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सत्यमेव जयते

रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

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

Test Date	11/09/2025
Test Time	4:30 PM - 6:00 PM
Subject	Laboratory Assistant School

*** 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 **Which of the following is NOT a characteristic feature of eukaryotic cells?**

Ans
✗ A. Organised genetic material
✗ B. Presence of membrane-bound organelles
✓ C. Absence of nucleus
✗ D. Presence of nuclear envelope

Q.2 **In the root tip, the region of maturation is situated:**

Ans
✗ A. immediately below the meristematic region
✗ B. surrounding the root cap
✗ C. adjacent to the shoot apex
✓ D. proximal to the region of elongation

Q.3 **When comparing the stability of carbocations, which trend is directly supported by hyperconjugation theory?**

Ans
✗ A. Secondary > Tertiary > Primary > CH_3^+
✗ B. CH_3^+ > Primary > Secondary > Tertiary
✗ C. Primary > Tertiary > Secondary > CH_3^+
✓ D. Tertiary > Secondary > Primary > CH_3^+

Q.4 A gas system is absorbing 300 J of heat (Q) from the surrounding and work (W) done on the system is 60 J. What is the change in the internal energy (ΔU) of the system?

Ans
✓ A. $360\ J$
✗ B. $-240\ J$
✗ C. $60\ J$
✗ D. $240\ J$

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Q.5 The magnitude of restoring force $F = 50.0$ N, and displacement (x) of marble from its equilibrium position is 0.5 m. What will be the value of force constant (k)?

Ans

✗ A. $25.0\ \frac{N}{m}$

✗ B. $5.0\ \frac{N}{m}$

✓ C. $100.0\ \frac{N}{m}$

✗ D. $50.0\ \frac{N}{m}$

Q.6 **Select the INCORRECT characteristic of the vascular tissue system in dicot stems.**

Ans

✗ A. Phloem and xylem are arranged side by side.

✗ B. They form secondary xylem and phloem.

✗ C. Vascular bundles are open.

✓ D. Cambium is absent.

Q.7 A force $\vec{F} = (2\hat{i} + 3\hat{j})$ N acts on a particle at a position vector $\vec{r} = (5\hat{i} + \hat{j})$ m with respect to origin. What is the magnitude of the torque $(\vec{\tau})$ about the origin?

Ans

✓ A. 13 N.m

✗ B. 26 N.m

✗ C. 17 N.m

✗ D. 34 N.m

Q.8 **Match the items in Column A with their correct counterparts in Column B.**

Column A	Column B
a- Plastids	1- Animal cell
b- Centriole	2- Plant cell
c- Plasmid	3- Bacteria

Ans

✓ A. a - 2, b - 1, c - 3

✗ B. a - 1, b - 3, c - 2

✗ C. a - 2, b - 3, c - 1

✗ D. a - 1, b - 2, c - 3

Q.9 **Why are aromatic hydrocarbons immiscible with water?**

Ans

✓ A. They are non-polar molecules.

✗ B. They are heavier than water.

✗ C. They are solid at room temperature.

✗ D. They have high density.

Q.10 **In the human body, the oral cavity opens into which structure that acts as a shared pathway for both food and air?**

Ans

✗ A. Stomach

✗ B. Larynx

✗ C. Intestine

✓ D. Pharynx

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Q.11 Which of the following correctly defines a Lewis acid?

Ans
- ✔ A. Species that accepts a shared electron pair
- ✘ B. Species that accepts a proton from another
- ✘ C. Species that donates a shared electron pair
- ✘ D. Species that donates a proton to another

Q.12 Which of the following represents the shape of an s-orbital?

Ans
- ✘ A. Cylinder shape stretched along the z-axis
- ✔ B. Sphere with equal density around the centre
- ✘ C. Dumbbell form with two lobes on one axis
- ✘ D. Clover type with four lobes in one plane

Q.13 Which of the following is an equivalent Clausius statement of second law of thermodynamics?

Ans
- ✘ A. The total momentum of a system of particles is conserved in the absence of external forces.
- ✘ B. The internal energy of an ideal gas depends only on its temperature.
- ✘ C. The total energy of an isolated system is conserved.
- ✔ D. Heat cannot flow from a cold body to a hot body without work being done on the system.

Q.14 In a cubic close-packed (ccp) crystal lattice, which voids remain unoccupied by atoms and account for less than perfect packing efficiency?

Ans
- ✘ A. Hexagonal and cubic pockets within the atomic stacking sequence
- ✘ B. Cubic and square-shaped cavities created by imperfect atomic arrangements
- ✘ C. Rectangular and triangular interstitial spaces between lattice points
- ✔ D. Tetrahedral and octahedral interstitial voids formed between atomic layers

Q.15 The long, thread-like part of a neuron that carries impulses away from the cell body to other cells is called the _____.

Ans
- ✔ A. axon
- ✘ B. synaptic knob
- ✘ C. cell body
- ✘ D. dendrite

Q.16 If the engine absorbs 1000 J of heat from the hot reservoir, what is the amount of heat rejected to the cold reservoir? (Given, efficiency of engine $\eta = 50\%$)

Ans
- ✘ A. 1250 J
- ✘ B. 750 J
- ✔ C. 500 J
- ✘ D. 1500 J

Q.17 What is the time period (T) of a particle undergoing simple harmonic motion, when the angular frequency (ω) is 8π $^{rad}/_{sec}$?

Ans
- ✔ A. 0.25 sec
- ✘ B. $16\pi^2$ sec
- ✘ C. 1.0 sec
- ✘ D. 0.5 sec

Q.18 The Balmer series of hydrogen atom lies in which region of the electromagnetic spectrum?

Ans
- ✘ A. Ultraviolet
- ✔ B. Visible
- ✘ C. Microwave
- ✘ D. Infrared

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Q.19 What happens to the equilibrium constant Kc if the chemical equation is multiplied by n?

Ans

✗ A. Kc is multiplied directly by n

✓ B. Kc is raised to the power n

✗ C. Kc is divided by n

✗ D. Kc stays the same as before

Q.20 If a charge q experiences a force F in an electric field E, then E equals _____.

Ans

✗ A. $\frac{q}{F}$

✗ B. $F \cdot q$

✗ C. $\frac{q^2}{F}$

✓ D. $\frac{F}{q}$

Q.21 In a body-centred cubic unit cell, the atom at the centre:

Ans

✗ A. is shared between two neighbouring cells

✗ B. is shared by eight adjacent unit cells

✗ C. is positioned at the centre of a face

✓ D. belongs fully to that single unit cell

Q.22 Which of the following parts form the Central Nervous System (CNS) in humans?

Ans

✓ A. Brain and spinal cord

✗ B. Brain only

✗ C. Spinal cord and peripheral nerves

✗ D. Brain and cranial nerves

Q.23 Which of the following is an important aspect of meiosis?

Ans

✗ A. Doubles the chromosome number

✓ B. Produces variation

✗ C. Eliminates chromosomes

✗ D. Prevents reproduction

Q.24 What is the direction of moment of force (torque ($\vec{\tau}$)), when the position vector ($\vec{r}$) points in $x-$axis and force ($\vec{F}$) points in $y-$axis?

Ans

✗ A. $\text{negative } y-\text{axis}, (-\hat{j})$

✗ B. $\text{positive } x-\text{axis}, (+\hat{i})$

✓ C. $\text{positive } z-\text{axis}, (+\hat{k})$

✗ D. $\text{negative } z-\text{axis}, (-\hat{k})$

Q.25 Collenchyma is a type of ground tissue. Similarly, stomata belongs to which type of tissue?

Ans

✗ A. Meristematic tissue

✗ B. Parenchyma tissue

✗ C. Vascular tissue

✓ D. Epidermal tissue

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Q.26 Meiosis is a type of cell division that results in the formation of haploid cells (gametes) by _____.

Ans
- ✗ A. keeping the chromosome number the same
- ✓ B. reducing chromosome number to half
- ✗ C. doubling the chromosome number
- ✗ D. randomly changing the chromosome number

Q.27 Pair the terms to complete the analogy.
Bacteria Cell Wall : Peptidoglycan :: Fungi : _____

Ans
- ✗ A. Lipids
- ✗ B. Proteins
- ✗ C. Nucleic acids
- ✓ D. Chitin and polysaccharides

Q.28 Fucoxanthin is the pigment responsible for colouration in _____.

Ans
- ✗ A. rhodophyceae
- ✗ B. cyanobacteria
- ✗ C. chlorophyceae
- ✓ D. phaeophyceae

Q.29 Why can water act as a nucleophile?

Ans
- ✗ A. It has no electrons.
- ✓ B. It has lone electron pairs.
- ✗ C. It is completely inert.
- ✗ D. It is always positively charged.

Q.30 Which of the following is an example of a liquid solution containing a gas solute?

Ans
- ✓ A. Oxygen dissolved in water
- ✗ B. Chloroform mixed with nitrogen gas
- ✗ C. Copper dissolved in gold
- ✗ D. Mercury amalgam with sodium

Q.31 What is the critical temperature of a gas?

Ans
- ✗ A. Temperature when gas molecules completely stop moving
- ✓ B. Highest temperature at which the gas can remain liquid
- ✗ C. Temperature where the gas volume reaches its maximum
- ✗ D. Lowest temperature to liquefy the gas by pressure alone

Q.32 What must be present in a system to have a heterogeneous equilibrium?

Ans
- ✗ A. Reactants and products all in the same phase
- ✗ B. Only aqueous solutions
- ✗ C. Only gaseous reactants and products
- ✓ D. At least two of the distinct phases must be present

Q.33 The stability of nitrogen family configuration is due to:

Ans
- ✓ A. Half-filled p-orbitals in the valence shell
- ✗ B. Completely empty p-orbitals in the valence shell
- ✗ C. Presence of filled f-orbitals in the core shell
- ✗ D. Fully filled d-orbitals in the inner shell

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Q.34 In DNA, the nitrogenous base is attached to the ____ carbon of the pentose sugar.

Ans
- ✗ A. C′5
- ✗ B. C′3
- ✓ C. C′1
- ✗ D. C′2

Q.35 In the reaction $BF_3 + NH_3 \rightarrow F_3B - NH_3$, which is the Lewis acid?

Ans
- ✗ A. NH_3 molecule donating electron pairs
- ✗ B. Fluoride ion present in the molecule
- ✓ C. BF_3 molecule accepting electron pairs
- ✗ D. Covalent bond formed between B and N

Q.36 One major limitation of the Bohr model is that it CANNOT explain:

Ans
- ✗ A. the discrete spectral lines of hydrogen
- ✗ B. the concept of quantised angular momentum
- ✓ C. the relative intensities of spectral lines
- ✗ D. the ionisation energy of hydrogen

Q.37 Which of the following describes a solution of hydrogen in palladium?

Ans
- ✗ A. Gaseous solution with gas solute and solid solvent
- ✗ B. Solid solution with solid solute and solid solvent
- ✗ C. Liquid solution with gas solute and solid solvent
- ✓ D. Solid solution with gas solute and solid solvent

Q.38 Compared to London dispersion forces, dipole-dipole forces are generally:

Ans
- ✗ A. nonexistent
- ✓ B. stronger
- ✗ C. weaker
- ✗ D. of the same strength

Q.39 The binding energy per nucleon (B/A) is maximum for nuclei with mass number (A) around _____.

Ans
- ✗ A. 238
- ✗ B. 1
- ✓ C. 56
- ✗ D. 12

Q.40 The mass defect (ΔM) of a nucleus is defined as:

Ans
- ✗ A. the mass of the nucleus divided by the speed of light squared
- ✗ B. the sum of masses of nucleons
- ✗ C. the loss of mass during radioactive decay
- ✓ D. the difference between the sum of masses of nucleons and the actual mass of the nucleus

Q.41 Which of the following is the essential condition for observing interference fringes in Young's double-slit experiment?

Ans
- ✗ A. The sources emit light of different wavelengths.
- ✗ B. The light is polarised.
- ✓ C. The sources are coherent.
- ✗ D. The slits are wide enough to produce diffraction.

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Q.42 Which experimental evidence contradicts Kekulé's fixed alternating single-double bond structure?

Ans
- ✗ A. Presence of high hydrogen content relative to carbon in molecular formula
- ✗ B. Formation of two distinct 1,2-dibromobenzenes under identical conditions
- ✓ C. Equal bond lengths observed between all carbon atoms in benzene
- ✗ D. Higher reactivity of benzene towards electrophilic substitution than alkynes

Q.43 Pair the terms to complete the analogy.
Planaria : flatworm :: Pleurobrachia : _____

Ans
- ✓ A. Comb jellies
- ✗ B. Echinodermata
- ✗ C. Mollusca
- ✗ D. Porifera

Q.44 Unlike more complex animals, Hydra lacks a centralised brain but exhibits coordinated activity via _____.

Ans
- ✗ A. epithelial cells
- ✓ B. network of neurons
- ✗ C. muscles
- ✗ D. hormones

Q.45 Fluorine exhibits which oxidation state in all its compounds?

Ans
- ✗ A. +1 oxidation state
- ✗ B. 0 oxidation state
- ✗ C. +7 oxidation state
- ✓ D. –1 oxidation state

Q.46 What does the assumption of perfectly elastic molecular collisions imply in kinetic theory?

Ans
- ✗ A. Collisions predominantly occur only under conditions of very low temperature.
- ✓ B. The total kinetic energy of molecules remains unchanged before and after the collision.
- ✗ C. Colliding molecules experience a net loss of kinetic energy upon impact.
- ✗ D. Molecules coalesce temporarily or permanently following collision events.

Q.47 In an eukaryotic cell, _____ is organised into chromosomes inside the nucleus.

Ans
- ✗ A. centriole
- ✓ B. genetic material
- ✗ C. plastid
- ✗ D. cytoskeleton

Q.48 How does the viscosity of a liquid change as temperature rises?

Ans
- ✗ A. It stays the same despite temperature changes.
- ✗ B. It drops to zero at very low temperatures.
- ✓ C. It decreases as molecules move faster and flow easier.
- ✗ D. It increases since molecular motion slows down.

Q.49 The energy difference (ΔE) between n = 3 and n = 2 levels in a hydrogen atom corresponds to _____.

Ans
- ✗ A. 1.51 eV
- ✓ B. 1.89 eV
- ✗ C. 12.09 eV
- ✗ D. 3.4 eV

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Q.50 The main reason atomic size cannot be measured precisely is:

Ans
- ✔ A. The electron cloud lacks a sharp boundary.
- ✘ B. The atom's mass changes with temperature.
- ✘ C. The nucleus is too small to detect accurately.
- ✘ D. Atoms move randomly in all directions.

Section : **General Ability**

Q.51 As per the NITI Aayog's Discussion Paper 'Multidimensional Poverty in India since 2005-06', which state recorded the highest number of people escaping multidimensional poverty in India?

Ans
- ✘ A. Rajasthan
- ✘ B. Madhya Pradesh
- ✔ C. Uttar Pradesh
- ✘ D. Bihar

Q.52 Which Indian Naval Ship (INS) was commissioned in the Indian Navy at the Yantar Shipyard, Kaliningrad, Russia in July 2025?

Ans
- ✘ A. INS Tushil
- ✘ B. INS Udaygiri
- ✔ C. INS Tamal
- ✘ D. INS Himgiri

Q.53 Which of the following Articles of the Indian Constitution provides for the constitution of a State Election Commission in respect to the Panchayats?

Ans
- ✔ A. Article 243K
- ✘ B. Article 243A
- ✘ C. Article 243H
- ✘ D. Article 243D

Q.54 Why does a coin placed at the bottom of a bowl become visible and appear raised when water is poured into the bowl?

Ans
- ✘ A. Because the coin floats when water is added
- ✘ B. Because the coin gets magnified by water
- ✘ C. Because the water reflects more light
- ✔ D. Because of the refraction of light

Q.55 Which of the following is another name for voluntary muscles found in animals?

Ans
- ✔ A. Skeletal muscles
- ✘ B. Smooth muscles
- ✘ C. Sclerenchyma
- ✘ D. Cardiac muscles

Q.56 In August 2025, Union Minister Dr. Jitendra Singh inaugurated India's first-of-its-kind state-of-the-art animal stem cell biobank and animal stem cell laboratory at which of the following institutes?

Ans
- ✘ A. Indian Institute of Science (IISc), Bangalore
- ✔ B. National Institute of Animal Biotechnology (NIAB), Hyderabad
- ✘ C. Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram
- ✘ D. Institute of Chemical Technology (ICT), Mumbai

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Q.57 If simple interest on ₹p at r% annual rate in r years is ₹p, then the value of $r^2 - 10r$ is:

Ans
- ✗ A. 20
- ✗ B. 10
- ✗ C. 50
- ✓ D. 0

Q.58 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 two boxes are kept between E and S. Only F is kept below U. T is not kept immediately above S.
How many boxes are kept between G and F?

Ans
- ✗ A. Three
- ✗ B. One
- ✓ C. Two
- ✗ D. Four

Q.59 To which literary genre does the book 'Phir Ugna', written by Parvati Tirkey—recipient of the Sahitya Akademi Yuva Puraskar 2025 in Hindi—belong?

Ans
- ✓ A. Poetry
- ✗ B. Essay
- ✗ C. Novel
- ✗ D. Short Stories

Q.60 What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?

24 ÷ 4 − 12 × 2 + 10 = ?

Ans
- ✓ A. 92
- ✗ B. 78
- ✗ C. 86
- ✗ D. 62

Q.61 What kind of image is formed by a convex mirror when an object is placed at infinity?

Ans
- ✗ A. Magnified, virtual, and upright in front of the mirror
- ✗ B. Same size, real, and inverted on the principal axis
- ✗ C. Large, real, and inverted at the centre of the curvature
- ✓ D. Point-sized, virtual, and erect

Q.62 If the numerator of a fraction is increased by 100% and the denominator is increased by 50%, the resultant fraction is $\frac{30}{21}$.

What is the original fraction?

Ans
- ✗ A. $\frac{12}{13}$
- ✓ B. $\frac{15}{14}$
- ✗ C. $\frac{14}{15}$
- ✗ D. $\frac{14}{17}$

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Q.63 What is the mean of the following distribution?

Marks	12	38	60	66	99
No. of Students	86	88	62	32	40

Ans
- ✗ A. 65
- ✓ B. 46
- ✗ C. 50
- ✗ D. 73

Q.64 **Refer to the following letter series and answer the question that follows. (Counting to be done from left to right.)**

(Left) N N I M L Z X A S H J I B O L U O Y H I U H (Right)

How many such consonants are there each of which is immediately preceded by a consonant and also immediately followed by a vowel?

Ans
- ✗ A. 6
- ✗ B. 5
- ✗ C. 3
- ✓ D. 4

Q.65 **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:

All cucumbers are onions.
All cucumbers are mangoes.

Conclusions:

(I) Some onions are mangoes.
(II) All mangoes are cucumbers.

Ans
- ✗ A. Neither conclusion (I) nor (II) follows.
- ✓ B. Only conclusion (I) follows.
- ✗ C. Only conclusion (II) follows.
- ✗ D. Both conclusions (I) and (II) follow.

Q.66 **Why does the Moon pull objects with less force than the Earth?**

Ans
- ✗ A. The Moon is farther from the Sun.
- ✗ B. The Moon's mass is more than the Earth's mass.
- ✓ C. The Moon's mass is less than the Earth's mass.
- ✗ D. The Moon has no gravity at all.

Q.67 **A man, standing in an open ground near an airport, notices that a plane flying at a constant height of $100\sqrt{3}$ m took 4 seconds to travel such that the angle of elevation is changed from 60° to 30° when flying away from him. What is the speed of the plane in m/sec?**

Ans
- ✓ A. 50
- ✗ B. 100
- ✗ C. $50\sqrt{3}$
- ✗ D. $100\sqrt{3}$

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Q.68 Which of the following statements accurately describes the outcome of mitosis?

Ans
- ✔ A. Produces two diploid daughter cells identical to the parent cell
- ✘ B. Produces four haploid daughter cells
- ✘ C. Occurs exclusively during gamete formation
- ✘ D. Reduces the chromosome number to half of the parent cell

Q.69 The rate of evaporation increases with:
i. an increase in surface area
ii. an increase in temperature
iii. a decrease in humidity

Ans
- ✔ A. (i), (ii) and (iii)
- ✘ B. (ii) and (iii) only
- ✘ C. (i) and (iii) only
- ✘ D. (i) and (ii) only

Q.70 GOLD is related to RZWO in a certain way based on the English alphabetical order. In the same way, YGDV is related to JROG. To which of the given options is FNKC related, following the same logic?

Ans
- ✘ A. QYNH
- ✘ B. QVNJ
- ✘ C. QVMI
- ✔ D. QYVN

Q.71 A, B and C can complete their project work individually in 10 days, 15 days and 20 days, respectively. A and B start working but A quits after working for 3 days. After this, C joins B till the completion of project work. In how much time will the project work be completed?

Ans
- ✔ A. $7\frac{2}{7}$ days
- ✘ B. $5\frac{2}{7}$ days
- ✘ C. $5\frac{7}{2}$ days
- ✘ D. $2\frac{5}{7}$ days

Q.72 Which of the following states accounted for the highest proportion of poverty in India, as per the Multidimensional Poverty Index of 2022?

Ans
- ✔ A. Bihar
- ✘ B. Punjab
- ✘ C. Maharashtra
- ✘ D. Kerala

Q.73 Why is biodegradable waste less harmful than non-biodegradable waste?

Ans
- ✘ A. It releases toxins when decomposed
- ✔ B. It breaks down naturally
- ✘ C. It takes a long time to decompose
- ✘ D. It increases the use of plastic

Q.74 $Simplify: \sqrt{529} - \sqrt{1024} + 16^2$

Ans
- ✘ A. 242
- ✘ B. 238
- ✘ C. 255
- ✔ D. 247

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Q.75 In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.
WAIT - AWIT - WITA
TONE - OTNE - TNEO

Ans
- ✗ A. DEAL - EDAL - EALD
- ✗ B. LURE - LRUE - ERUL
- ✗ C. CASH - ACSH - HASC
- ✓ D. RUSH - URSH - RSHU

Q.76 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 P and C when counted from the right of P. Only three people sit between D and Q when counted from the right of Q. C sits to the immediate right of Q. A sits to the immediate right of R.
Who sits fourth to the right of B?

Ans
- ✗ A. R
- ✗ B. D
- ✗ C. P
- ✓ D. A

Q.77 This question is based on the five, three-digit numbers given below.

(Left) 805 643 328 572 256 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

What will be the resultant if the first digit of the second highest number is subtracted from the third digit of the lowest number?

Ans
- ✗ A. 2
- ✓ B. 0
- ✗ C. 3
- ✗ D. 1

Q.78 The Brahmo Samaj, a socio-religious reform movement, was founded by:

Ans
- ✗ A. Swami Vivekananda
- ✗ B. Ishwar Chandra Vidyasagar
- ✓ C. Raja Ram Mohan Roy
- ✗ D. Debendranath Tagore

Q.79 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)

Which letter is ninth to the left of the third letter from the right?

Ans
- ✗ A. E
- ✓ B. A
- ✗ C. P
- ✗ D. U

Q.80 The Directive Principles of State Policy (DPSP) of the Indian Constitution resemble the 'Instrument of Instructions' enumerated in the _____.

Ans
- ✓ A. Government of India Act of 1935
- ✗ B. Indian Independence Act of 1947
- ✗ C. Government of India Act of 1919
- ✗ D. Indian Councils Act of 1909

Q.81 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?

15 Q 3 S 9 P 2 R 8 = ?

Ans
✗ A. 19
✗ B. 11
✓ C. 15
✗ D. 9

Q.82 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. FBY
✗ B. QMJ
✓ C. PMI
✗ D. OKH

Q.83 The number 1359438 is divisible by:

Ans
✓ A. 46
✗ B. 55
✗ C. 29
✗ D. 41

Q.84 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', then what will come in place of the question mark (?) in the following equation?

26 B 2 C 6 A 2 D 9 = ?

Ans
✗ A. 31
✗ B. 38
✓ C. 46
✗ D. 42

Q.85 Which of the following countries hosted the 29th Conference of the Parties to the UN Framework Convention on Climate Change (COP29), in November 2024?

Ans
✗ A. UAE
✓ B. Azerbaijan
✗ C. Egypt
✗ D. Brazil

Q.86 The administrators of Andaman and Nicobar Islands, Delhi and Puducherry are designated as the _____.

Ans
✗ A. State Administrators
✓ B. Lieutenant Governors
✗ C. Chief Ministers
✗ D. Governors

Q.87 Who was the first president of the Indian National Congress in 1885?

Ans
✗ A. Dadabhai Naoroji
✗ B. Gopal Krishna Gokhale
✓ C. WC Bonnerjee
✗ D. Surendranath Banerjee

Q.88 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

GTY ANS UHM OBG ?

Ans
✗ A. IBF
✗ B. IAV
✗ C. IBG
✓ D. IVA

Q.89 The Aravalli Range runs through which of the following states?

Ans
✗ A. Tamil Nadu
✗ B. Kerala
✗ C. Himachal Pradesh
✓ D. Rajasthan

Q.90 In a certain code language, ‘store math goal’ is coded as ' da sc ou' and ‘goal death wood’ is coded as ‘sc ba gn’. How is ‘goal’ coded in the given language?

Ans
✗ A. da
✗ B. ba
✗ C. ou
✓ D. sc

Q.91 Who among the following won India’s first-ever gold medal in athletics at the Olympic Games?

Ans
✗ A. PT Usha
✗ B. Rohan Bopanna
✗ C. Milkha Singh
✓ D. Neeraj Chopra

Q.92 The largest side of the triangle is 3 times of it's shortest side. The length of the third side is 2 cm more than shortest side. If the perimeter of the triangle is 27 cm, then find the length of the shortest side.

Ans
✗ A. 3 cm
✓ B. 5 cm
✗ C. 6 cm
✗ D. 4 cm

Q.93 In a certain code language, ‘MIND’ is coded as ‘5691’ and ‘DINE’ is coded as ‘9465’. What is the code for ‘E’ in the given code language?

Ans
✓ A. 4
✗ B. 6
✗ C. 1
✗ D. 5

Q.94 Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).

Assertion (A): In electrolytic refining, insoluble impurities settle down at the bottom of the anode.
Reason(R): These impurities do not dissolve in the electrolyte.

Ans
✗ A. A is false, but R is true.
✗ B. Both A and R are true, but R is not the correct explanation of A.
✓ C. Both A and R are true, and R is the correct explanation of A.
✗ D. A is true, but R is false.

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Q.95 What is India's length from north to south?

Ans
- ✗ A. 3142 km
- ✗ B. 3124 km
- ✓ C. 3214 km
- ✗ D. 3241 km

Q.96 In what form is excess carbohydrate stored in plants?

Ans
- ✗ A. Cellulose
- ✓ B. Starch
- ✗ C. Glucose
- ✗ D. Sucrose

Q.97 Ajay and Chintu together have 1,260 marbles. If $\frac{6}{5}^{th}$ marbles of Ajay is equal to $\frac{2}{3}^{rd}$ marbles of Chintu, how many marbles does Ajay have?

Ans
- ✓ A. 450
- ✗ B. 801
- ✗ C. 810
- ✗ D. 405

Q.98 If Amit walks at a speed of 20 km/hr instead of 15 km/hr, he would have walked 25 km more. The actual distance travelled by him is:

Ans
- ✗ A. 50 km
- ✓ B. 75 km
- ✗ C. 90 km
- ✗ D. 60 km

Q.99 Who was the Director General Military Operations (DGMO) of India at the time of India Pakistan conflict in May 2025?

Ans
- ✗ A. Lieutenant General Rahul R Singh
- ✓ B. Lieutenant General Rajiv Ghai
- ✗ C. Lieutenant General Amardeep Singh Aujla
- ✗ D. Lieutenant General Rakesh Kapoor

Q.100 Which of the following are examples from daily life where we feel cooling due to evaporation?
i. Sweating in summer
ii. Blowing air on hot tea or coffee
iii. Earthen pot (matka) cooling water

Ans
- ✗ A. (i) and (ii) only
- ✗ B. (i) and (iii) only
- ✗ C. (ii) and (iii) only
- ✓ D. (i), (ii) and (iii)