immediate neighbour of P. Who sits third to the right of A?

Ans

A. D

B. Q

C. B

D. R

Q.69 Given below are two statements. Select the correct answer from the options given for these statements.

Statement I: Particles of matter are continuously moving, that is, they possess what we call kinetic energy.
Statement II: With increase in temperature, the kinetic energy of the particles also increases.

Ans

A. Both statements are false.

B. Statement I is true, but Statement II is false.

C. Both statements are true.

D. Statement I is false, but Statement II is true.

Q.70 A bookstore offers a scheme: 'Buy books worth ₹1,200 or more and get ₹200 off'. If a customer buys books worth ₹1,500, what is the effective discount percentage?

Ans

A. $12\frac{2}{3}\%$

B. $16\frac{1}{3}\%$

C. $13\frac{1}{3}\%$

D. $15\frac{2}{3}\%$

Q.71 **Refer to the number series given below and answer the question that follows. Counting to be done from left to right only. (All numbers are single-digit numbers only.)**

(Left) 6 2 1 5 7 3 7 8 5 3 4 5 2 4 8 4 3 6 9 7 4 2 1 5 7 9 1 (Right)

How many such odd digits are there each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

Ans

A. 4

B. 3

C. 2

D. 5

Q.72 **Absolute refractive index of a medium is the ratio of the speed of light in _____ to the speed of light in _____.**

Ans

A. medium; vacuum

B. medium; air

C. vacuum; medium

D. air; medium

Q.73 **The first edition of the Khelo India Beach Games (KIBG), held under the Khelo India banner in May 2025, took place at which location?**

Ans

A. Panaji

B. Chennai

C. Diu

D. Vishakhapatnam

Q.74 **Which of the following statements best describe the outcome of the British building the Coast Canal on the Odisha coast?**

Ans

A. It proved uneconomical and was eventually abandoned due to competition from railways.

B. It was highly successful and improved trade in the region.

C. It became a major mode of transport, reducing railway use in the area.

D. It became economically viable due to competition with parallel railway lines.

Q.75 **Which of the following features enables plants to regenerate damaged tissues more efficiently than animals?**

Ans

A. The presence of chloroplasts

B. A rigid cell wall

C. The presence of meristematic tissues

D. A large central vacuole

Q.76 If $\left(\frac{5}{3}\right)^{x-3} = \frac{3125}{243}$, find the value of $\left(\frac{5}{3}\right)^{\frac{x}{2}}$.

Ans

A. $\frac{25}{9}$

B. $\frac{625}{81}$

C. $\frac{5}{3}$

D. $\frac{125}{27}$

Q.77 **In which of the following States are there two houses, known as Legislative Council and Legislative Assembly (bicameral legislatures)?**

Ans

A. Rajasthan

B. Punjab

C. Gujarat

D. Bihar

Q.78 What is the median of the following distribution?

Class	120-170	170-220	220-270	270-320	320-370
Frequency	33	13	10	31	11

Ans

A. 229

B. 219

C. 235

D. 237

Q.79 **In a certain code language, 'come on time' is coded as 'lk pg jk' and 'on the way' is coded as 'tm jk po'. How is 'on' coded in the given language? (All codes are two-letter codes.)**

Ans

A. po

B. tm

C. jk

D. pg

Q.80 **In a certain code language, 'GLAM' is coded as '4236' and 'MALE' is coded as '4396'. What is the code for 'E' in the given code language?**

Ans

A. 2

B. 4

C. 9

D. 3

Q.81 **In a school library, the ratio of fiction books to non-fiction books is 4 : 3. If there are 240 fiction books, how many non-fiction books are there?**

Ans

A. 160 books

B. 200 books

C. 140 books

D. 180 books

Q.82 **Who is the first Indian to win two medals in the same edition of the Olympics (post-Independence)?**

Ans

A. Sushil Kumar

B. Neeraj Chopra

C. Manu Bhaker

D. Abhinav Bindra

Q.83 **Which launch vehicle was used to launch the NISAR satellite from ISRO's Satish Dhawan Space Centre (SDSC) in July 2025?**

Ans

A. GSLV-F16

B. PSLV-C60

C. PSLV-C61

D. GSLV-F15

Q.84 Initially, the population of a town was 80,000 and increases at the rate of R%. If the population becomes 1,06,480 after three years, then the value of R is:

Ans

A. 9.5

B. 10

C. 11

D. 11.5

Q.85 Which Union Territory was merged with Dadra and Nagar Haveli to form the new Union Territory on 26 January 2020?

Ans

A. Daman and Diu

B. Andaman and Nicobar Islands

C. Puducherry

D. Chandigarh

Q.86 This question is based on the following words.
COZ SYE ROB HEM
In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans

A. Two

B. One

C. Four

D. Three

Q.87 A man travels 200 km at 50 km/hr, and the next 300 km at 60 km/hr. What is his average speed (in km/hr) for the whole journey?
(Rounded off to two decimal places)

Ans

A. 60.55

B. 55.56

C. 50.55

D. 45.55

Q.88 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(31, 58, 85)
(64, 91, 118)

Ans

A. (52, 79, 106)

B. (68, 95, 112)

C. (31, 58, 75)

D. (76, 103, 120)

Q.89 Which of the following statements are correct?
(i) Melting point indicates the strength of forces of attraction between particles.
(ii) During melting, temperature of the solid remains constant until it has completely melted.
(iii) Boiling is a surface phenomenon.
(iv) Steam at 373 K has more energy than water at 373 K.

Ans

A. (i), (iii) and (iv) only

B. (i), (ii) and (iv) only

C. (ii) and (iii) only

D. (i), (ii), (iii) and (iv)

Q.90 If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '−' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

18 P 2 R 4 Q 2 S 6 P 2 R 1 = ?

Ans
A. 43
B. 48
C. 42
D. 45

Q.91 Which of the following is NOT true about the Universal Law of Gravitation?

Ans
A. It helps in discovering new stars and planets.
B. It is used to study the lifetime of planets.
C. It is used to study the motion of the Moon around the earth.
D. It is used to determine the mass of the Sun.

Q.92 In a computer game, a builder can build a wall in 10 hours while a destroyer can completely demolish such a wall in 20 hours. In the beginning, both builder and destroyer were set to work together on a basic level. But after 15 hours the destroyer was withdrawn. What was the total time (in hours) taken to build the wall?

Ans
A. 16.5
B. 17.5
C. 17
D. 16

Q.93 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

XZA−YAB
CEF−DFG

Ans
A. JLM−KMN
B. JLM−JMM
C. JKK−KMN
D. JKK−JLM

Q.94 Which of the following rivers make the largest delta in India?

Ans
A. Godavari and Kaveri
B. Yamuna and Chambal
C. Mahanadi and Krishna
D. Ganga and Brahmaputra

Q.95 Which of the following Acts of the Indian Constitution empowered the President of India to constitute a GST Council by an order within sixty days from the date of commencement of the 101st Constitution Act, 2016?

Ans
A. Article 329-A
B. Article 280
C. Article 279A(1)
D. Article 239-A

Q.96 Seven boxes E, F, G, H, S, T and U are kept one over the other but not necessarily in the same order. Only H is kept above E. Only T is kept between E and S. Only F is kept below U.
How many boxes are kept between G and F?

Ans
A. Three
B. Four
C. Two
D. One

Q.97 If the area of a rhombus is 10 cm^2 and one of its interior angles is 150°, what is the perimeter (in cm) of the rhombus?

Ans

A.

B. 20

C. $4\sqrt{2}$

D. $8\sqrt{5}$

Q.98 Which of these phenomena causes sudden rainfall in northwestern India during winter?

Ans

A. Western disturbances

B. Cyclones from the Bay of Bengal

C. El Nino

D. South-west monsoon

Q.99 What will happen when the forces acting on an object are unbalanced?

Ans

A. The object's direction will not change.

B. The object's velocity will remain constant.

C. The object will accelerate in the direction of the net force.

D. The object will remain stationary.

Q.100 In the carbon cycle, which of the following processes releases carbon dioxide back into the atmosphere?

Ans

A. Assimilation

B. Respiration

C. Carbon sequestration

D. Photosynthesis