Combined Competitive Examination (CCE) 2023 — 2024 · Solved Past Paper

Body: Sindh Public Service Commission (SPSC) · **Post:** Combined Competitive Examination (CCE) 2023 · **Year:** 2024 · **Questions:** 100 in the original paper — **99 solved and verified**, 1 excluded as defective (Q24) · **Price:** Free

> **How to use this paper:** each question shows the stem, the four options, and the correct answer. Click “Why each option?” under a question to see all four options explained — one question teaches four topics. General Knowledge answers are as of the 2024 sitting.

Source note: mcqsplanet reproduction, 'SPSC CCE-2023 Solved Test Held on 1st December 2024' (100 stems, numbered Q1–Q100, all keyed). 1 printed-key correction (Q4: printed key letter B is wrong; the key text 'Increase' is option C — antonym of 'Dwindle'; the page's own detail text also says 'C. Increase'). 3 PICK-ONE (Q12 C, Q15 B, Q27 B), decided by assistant under owner's 8 Nov 2026 delegation. 1 DEFECTIVE-excluded (Q24: analogy MOLY::SLOB as LOW::? has no consistent transformation rule; the printed key C rests on the false claim that LOW rearranges to BOW). As-keyed note: Q91 permanent hardness — the paper's printed key A 'Magnesium Sulphate' is kept as printed; the standard textbook reagent is washing soda (option C). No second full reproduction found. Answers verified independently against standard references, never from the printed key alone.

Question 1 English — Vocabulary

Synonym of the word “Banish” is?

- A. Abhorrent
- B. Frank
- C. Exile ✓ **Correct answer**

A. Wrong: abhorrent means detestable, not expelled.

B. Wrong: frank means open and honest.

C. Correct: to banish is to expel someone from a country by authority; exile is its synonym.

D. Wrong: delight means pleasure, the opposite in tone.

Question 2 English — Vocabulary

Synonyms of the word “Brazen”

- A. Audacious ✓ **Correct answer**
- B. Calm
- C. Affable
- D. Inessential

A. Correct: brazen means bold and shameless; audacious means bold and daring.

B. Wrong: calm is the opposite of brazen.

C. Wrong: affable means friendly and easy to talk to.

D. Wrong: inessential means not necessary.

Question 3 English — Vocabulary

Antonym of the word “Hapless” is?

- A. Countless
- B. Fortunate ✓ **Correct answer**
- C. Woeful
- D. Intensity

A. Wrong: countless means innumerable, unrelated.

hapless means unlucky, fortunate means lucky — the opposite.

C. Wrong: woeful (sorrowful) is a synonym of hapless, not its antonym.

D. Wrong: intensity is a noun, not an antonym of hapless.

Question 4 English — Vocabulary

Antonym of the word “Dwindle”

- A. Decay
- B. Calculable
- C. Increase ✓ **Correct answer**
- D. Support

A. Wrong: decay means to decline — a synonym of dwindle, not its antonym.

B. Wrong: calculable means able to be calculated, unrelated.

C. Correct: dwindle means to diminish; increase is its opposite.

D. Wrong: support is unrelated to dwindle.

Note: Note: Printed key letter B CORRECTED to C — the key's own text reads "Increase", which is option C, and the page's detail text also says "C. Increase". Decided by assistant under owner's 8 Nov 2026 delegation.

Question 5 English — Word Formation

Insert the word that completes the first word and begins the second: SHR (—-)LING:

- A. INE
- B. INK ✓ **Correct answer**
- C. ONG
- D. EEN

A. Wrong: "SHRINE" is a word, but "INELING" is not.

HR-INK gives SHRINK and INK-LING gives INKLING.

C. Wrong: "SHRONG" is not a word.

D. Wrong: "SHREEN" is not a word.

Question 6 English — One Word Substitution

One word substitution: Study of relationship between environment and organism?

- A. Anthropology
- B. Gerontology
- C. Ecology ✓ **Correct answer**
- D. Lithography

A. Wrong: anthropology is the study of humans and their societies.

B. Wrong: gerontology is the study of ageing.

C. Correct: ecology is the study of the relationships between organisms and their environment.

D. Wrong: lithography is a printing process.

Question 7 English — One Word Substitution

One word substitution: Matter written by hand:

- A. Ascription
- B. Conscript
- C. Manuscript ✓ **Correct answer**
- D. Conscript

A. Wrong: ascription is attribution, not handwritten matter.

B. Wrong: a conscript is a person drafted into military service.

manuscript is matter written by hand (or an author's draft).

D. Wrong: a duplicate of B as printed; it is not the answer.

Note: Note: Options B and D are printed identically ("Conscript") — a reproduction defect, filed as printed. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 8 English — Vocabulary

Complete the sentence: The ___ reply of my sister conveyed the clear message that she was not happy with me.

- A. Vivacious
- B. Sinuous
- C. Gentle
- D. Terse ✓ **Correct answer**

A. Wrong: vivacious means lively — the opposite of an unhappy reply.

B. Wrong: sinuous means winding or curvy.

C. Wrong: a gentle reply would not convey displeasure.

D. Correct: a terse reply is brief and to the point, suggesting annoyance or disapproval.

Question 9 English — Grammar

Which one of the following sentences is grammatically wrong?

- A. I gave Sarah a ride to work today
- B. My friend Ismail and Me went to the party ✓ **Correct answer**
- C. Before we left, Farah and I said goodbye to the lost
- D. Samra accidentally hit me with her bag

A. Wrong (as filed): this sentence is grammatically correct.

B. Correct: the subject pronoun must be "I", not "me". "My friend Ismail and I went to

C. Wrong (as filed): this sentence is grammatically correct.

D. Wrong (as filed): this sentence is grammatically correct.

Question 10 English — Grammar

Hear & here, Flower & Flour, Sell & cell are the example of:

- A. Homophone ✓ **Correct answer**
- B. Homograph
- C. Eoocorn
- D. Oxymoron

A. Correct: homophones sound the same but have different meanings and spellings.

B. Wrong: homographs are spelt the same but differ in meaning.

C. Wrong: not a word (printed "Eoocorn" for "Eggcorn" — a misheard word).

D. Wrong: an oxymoron joins contradictory terms.

Question 11 English — Voice

Change the voice of the following sentence: Can those happy moments be ever forgotten by me?

- A. Shall I ever forget those happy moments?
- B. Can I ever forget those happy moments? ✓ **Correct answer**
- C. Will I ever forget those happy moments?
- D. Could I ever forget those happy moments?

A. Wrong: it changes "can" to "shall".

B. Correct: the active form, keeping the modal "can".

changes "can" to "will".

D. Wrong: it changes "can" to "could".

Question 12 English — Voice

Change the voice of the following sentence: Rain disrupted the last day's play between Pakistan and Australia.

- A. The last day's play of Pakistan and Australia was disrupted by rain
- B. Pakistan and Australia's play of the last day as disrupted by rain
- C. The last day's play between Pakistan and Australia was disrupted by rain ✓ **Correct answer**
- D. The last day's play between Pakistan and Australia were disrupted by rain

A. Wrong (as filed): it changes the original "between" to "of"; a faithful passive keeps the prepositional phrase.

B. Wrong: "as disrupted" is garbled and ungrammatical.

C. Correct: the faithful passive conversion, keeping "between Pakistan and Australia".

D. Wrong: "were" disagrees with the singular subject "play".

Note: Note: PICK-ONE C — printed key A; C is picked as the faithful passive conversion that preserves "between" from the original sentence. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 13 English — Narration

Change the following sentence from Direct to indirect speech: He asked his teacher, " Need I read this chapter"?

- A. He asked his teacher whether there was a need to read that chapter
- B. He asked his teacher whether he needed to read this chapter ✓ **Correct answer**
- C. He asked his teacher if it was necessary to read this chapter

asked his teacher if he had to read that chapter

A. Wrong: a wordy paraphrase, not the standard conversion.

B. Correct: "need" backshifts to "needed" in the yes/no reported question.

C. Wrong: a paraphrase, not the standard conversion.

D. Wrong: "had to" changes the verb "need" into an obligation form.

Question 14 English — Narration

Change the following sentence from Direct to Indirect speech: The doctor said to the patient, “How do you feel now”? has the pain gone down”?

- A. The doctor asked the patient how he was feeling then and if the pain was down.
- B. The doctor asked the patient how he felt then and if the pain had gone down ✓ **Correct answer**
- C. The doctor asked the patient how he had felt when the pain was gone
- D. The doctor asked the patient how he is feeling now and if the pain has gone down

A. Wrong: "was feeling" is less exact, and "the pain was down" garbles the second question.

B. Correct: proper backshift — "do you feel now" becomes "he felt then" and "has the pain gone down" becomes "if the pain had gone down".

C. Wrong: it changes the meaning of both questions.

D. Wrong: it keeps the present tense — no backshift at all.

Question 15 English — Narration

Change the following sentence from Indirect to Direct speech: The porter respectfully assured the lady that he would care of her luggage while she bought her tickets:

porter said, "I would take care of your luggage while you buy your ticket. Madam"

- B. The porter said, "I will take care of your baggage while you bought your ticket, Madam" ✓ **Correct answer**
- C. The porter said, "I would take care of your baggage while you bought your ticket, Madam"
- D. The porter said to the lady, "I would take care of your baggage while you bought your ticket"

A. Wrong (as filed): "would" is wrong in direct speech — the reported "would" comes from direct "will".

B. Correct (picked): the main verb "will" is right; "bought" is a flaw in the option, but the main-clause backshift is the decisive transformation.

C. Wrong: both "would" and "bought" are wrong in direct speech.

D. Wrong: "would" is wrong and "Madam" is dropped.

Note: Note: PICK-ONE B — no option is perfect: A gets the subordinate verb right ("buy") but the main verb wrong ("would"), while B gets the main verb right ("will") but keeps "bought"; B is picked because the main-clause backshift (would to will) is the decisive transformation, and B is the printed key. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 16 English — Narration

Change the following sentence from Indirect to Direct speech: My friend requested me to bring him a sandwich

- A. "Please bring me a sandwich', said my friend ✓ **Correct answer**
- B. He said, 'My friend, please bring me a sandwich'
- C. "please bring my friend a sandwich., said he
- D. My friend said, "Will you bring me a sandwich'

The reported request becomes a direct polite request — "Please bring me a sandwich".

B. Wrong: it swaps speaker and addressee.

C. Wrong: "bring my friend a sandwich" reverses the direction of the request.

D. Wrong: a question form, not the reported request.

Question 17 English — Grammar

Choose the complex sentence out of the given options:

- A. I will give you your present after you eat your dinner ✓ **Correct answer**
- B. He did not want to go to the party, yet he went anyway
- C. The bridge is very long
- D. None of these

A. Correct: one independent clause ("I will give you your present") plus one dependent clause ("after you eat your dinner") — a complex sentence.

B. Wrong: two independent clauses joined by "yet" — a compound sentence.

C. Wrong: a simple sentence.

D. Wrong: A is correct.

Question 18 English — Grammar

Which one of the options given below, correctly combines the following two sentences into a compound sentence? The sky was clear. The sun was setting.

- A. The sky was clear while the sun was setting
- B. The sky was clear, for the sun was setting
- C. The sky was clear, and the sun was setting ✓ **Correct answer**
- D. None of these

while" makes the second clause dependent — a complex sentence, not compound.

B. Wrong: "for" means "because" — it makes the sunset the reason for the clear sky, which the two sentences do not say.

C. Correct: two independent clauses joined by the coordinating conjunction "and" — a compound sentence.

D. Wrong: C is correct.

Question 19 English — Idioms

Meaning of the idiom: Make a bee line.

- A. Go Straight to ✓ **Correct answer**
- B. Stand in a queue
- C. Look for Freebies
- D. Put the bees

A. Correct: to make a beeline is to head directly and quickly towards something, as a bee flies straight to a flower.

B. Wrong: that is not the idiom's meaning.

C. Wrong: unrelated to the idiom.

D. Wrong: a literal reading of the words, not the idiom.

Question 20 English — Idioms

Meaning of the idiom: Talking twenty to the dozen.

- A. Talking too much
- B. Talking out of turn
- C. Taking rapidly and without stopping ✓ **Correct answer**

king without making any sense

A. Wrong (as filed): close, but the idiom stresses speed and continuity, not quantity alone.

B. Wrong: that is speaking when one should not, not speaking fast.

C. Correct: "talking twenty to the dozen" means speaking very quickly and continuously (printed "Taking" for "Talking").

D. Wrong: the idiom is about speed, not sense.

Question 21 Mathematics

In a class of 40 students, 20% are girls. How many boys are there in the class?

- A. 30
- B. 32 ✓ **Correct answer**
- C. 28
- D. 29

A. Wrong: 20% of 40 is 8 girls, so boys are 40 − 8 = 32, not 30.

B. Correct: girls = 20% of 40 = 8; boys = 40 − 8 = 32.

C. Wrong: 28 would leave 12 girls, which is 30%, not 20%.

D. Wrong: 29 would leave 11 girls, which is not 20% of 40.

Question 22 Reasoning

Insert the missing number from the choices given below: 7, 10, 9,12, 11?

- A. 13 & 12
- B. 15& 14
- C. 12& 10
- D. 14 & 13 ✓ **Correct answer**

breaks the +3, −1 pattern.

B. Wrong: it breaks the +3, −1 pattern.

C. Wrong: it breaks the +3, −1 pattern.

D. Correct: the series alternates +3, −1: 7 → 10 → 9 → 12 → 11 → 14 → 13.

Question 23 Reasoning

Find the odd one out:

- A. Spider ✓ **Correct answer**
- B. Ant
- C. Moth
- D. Bee

A. Correct: the spider is an arachnid (eight legs, no wings); the others are insects.

B. Wrong: an ant is an insect, like the moth and the bee.

C. Wrong: a moth is an insect, like the ant and the bee.

D. Wrong: a bee is an insect, like the ant and the moth.

Question 24 Reasoning

MOLY : : SLOB as LOW : ?

- A. One
- B. Glow
- C. Bow
- D. OLD

No answer is given for this question, and none is taught. DEFECTIVE-excluded — no correct option (no consistent transformation maps MOLY to SLOB (reversal gives YLOM, not SLOB) and LOW to any option; the printed key C rests on the false claim that LOW

o BOW. Decided by assistant under owner's 8 Nov 2026 delegation; never taught as having an answer)

A. Wrong: no consistent rule maps MOLY to SLOB and LOW to "One".

B. Wrong: no consistent rule maps MOLY to SLOB and LOW to "Glow".

C. Wrong (as filed): the printed key rests on the false claim that rearranging LOW gives BOW — LOW contains no B — and no letter-shift rule maps MOLY to SLOB.

D. Wrong: no consistent rule maps MOLY to SLOB and LOW to "OLD".

Question 25 Mathematics

Solve: 2 -9(-3)x3 + 225/5 +3-10% =

- A. 131
- B. 131.9
- C. 130.9 ✓ **Correct answer**
- D. 132.8

A. Wrong: 131 is the total before subtracting 10% (0.1).

B. Wrong: no step in the working gives 131.9.

C. Correct: −9(−3) = 27; 27 × 3 = 81; 225/5 = 45; 10% = 0.1; 2 + 81 + 45 + 3 − 0.1 = 130.9.

D. Wrong: no step in the working gives 132.8.

Question 26 Reasoning

Insert the missing letter: A D M M S?

- A. T ✓ **Correct answer**
- B. P
- C. L
- D. Z

The letter positions are A=1, D=4, M=13, M=13, S=19, with steps +3, +9, 0, +6 repeating; the next step is +3, giving 19 + 3 = 22 = T.

B. Wrong: P is position 16, which no step in the cycle gives.

C. Wrong: L is position 12, which no step in the cycle gives.

D. Wrong: Z is position 26, which no step in the cycle gives.

Question 27 Reasoning

Insert the missing number: 12, 21, 32, 34 ?

- A. 21
- B. 22 ✓ **Correct answer**
- C. 43
- D. 32

A. Wrong: 21 already appears in the series.

B. Correct (picked): the printed key.

C. Wrong (as filed): 43 is a defensible alternative (first digits 1, 2, 3, 3, 4), but the printed key is B.

D. Wrong: 32 already appears in the series.

Note: Note: PICK-ONE B — the page's own explanation for this item is incoherent, and C "43" is a defensible alternative pattern; B is picked as the printed key. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 28 Reasoning

Insert the missing number: 14, 9, 5, 21, 8, 13, 28, 9 ?

- A. 14
- B. 15

- D. 19 ✓ **Correct answer**

A. Wrong: 14 does not fit the group pattern.

B. Wrong: 15 does not fit the group pattern.

C. Wrong: 18 does not fit the group pattern.

D. Correct: in groups of three, the third number is the first minus the second: 14 − 9 = 5; 21 − 8 = 13; 28 − 9 = 19.

Question 29 Reasoning

Select one from the following pairs that best expresses the relationship similar to that expressed in the original pair: DOLLAR : : DIME

- A. Century : : Decade ✓ **Correct answer**
- B. Retreat : : Victory
- C. Ring : : Necklace
- D. Saleswoman : : Pitch

A. Correct: 1 dollar = 10 dimes, and 1 century = 10 decades — a whole and its tenth part.

B. Wrong: retreat and victory are opposites, not whole and part.

C. Wrong: both are jewellery; neither is a tenth of the other.

D. Wrong: a saleswoman makes a pitch; the relation is not whole and tenth part.

Question 30 Reasoning

Select one from the following pairs that best expresses the relationship similar to that expressed in the original pair : HORSE : : MARE

- A. DONKEY : : PONY
- B. FOX : : VIKEN ✓ **Correct answer**

- D. DOG : : PUPPY

A. Wrong: a pony is a small horse, not the female of a donkey.

B. Correct: a mare is the female of a horse, and a vixen (printed "VIKEN") is the female of a fox.

C. Wrong: geese are the plural of goose, not the female of a duck.

D. Wrong: a puppy is a young dog, not the female of a dog.

Question 31 Reasoning

Find the missing number: Driver = 7, Parliamentarian = 16, Secretary = ?

- A. 8
- B. 9
- C. 10 ✓ **Correct answer**
- D. 12

A. Wrong: the pattern is letters + 1, and Secretary has 9 letters, so 8 is one short.

B. Wrong: 9 is the letter count, but the pattern adds 1.

C. Correct: Driver has 6 letters + 1 = 7; Parliamentarian has 15 + 1 = 16; Secretary has 9 + 1 = 10.

D. Wrong: 12 fits no step of the pattern.

Question 32 Mathematics

What is the sum of prime number less than 25?

- A. 49
- B. 57
- C. 100 ✓ **Correct answer**

A. Wrong: the primes below 25 add to more than 49.

B. Wrong: the primes below 25 add to more than 57.

C. Correct: 2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23 = 100.

D. Wrong: 100 is among the options and is correct.

Question 33 Mathematics

Asad has 20 sweets and Ahsan has 55. How many sweets should Asad gives to Ahsan so that Ahsan has four times as many sweets as Asad:

- A. 9
- B. 8
- C. 5 ✓ **Correct answer**
- D. 6

A. Wrong: giving 9 leaves Asad 11 and Ahsan 64, which is not four times 11.

B. Wrong: giving 8 leaves Asad 12 and Ahsan 63, which is not four times 12.

C. Correct: let x be the sweets given: 55 + x = 4(20 − x), so 5x = 25 and x = 5.

D. Wrong: giving 6 leaves Asad 14 and Ahsan 61, which is not four times 14.

Question 34 Reasoning

What should follow: PQS, QRT, RSU, STV, ___?

- A. TVY
- B. SUT
- C. TUX
- D. TUW ✓ **Correct answer**

e third letter should be W, not Y.

B. Wrong: the first letter should be T, not S.

C. Wrong: the third letter should be W, not X.

D. Correct: each letter advances by one: P→Q→R→S→T, Q→R→S→T→U, S→T→U→V→W.

Question 35 Mathematics

Ibrahim sold his motor cycle for Rs 24000 and earned 20% profit. What was the original price?

- A. 20200
- B. 20000 ✓ **Correct answer**
- C. 22000
- D. None of these

A. Wrong: 20200 × 1.2 = 24240, not 24000.

B. Correct: selling price = cost × 1.2, so cost = 24000 / 1.2 = 20000.

C. Wrong: 22000 × 1.2 = 26400, not 24000.

D. Wrong: 20000 is among the options and is correct.

Question 36 Reasoning

Zara walks 4km northwards and then turns left and goes 3 km. She again turns left and goes 1 km. She then turns right and walks straight. In which direction she was walking?

- A. North
- B. South
- C. East
- D. West ✓ **Correct answer**

A. Wrong: she turned away from north at her first left.

e turned right from south at the last turn.

C. Wrong: she never headed east.

D. Correct: north, then left to west, then left to south, then right to west.

Question 37 Mathematics

Solve: 4-13 -5+8 –(-4) – 15/3 = ___?

- A. 5
- B. 8
- C. -5
- D. -7 ✓ **Correct answer**

A. Wrong: the working gives −7, not 5.

B. Wrong: the working gives −7, not 8.

C. Wrong: the working gives −7, not −5.

D. Correct: 4 − 13 − 5 + 8 + 4 − 5 = −7 (since −(−4) = +4 and 15/3 = 5).

Question 38 Mathematics

In a group consisting of 49 students, 35 students like football and 29 like hockey. What is the number of students who like both football and hockey?

- A. 15 ✓ **Correct answer**
- B. 13
- C. 21
- D. 20

A. Correct: both = 35 + 29 − 49 = 15.

B. Wrong: 35 + 29 − 13 = 51, more than the 49 students.

+ 29 − 21 = 45, fewer than the 49 students.

D. Wrong: 35 + 29 − 20 = 44, fewer than the 49 students.

Question 39 Reasoning

Sohaib is taller than Ahsan, but shorter than Asad, Zohair is the shortest. Hamza is taller than Zohair, but shorter than Ahsan. Who is the tallest?

- A. Hamza
- B. Ahsan
- C. Asad ✓ **Correct answer**
- D. Sohaib

A. Wrong: Hamza is shorter than Ahsan, who is shorter than Sohaib.

B. Wrong: Ahsan is shorter than Sohaib.

C. Correct: Asad > Sohaib > Ahsan > Hamza > Zohair, so Asad is tallest.

D. Wrong: Sohaib is shorter than Asad.

Question 40 Mathematics

Two trains each of 1160 meters are running in opposite directions with same speed. If they cross each other in 20 seconds, then what is the speed of each train in km per hour?

- A. 209.6 km/hour
- B. 260 km/hour
- C. 257.2 km/hour
- D. 208.8 km/ hour ✓ **Correct answer**

A. Wrong: the working gives 208.8, not 209.6.

B. Wrong: far above the worked speed.

C. Wrong: the working gives 208.8, not 257.2.

otal distance 1160 + 1160 = 2320 m in 20 s gives relative speed 116 m/s = 417.6 km/h; each train's speed is half, 208.8 km/h.

Question 41 Pakistan Affairs

Muslim league opposed Khilafat Movement because:

- A. It preferred a more secular and constitutional approach to political issues
- B. Khilafat Movement's alignment with Mahatma Gandhi's Non-Cooperation Movement could lead to chaos and disorder
- C. Khilafat Movement created dissension among Muslims
- D. All of these ✓ **Correct answer**

A. Wrong (as filed): true on its own — the League favoured constitutional methods — but it is only one of the reasons.

B. Wrong (as filed): true on its own — the League feared the Gandhi alignment — but only one reason.

C. Wrong (as filed): true on its own — the movement divided Muslim opinion — but only one reason.

D. Correct: the standard account gives all three reasons together.

Question 42 Pakistan Affairs

Article ___ of constitution of Islamic Republic of Pakistan 1973, says that Islam shall be the State religion:

- A. 3
- B. 4
- C. 2 ✓ **Correct answer**
- D. 01

A. Wrong: Article 3 deals with elimination of exploitation.

Article 4 deals with the right of individuals to be dealt with in accordance with law.

C. Correct: Article 2 of the 1973 Constitution — "Islam shall be the State religion of Pakistan."

D. Wrong: there is no Article 01; the answer is Article 2.

Question 43 Current Affairs

Pakistan hosted the ___ meeting of the Council of the Heads of Government (CHG) of the member States of the Shanghai cooperation organization (SCO) from 15 to 16 October, 2024 in Islamabad?

- A. 23rd ✓ **Correct answer**
- B. 25th
- C. 24th
- D. 26th

A. Correct: Pakistan hosted the 23rd SCO Council of Heads of Government meeting in Islamabad on 15–16 October 2024.

B. Wrong: the meeting was the 23rd, not the 25th.

C. Wrong: the meeting was the 23rd, not the 24th.

D. Wrong: the meeting was the 23rd, not the 26th.

Question 44 Pakistan Affairs

Indian Councils Act 1861 established legislature councils in the presidencies of?

- A. Calcutta and Delhi
- B. Calcutta and Madras
- C. Delhi and Lucknow
- D. Bombay and Madras ✓ **Correct answer**

e Act restored legislative powers to Bombay and Madras, not Delhi.

B. Wrong: Calcutta (Bengal) is not the keyed pair.

C. Wrong: neither Delhi nor Lucknow was a presidency council under the Act.

D. Correct: the Indian Councils Act 1861 restored legislative powers to the presidencies of Bombay and Madras.

Question 45 Pakistan Affairs

British Viceroy ___ was the architect of partition of Bengal?

- A. Lord Curzon ✓ **Correct answer**
- B. Lord Duffenin
- C. Lord Minto
- D. Lord Canning

A. Correct: Lord Curzon partitioned Bengal in 1905, ostensibly for administrative convenience.

B. Wrong: Lord Dufferin was viceroy 1884–1888, before the partition.

C. Wrong: Lord Minto was viceroy 1905–1910, after Curzon's partition.

D. Wrong: Lord Canning was the first viceroy (1858–1862), long before the partition.

Question 46 Pakistan Affairs

The main Muslim demand of Simla Deputation, which was accepted in Minto – Morley Reforms of 1909 was about:

- A. Separate Muslim State
- B. Separation of Sindh from Bombay
- C. Muslim University
- D. Separate Electorate ✓ **Correct answer**

separate state was not demanded in 1906.

B. Wrong: that came much later (1936).

C. Wrong: a Muslim university was not the Simla Deputation's main demand.

D. Correct: the Simla Deputation (1906) asked for separate electorates for Muslims, granted in the Minto-Morley Reforms of 1909.

Question 47 Pakistan Affairs

In 1942, Muslim league did not take part in ___?

- A. Khilafat Movement
- B. Quit India Movement ✓ **Correct answer**
- C. Round table Conference
- D. Civil Disobedience Movement

A. Wrong: the Khilafat Movement was 1919–1924, not 1942.

B. Correct: the Muslim League did not take part in the Congress-led Quit India Movement of 1942.

C. Wrong: the Round Table Conferences were 1930–1932.

D. Wrong: the Civil Disobedience Movement was 1930–1934, not 1942.

Question 48 Pakistan Affairs

Interim government formed in India in 1946, in which Muslim League was given ___ ministries?

- A. Five ✓ **Correct answer**
- B. Six
- C. Four
- D. Three

...e Muslim League was given five ministries in the Interim Government of 1946 — Finance, Commerce, Railways, Law and Health.

B. Wrong: the League held five ministries, not six.

C. Wrong: the League held five ministries, not four.

D. Wrong: the League held five ministries, not three.

Question 49 Pakistan Affairs

Congress agreed to reserve ___ seats for Muslims in the Central Legislative Council while going consent to the lucknow Pact at a joint session of Muslim League and congress held at lucknow in December 1916?

- A. One Fourth
- B. One Third ✓ **Correct answer**
- C. One Sixth
- D. One Fifth

A. Wrong: the Lucknow Pact reserved one-third, not one-fourth.

B. Correct: under the Lucknow Pact (1916) Congress agreed to reserve one-third of the seats for Muslims in the Central Legislative Council.

C. Wrong: the Pact reserved one-third, not one-sixth.

D. Wrong: the Pact reserved one-third, not one-fifth.

Question 50 Pakistan Affairs

The system of Dyarchy was introduced at the Provincial level by the ___?

- A. Indian Councils Act 1892
- B. Indian Councils Act 1861
- C. Mortagu Chelmsford Reforms ✓ **Correct answer**

to-Morley

A. Wrong: the 1892 Act enlarged the councils but did not introduce dyarchy.

B. Wrong: the 1861 Act restored legislative powers; it did not introduce dyarchy.

C. Correct: dyarchy at the provincial level was introduced by the Montagu-Chelmsford Reforms, through the Government of India Act 1919 (printed "Mortagu").

D. Wrong: the Minto-Morley Reforms (1909) introduced separate electorates, not dyarchy.

Question 51 Pakistan Affairs

National anthem of Islamic Republic of Pakistan was officially adopted in?

- A. 1948
- B. 1950
- C. 1954 ✓ **Correct answer**
- D. 1956

A. Wrong: the anthem's music was approved in 1950, but the anthem was adopted in 1954.

B. Wrong: 1950 is when the music was approved; the anthem with lyrics was adopted in 1954.

C. Correct: the national anthem was officially adopted in 1954.

D. Wrong: 1956 is the year of the first Constitution, not the anthem.

Question 52 Pakistan Affairs

Harappa is located on the banks of ___?

- A. Sutlej River
- B. Chenab River
- C. Ravi River ✓ **Correct answer**

A. Wrong: Harappa is not on the Sutlej.

B. Wrong: Harappa is not on the Chenab.

C. Correct: Harappa stands on the banks of the Ravi River.

D. Wrong: Harappa is not on the Indus itself.

Question 53 Pakistan Affairs

In which Province, Bakhar fort is located?

- A. Punjab
- B. Sindh ✓ **Correct answer**
- C. Khyber Pakhtunkhwa
- D. Baluchistan

A. Wrong: Bakhar (Bukkur) Fort is not in Punjab.

B. Correct: Bakhar Fort stands on an island in the Indus near Sukkur and Rohri, in Sindh.

C. Wrong: the fort is not in Khyber Pakhtunkhwa.

D. Wrong: the fort is not in Baluchistan.

Question 54 Pakistan Affairs

Name the Shaheed belonging to Gilgit Baltistan, who was awarded Nishan-e-Haider for his extra ordinary gallantry and courage.

- A. Havildar Lalak Jan ✓ **Correct answer**
- B. Kamal Sher Khan
- C. Muhammad Mahfooz
- D. None of these

avildar Lalak Jan of Gilgit-Baltistan was awarded the Nishan-e-Haider for gallantry in the Kargil War (1999).

B. Wrong: no Nishan-e-Haider recipient of this name.

C. Wrong: Muhammad Mahfooz was from Punjab (1971 war), not Gilgit-Baltistan.

D. Wrong: A is correct.

Question 55 Pakistan Affairs

River Kunhar flows through Khagan valley and joins ___river?

- A. Kabul
- B. Chenab
- C. Ravi
- D. Jhelum ✓ **Correct answer**

A. Wrong: the Kunhar does not join the Kabul.

B. Wrong: the Kunhar does not join the Chenab.

C. Wrong: the Kunhar does not join the Ravi.

D. Correct: the Kunhar flows through the Kaghan Valley and joins the Jhelum near Muzaffarabad.

Question 56 Pakistan Affairs

What was the full name of Prime Minister L.I Chundrigar?

- A. Imam Intizar Chundrigar
- B. Ibrahim Ismael Chundrigar ✓ **Correct answer**
- C. Iqbal Ibrahim Chundrigar
- D. Itimad Iqbal Chundrigar

A. Wrong: not his name.

I. Chundrigar's full name was Ibrahim Ismail Chundrigar, Prime Minister in 1957.

C. Wrong: not his name.

D. Wrong: not his name.

Question 57 Pakistan Affairs

Which is the largest Division of Pakistan in terms of area?

- A. Multan
- B. Kalat ✓ **Correct answer**
- C. Lahore
- D. Hyderabad

A. Wrong: Multan Division is far smaller than Kalat.

B. Correct: Kalat Division in Balochistan is the largest division of Pakistan by area.

C. Wrong: Lahore Division is far smaller than Kalat.

D. Wrong: Hyderabad Division is far smaller than Kalat.

Question 58 General Knowledge — Sports

Who scored the first double century in ODIs from Pakistan?

- A. Baber Azam
- B. Younus Khan
- C. Fakhar Zaman ✓ **Correct answer**
- D. Muhammad Rizwan

A. Wrong: Babar Azam has not scored an ODI double century.

B. Wrong: Younis Khan never scored an ODI double century.

Fakhar Zaman scored 210 not out against Zimbabwe on 20 July 2018 — Pakistan's first ODI double century.

D. Wrong: Mohammad Rizwan has not scored an ODI double century.

Question 59 Pakistan Affairs

___ has signed the boundary agreement with china?

- A. Yahya Khan
- B. Zulfiqar Ali Butto
- C. Ayub Khan ✓ **Correct answer**
- D. Muhammad Ali Bogra

A. Wrong: Yahya Khan was not in power in 1963.

B. Wrong: Bhutto was Foreign Minister at the time, but the agreement was signed under Ayub Khan.

C. Correct: the Sino-Pakistan Boundary Agreement was signed on 2 March 1963 during President Ayub Khan's tenure.

D. Wrong: Bogra was Prime Minister in 1953–1955, before the agreement.

Question 60 Pakistan Affairs

Fifth Prime Minister of Pakistan was ___?

- A. Huseyn Shaheed Suhrawardy ✓ **Correct answer**
- B. Feroz Khan Noon
- C. LI Chundrigar
- D. Chaudhry Muhammad Ali

A. Correct: Suhrawardy was the fifth Prime Minister (September 1956 – October 1957).

B. Wrong: Noon was the sixth Prime Minister, succeeding Suhrawardy.

Chaudhry Muhammad Ali was the seventh Prime Minister.

D. Wrong: Chaudhry Muhammad Ali was the fourth Prime Minister.

Question 61 General Knowledge

How many countries are officially recognized as possessing nuclear weapons by the NPT:

- A. 4
- B. 5 ✓ **Correct answer**
- C. 6
- D. 7

A. Wrong: five states are recognised, not four.

B. Correct: under the NPT the five recognised nuclear-weapon states are the US, Russia, China, the UK and France.

C. Wrong: six is not the NPT figure.

D. Wrong: India, Pakistan and North Korea hold nuclear weapons but are not recognised under the NPT.

Question 62 General Knowledge

FATF stands for ___?

- A. Federal Agency Task Force
- B. Financial Authority Task Force
- C. Financial Action Task Force ✓ **Correct answer**
- D. None of these

A. Wrong: not the name of the body.

B. Wrong: the word is "Action", not "Authority".

C. Correct: FATF is the Financial Action Task Force, founded in 1989 to combat money

nd terrorist financing.

D. Wrong: C is correct.

Question 63 General Knowledge

What is common in Ecuador, Colombia, Brazil, Republic of the Congo, Maldives and Indonesia?

- A. Countries situated in Asia and Africa
- B. Same Longitude
- C. Equator passes through these countries ✓ **Correct answer**
- D. Same Topography

A. Wrong: Ecuador, Colombia and Brazil are in South America, not Asia or Africa.

B. Wrong: they lie on different longitudes.

C. Correct: the Equator passes through Ecuador, Colombia, Brazil, the Republic of the Congo, the Maldives and Indonesia.

D. Wrong: their landscapes differ widely.

Question 64 General Knowledge

New name of Zaire is:

- A. Congo ✓ **Correct answer**
- B. Chad
- C. Ghana
- D. Mozambique

A. Correct: Zaire was renamed the Democratic Republic of the Congo in 1997.

B. Wrong: Chad was never called Zaire.

C. Wrong: Ghana was formerly the Gold Coast.

ozambique was never called Zaire.

Question 65 General Knowledge

Currency of Kenya is ___?

- A. African Pound
- B. Real
- C. Pula
- D. Shilling ✓ **Correct answer**

A. Wrong: there is no "African Pound".

B. Wrong: the real is Brazil's currency.

C. Wrong: the pula is Botswana's currency.

D. Correct: Kenya's currency is the shilling (KSh).

Question 66 General Knowledge

Capital of Ukraine is ___?

- A. Luanda
- B. Kyiv ✓ **Correct answer**
- C. Nassau
- D. Montevideo

A. Wrong: Luanda is the capital of Angola.

B. Correct: Kyiv is the capital of Ukraine.

C. Wrong: Nassau is the capital of the Bahamas.

D. Wrong: Montevideo is the capital of Uruguay.

67 Current Affairs

What was the main declaration of the COP-26 Climate Conference held at Glasgow, Scotland?

- A. Urgent need to reduce greenhouse emissions
- B. Finalization of rules on reporting emissions and international carbon trading
- C. Launch of a range of new initiatives and sector deals
- D. All of these ✓ **Correct answer**

A. Wrong (as filed): true — the Glasgow Pact urged stronger pledges — but only one of the outcomes.

B. Wrong (as filed): true — the Paris rulebook was finalised — but only one outcome.

C. Wrong (as filed): true — deforestation, coal and vehicle pledges were launched — but only one outcome.

D. Correct: the COP26 outcomes covered all three.

Question 68 Current Affairs

Which country (Lies) took initiative to establish Asian Infrastructure Investment Bank?

- A. ASEAN
- B. China ✓ **Correct answer**
- C. G-7 Countries
- D. Turkey

A. Wrong: ASEAN did not propose the AIIB.

B. Correct: the AIIB was proposed by China in 2013 (President Xi Jinping) and launched in January 2016.

C. Wrong: the G7 did not propose the AIIB.

D. Wrong: Turkey was a founding member, not the initiator.

69 Current Affairs

Peace Plan to stop the Ukraine and Russia war was first proposed by China in collaboration with which country?

- A. Brazil ✓ **Correct answer**
- B. Qatar
- C. Indonesia
- D. Saudi Arabia

A. Correct: on 24 May 2024 China and Brazil jointly presented a six-point peace plan for Ukraine.

B. Wrong: Qatar was not the co-proposer of the six-point plan.

C. Wrong: Indonesia was not the co-proposer.

D. Wrong: Saudi Arabia hosted talks but did not co-propose the plan with China.

Question 70 General Knowledge

Mediterranean Sea is connected with Atlantic Ocean through Strait of ___?

- A. Gibraltar ✓ **Correct answer**
- B. Palk
- C. Cook
- D. Sunda

A. Correct: the Strait of Gibraltar connects the Atlantic Ocean with the Mediterranean Sea.

B. Wrong: the Palk Strait lies between India and Sri Lanka.

C. Wrong: Cook Strait is in New Zealand.

D. Wrong: the Sunda Strait is in Indonesia.

71 Current Affairs

The 16th annual BRICS summit was held in ___ on 22nd October, 2024?

- A. Shanghai, China
- B. Durban, South Africa
- C. Kazan, Russia ✓ **Correct answer**
- D. Sao Paulo, Brazil

A. Wrong: the 16th BRICS summit was not in Shanghai.

B. Wrong: Durban hosted the 15th summit in 2023.

C. Correct: the 16th BRICS Summit was held in Kazan, Russia, on 22 October 2024.

D. Wrong: the summit was not in Brazil.

Question 72 General Knowledge

Which agreement was replaced by South Asian free Trade Area?

- A. SAARC Preferential Trading Arrangement 1993 ✓ **Correct answer**
- B. SAARC Exclusive Trade Agreement 1994
- C. SAARC Non Trade Barriers Removal Agreement 1994
- D. SAARC Positive List Approval Agreement 1993

A. Correct: the South Asian Free Trade Area (SAFTA, in force 2006) replaced the SAARC Preferential Trading Arrangement (SAPTA, 1993).

B. Wrong: no such agreement was replaced by SAFTA.

C. Wrong: no such agreement was replaced by SAFTA.

D. Wrong: no such agreement was replaced by SAFTA.

73 General Knowledge

With respect to WTO, NAMA stands for ___?

- A. Non Agriculture Market Access ✓ **Correct answer**
- B. Non Agranan Market Association
- C. New Agriculture Managing Association
- D. None of these

A. Correct: in WTO negotiations NAMA stands for Non-Agricultural Market Access (printed "Acess").

B. Wrong: no such term.

C. Wrong: no such term.

D. Wrong: A is correct.

Question 74 Current Affairs

Nobel Peace Prize for 2024 has been awarded to:

- A. Bishop Titu
- B. Nihon Hidankyo ✓ **Correct answer**
- C. Antonic Guterres
- D. None of these

A. Wrong: no such laureate.

B. Correct: the 2024 Nobel Peace Prize was awarded to Nihon Hidankyo, the Japanese atomic-bomb survivors' organisation, announced 11 October 2024.

C. Wrong: António Guterres is the UN Secretary-General, not the 2024 laureate.

D. Wrong: B is correct.

75 General Knowledge

Which UN agency has its headquarters in Paris?

- A. UNICEF
- B. ILO
- C. IMF
- D. UNESCO ✓ **Correct answer**

A. Wrong: UNICEF is headquartered in New York.

B. Wrong: the ILO is headquartered in Geneva.

C. Wrong: the IMF is headquartered in Washington DC.

D. Correct: UNESCO's headquarters is in Paris.

Question 76 General Knowledge

Which country has the shortest written constitution in the world?

- A. Mali
- B. Malta
- C. Maldives
- D. Monaco ✓ **Correct answer**

A. Wrong: Mali's constitution is not the shortest.

B. Wrong: Malta's constitution is not the shortest.

C. Wrong: the Maldives' constitution is not the shortest.

D. Correct: Monaco's constitution, at about 3,814 words, is the shortest written constitution in the world.

Tsogdu, Folketing, Hrvatski, Vuan and Storting are the names of:

- A. Cities
- B. Historical Places
- C. Parliaments ✓ **Correct answer**
- D. Currencies

A. Wrong: these are not city names.

B. Wrong: these are not place names.

C. Correct: Tsogdu (Mongolia), Folketing (Denmark), Hrvatski Sabor (Croatia) and Storting (Norway) are parliaments.

D. Wrong: none of these is a currency.

Question 78 General Knowledge

According to Article 23 of UN Charter, the Security Council shall consist of ___ members of the United Nations?

- A. 15 ✓ **Correct answer**
- B. 14
- C. 13
- D. 12

A. Correct: under Article 23 of the UN Charter the Security Council consists of 15 members — 5 permanent and 10 non-permanent.

B. Wrong: the Council has 15 members, not 14.

C. Wrong: the Council has 15 members, not 13.

D. Wrong: the Council has 15 members, not 12.

79 General Knowledge

Which date world AIDS day is observed?

- A. October 12
- B. January 6
- C. December 1 ✓ **Correct answer**
- D. March 4

A. Wrong: World AIDS Day is not in October.

B. Wrong: World AIDS Day is not in January.

C. Correct: World AIDS Day is observed every year on 1 December.

D. Wrong: World AIDS Day is not in March.

Question 80 Current Affairs

Who is the current President of UN General Assembly?

- A. Duma Bako
- B. Alexander De Croo
- C. Edi Rama
- D. Phalemon Yang ✓ **Correct answer**

A. Wrong: no such UN General Assembly president.

B. Wrong: the former Prime Minister of Belgium, not the UNGA president.

C. Wrong: the Prime Minister of Albania, not the UNGA president.

D. Correct: as of the exam date (1 December 2024), Philémon Yang of Cameroon was President of the 79th session of the UN General Assembly.

81 General Science

A person suffering from long sight is corrected by using ___?

- A. Plane lens
- B. Concave lens
- C. Convex lens ✓ **Correct answer**
- D. None of these

A. Wrong: a plane lens has no power and corrects nothing.

B. Wrong: a concave lens corrects short sight, not long sight.

C. Correct: a convex lens converges light, correcting hypermetropia (long sight).

D. Wrong: C is correct.

Question 82 General Science

Bronze medal is made of ___?

- A. Copper & Tin ✓ **Correct answer**
- B. Iron & Nickel
- C. Copper & Zinc
- D. Iron & Zinc

A. Correct: bronze is an alloy of copper and tin.

B. Wrong: iron and nickel are not bronze.

C. Wrong: copper and zinc make brass, not bronze.

D. Wrong: iron and zinc are not bronze.

Question 83 General Science

Bones and teeth are mainly composed of ___?

- B. Calcium Sulphate
- C. Calcium Phosphate ✓ **Correct answer**
- D. Calcium Carbide

A. Wrong: calcium carbonate is found in shells and chalk, not as the main component of bone.

B. Wrong: calcium sulphate is gypsum, not the main component of bone.

C. Correct: bones and teeth are mainly calcium phosphate (hydroxyapatite).

D. Wrong: calcium carbide is an industrial chemical, not a bone component.

Question 84 General Science

What is the SI unit of force?

- A. Pascal
- B. Newton ✓ **Correct answer**
- C. Kilo Calorie
- D. Joule

A. Wrong: the pascal is the SI unit of pressure.

B. Correct: the SI unit of force is the newton (N).

C. Wrong: the kilocalorie is a unit of energy.

D. Wrong: the joule is the SI unit of energy.

Question 85 General Science

Newton's third law of motion describes:

- A. All the laws of motion
- B. Motion of an object

statements except 4th ✓ **Correct answer**

- D. Momentum and inertia

A. Wrong: the third law alone does not cover all three laws.

B. Wrong: that is the first and second laws' ground.

C. Correct: the third law covers the action-reaction statements (equal and opposite reaction), excluding the momentum-and-inertia statement.

D. Wrong: momentum and inertia belong to the first and second laws, not the third.

Question 86 General Science

Which of the following blood group is universal recipient?

- A. A+
- B. B+
- C. O+
- D. AB+ ✓ **Correct answer**

A. Wrong: A+ can receive only from A and O groups.

B. Wrong: B+ can receive only from B and O groups.

C. Wrong: O+ is the universal donor of red cells, not the recipient.

D. Correct: AB+ can receive red cells from all blood groups — the universal recipient.

Question 87 General Science

Sun remains visible even before actual sunrise due to ___?

- A. Atmospheric Refraction ✓ **Correct answer**
- B. Atmospheric Reflection
- C. Diffusion
- D. Scattering of Light

efraction bends sunlight around the Earth's curve, so the Sun is seen a few minutes before it actually rises.

B. Wrong: reflection does not produce this effect.

C. Wrong: diffusion is the scattering of light in all directions, not the bending that lifts the Sun's image.

D. Wrong: scattering explains the blue sky, not the early appearance of the Sun.

Question 88 General Science

Television signals cannot be received generally beyond a particular distance due to ___?

- A. Spreading of the signals
- B. Curvature of the earth ✓ **Correct answer**
- C. Weakness of antenna
- D. Weakness of the signals

A. Wrong: spreading weakens signals but is not the limiting factor.

B. Correct: TV signals travel in straight lines and cannot follow the Earth's curvature beyond the horizon.

C. Wrong: antennas can be strong and still lose line of sight.

D. Wrong: signal strength is not the limiting factor.

Question 89 General Science

Tungsten is used in Electric bulb because it has?

- A. High resistance
- B. High conduction
- C. Low resistance
- D. very high melting point ✓ **Correct answer**

gh resistance alone is not the reason tungsten is chosen.

B. Wrong: high conduction would not make a good filament.

C. Wrong: tungsten has high resistance, not low.

D. Correct: tungsten's very high melting point (about 3422 °C) lets the filament glow white-hot without melting.

Question 90 General Science

A weather balloon is not fully inflated on the ground because ___?

- A. it cannot rise up in the air when fully inflated
- B. it cannot fly in the air when fully inflated
- C. air inside it expands and may burst as it goes up ✓ **Correct answer**
- D. it cannot withstand the atmospheric pressure when fully inflated

A. Wrong: a fully inflated balloon can rise; the danger is different.

B. Wrong: the issue is not inability to fly.

C. Correct: air pressure falls with altitude, so the air inside expands; a fully inflated balloon would burst (printed "brust").

D. Wrong: ground pressure is the highest it faces; the risk comes from expansion aloft.

Question 91 General Science

Permanent hardness of water can be removed by adding ___?

- A. Magnesium Sulphate ✓ **Correct answer**
- B. Calcium Sulphate
- C. Sodium carbonate
- D. Caustic Soda

A. Correct: as keyed in the paper, magnesium sulphate is the answer given for removing

hardness (in the standard treatment, washing soda / sodium carbonate is the usual reagent; the paper's printed key is A).

B. Wrong: calcium sulphate causes hardness; it does not remove it.

C. Wrong (as filed): sodium carbonate (washing soda) is the usual textbook reagent, but the paper's printed key is A.

D. Wrong: caustic soda is not the answer keyed in this paper.

Note: Note: As keyed in the paper (A). The standard textbook reagent for permanent hardness is washing soda (sodium carbonate, option C); the paper's printed key is A and is kept as printed, since the item's own key stands. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 92 General Science

Which vitamin is produce by the sun light on the body?

- A. Vitamin A
- B. Vitamin B
- C. Vitamin C
- D. Vitamin D ✓ **Correct answer**

A. Wrong: vitamin A comes from diet (retinol/carotenoids), not sunlight.

B. Wrong: B vitamins come from food, not sunlight.

C. Wrong: vitamin C comes from food, not sunlight.

D. Correct: sunlight on the skin produces vitamin D.

Question 93 General Science

What is the refrigeration gas used in the refrigerator?

- A. Argon

- C. Carbon dioxide
- D. Ammonia ✓ **Correct answer**

A. Wrong: argon is an inert gas used in bulbs, not a refrigerant.

B. Wrong: CFCs were used as refrigerants but were phased out; the paper's key is ammonia.

C. Wrong: CO2 is not the gas keyed in this paper.

D. Correct: ammonia (R717) is the traditional refrigeration gas keyed in this paper.

Question 94 General Science

Photosynthesis takes place fastest in which light?

- A. Yellow light
- B. Green light
- C. Red light ✓ **Correct answer**
- D. Blue light

A. Wrong: photosynthesis is slower in yellow light than in red or blue.

B. Wrong: green light is mostly reflected by leaves (why they look green).

C. Correct: photosynthesis is fastest in red light (with blue close), as red is most strongly absorbed by chlorophyll.

D. Wrong: blue light is also strongly absorbed, but the paper's key is red.

Question 95 General Science

A blade of a knife floats on a liquid in a vessel because of ___?

- A. Surface Tension ✓ **Correct answer**
- B. Buoyant force

sity of the blade

- D. Density of liquid

A. Correct: the surface tension of the liquid supports the thin blade.

B. Wrong: the blade is denser than the liquid, so buoyancy alone would not float it.

C. Wrong: the blade's density is greater than the liquid's.

D. Wrong: density alone does not explain the floating.

Question 96 General Science

Ozone layer in the upper atmosphere protects us from ___?

- A. Infrared rays
- B. X-Rays
- C. Ultraviolet rays ✓ **Correct answer**
- D. Cosmic rays

A. Wrong: the ozone layer does not block infrared rays.

B. Wrong: X-rays are absorbed higher in the atmosphere, not by ozone.

C. Correct: the ozone layer absorbs most of the Sun's ultraviolet radiation.

D. Wrong: cosmic rays are not blocked by the ozone layer.

Question 97 General Science

How many bones are there in the adult human body?

- A. 300
- B. 106
- C. 156
- D. 206 ✓ **Correct answer**

about 300 bones are present at birth; many fuse during growth.

B. Wrong: far fewer than the adult count.

C. Wrong: fewer than the adult count.

D. Correct: the adult human body has 206 bones.

Question 98 General Science

Deficiency of Vitamin A causes ___?

- A. Rickets
- B. Night Blindness ✓ **Correct answer**
- C. Beriberi
- D. Scurvy

A. Wrong: rickets is caused by vitamin D deficiency.

B. Correct: vitamin A deficiency causes night blindness.

C. Wrong: beriberi is caused by vitamin B1 deficiency.

D. Wrong: scurvy is caused by vitamin C deficiency.

Question 99 General Science

Why is a filament type light bulb hotter than a fluorescent lamp of the same size?

- A. Filament bulb has more voltage
- B. Filament bulb has more current
- C. Filament bulb is based on incandescence ✓ **Correct answer**
- D. None of these

A. Wrong: voltage alone does not make the bulb hotter.

B. Wrong: current alone does not explain the heat.

filament bulb glows by incandescence — heating the filament until it is white-hot — while a fluorescent lamp does not.

D. Wrong: C is correct.

Question 100 General Science

On a clear night, why is the temperature of the ground surface lower than that of the air above it?

- A. Radiation ✓ **Correct answer**
- B. Conduction
- C. Evaporation
- D. Convection

A. Correct: on a clear night the ground loses heat by radiation to the sky, cooling faster than the air above it (key printed "Radiaiton").

B. Wrong: conduction transfers heat to the ground, not away to the sky.

C. Wrong: evaporation is not the main cooling mechanism here.

D. Wrong: convection moves air, but the ground cools by radiating heat away.

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