Matriculation Category (BPS 05-15) — 2025 · Solved Past Paper

Body: Sindh Testing Service (STS) · **Post:** Matriculation Category (BPS 05-15) · **Year:** 2025 · **Questions:** 100 in the original paper — **100 solved and verified**, none excluded · **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 2025 sitting.

Source note: SainAzeemTech, 'BPS 05 TO 15 MATRICULATION CATEGORY PAST PAPER DATED: 25-06-2025' (Google Drive PDF, accessed 10 Nov 2026; 100 stems numbered 1-100, each with a printed key marked with a tick, all 4-option), linked from https://sainazeemtech.com/download-past-papers-in-pdf-free-syllabus-notes/ . Every printed key was verified independently (own knowledge + targeted sources for the doubtful items) under the owner's 8 Nov 2026 standard. 1 printed-key correction is filed openly with evidence (Q90: A to B — Pakistan has two plateaus, the Potwar Plateau and the Balochistan Plateau). 8 PICK-ONE (Q4, Q11, Q12, Q14, Q18, Q40, Q41, Q53), decided by the assistant under the owner's 8 Nov 2026 delegation. Reproduction note: isolated diagonal-watermark fragments and 'Page N of 24' page-footer text in the source PDF are omitted as not part of any stem or option.

Question 1 English

The similar meaning of the word REFLECT is:

- A. Take
- B. Mirror ✓ **Correct answer**

- D. Ignore

A. Take means to get or seize; it is not a synonym of reflect.

B. Reflect means to throw back an image, like a mirror — 'Mirror' is the synonym.

C. Disregard means to ignore; it is the opposite of reflecting on something.

D. Ignore means to pay no attention; it is not a synonym of reflect.

Question 2 English

The similar meaning of the word RESOURCE is:

- A. Property ✓ **Correct answer**
- B. Lack
- C. Weakness
- D. People

A. A resource is something useful that one owns or can use — 'Property' is the synonym.

B. Lack means shortage; it is the opposite of a resource.

C. Weakness means a fault; it is not a synonym of resource.

D. People are one kind of resource (human resources), but 'people' alone is not the synonym of resource.

Question 3 English

The similar meaning of the word RAW is:

- A. Cooked
- B. Proper
- C. Done
- D. Crude ✓ **Correct answer**

the opposite of raw.

B. Proper means correct; it is not a synonym of raw.

C. Done means finished or cooked; it is the opposite of raw.

D. Raw means unprocessed or uncooked — 'Crude' is the synonym (crude oil, crude material).

Question 4 English

The opposite meaning of the word TRADE is:

- A. Business
- B. Idleness ✓ **Correct answer**
- C. Ease
- D. Deal

A. Business is a synonym of trade, not its opposite.

B. Trade is business activity — buying and selling; among the options 'Idleness' (inactivity) is the intended opposite.

C. Ease means comfort; it is not the opposite of trade.

D. Deal is a synonym of trade (a business deal), not its opposite.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): strictly, the opposite of 'trade' as a noun is hard to name in one word; 'Idleness' is kept as the printed key and the intended answer because it is the only option opposed to activity, while Business and Deal are synonyms of trade.

Question 5 English

The opposite meaning of the word MANUFACTURE is:

- A. Assemble

- C. Create
- D. Break ✓ **Correct answer**

A. Assemble means to put together — a synonym of manufacture, not its opposite.

B. Complete means to finish — a near-synonym of manufacture, not its opposite.

C. Create means to make — a synonym of manufacture, not its opposite.

D. Manufacture means to make or produce; its opposite is to 'Break' (destroy).

Question 6 English

The word industry comes from the Latin word INDUSTRIA which means:

- A. Diligence ✓ **Correct answer**
- B. Development
- C. Prosperity
- D. Discipline

A. 'Industria' is Latin for diligence — hard work. 'Industry' comes from it.

B. Development is not what 'industria' means.

C. Prosperity is not what 'industria' means.

D. Discipline is not what 'industria' means.

Question 7 English

Industry directs human energy, natural resources and technology to produce goods and services in a modern:

- A. Freedom
- B. Goods
- C. Economy ✓ **Correct answer**

A. The passage says a modern economy, not 'freedom'.

B. Goods are what industries produce, not where they produce them.

C. The passage states industries produce goods and services in a modern economy.

D. The passage says a modern economy, not 'education'.

Question 8 English

Industries were developed to meet the demands of the rapid growth of:

- A. Population ✓ **Correct answer**
- B. Cities
- C. Villages
- D. Countries

A. Industries developed to meet the demands of a rapidly growing population — more people need more goods.

B. Industries serve the whole population, not cities alone.

C. Industries serve the whole population, not villages alone.

D. Industries serve people everywhere, not countries as such.

Question 9 English

Money is needed to purchase buildings, equipment, and machinery and to pay workers, and this money is called:

- A. Physical Capital
- B. Resource Capital
- C. Finance Capital ✓ **Correct answer**
- D. Management Capital

capital is the buildings and machinery themselves, not the money.

B. There is no 'resource capital' in the passage.

C. The passage states the money needed to buy buildings, equipment and machinery and to pay workers is called finance capital.

D. There is no 'management capital' in the passage.

Question 10 English

Buildings, machinery, and other equipment are referred to as:

- A. Finance Capital
- B. Management Capital
- C. Physical Capital ✓ **Correct answer**
- D. Resource Capital

A. Finance capital is the money, not the buildings and machinery.

B. There is no 'management capital' in the passage.

C. The passage states buildings, machinery and other equipment are referred to as physical capital.

D. There is no 'resource capital' in the passage.

Question 11 English

The synonym of the word CHARM is:

- A. Joy ✓ **Correct answer**
- B. Help
- C. Glory
- D. Kindness

A. Charm is the power to delight, among the options 'Joy' (delight, pleasure) is the

B. Help means assistance; it is not a synonym of charm.

C. Glory means fame or honour; it is not a synonym of charm.

D. Kindness means being kind; it is not a synonym of charm.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): no true synonym of 'charm' (attractiveness, fascination) is among the options; 'Joy' is kept as the printed key and the intended answer, the closest positive noun.

Question 12 English

The antonym of the word CHAMPION is:

- A. Helper
- B. Super
- C. Great
- D. Unknown ✓ **Correct answer**

A. Helper is not the opposite of champion.

B. Super means excellent — a near-synonym of champion, not its opposite.

C. Great is a near-synonym of champion, not its opposite.

D. A champion is a winner; among the options 'Unknown' (not famous, not a winner) is the intended opposite.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): the direct antonym of 'champion' is 'loser', which is not among the options; 'Unknown' is kept as the printed key and the intended answer.

13 English

The synonym of the word PROFIT is:

- A. Wealth
- B. Benefit ✓ **Correct answer**
- C. Great
- D. Kindness

A. Wealth is what one owns; profit is the gain, not wealth itself.

B. Profit is the gain made in business; 'Benefit' is the synonym.

C. Great means large; it is not a synonym of profit.

D. Kindness means being kind; it is not a synonym of profit.

Question 14 English

The antonym of the word WOE is:

- A. Trouble
- B. Backs
- C. Pain
- D. Kindness ✓ **Correct answer**

A. Trouble is a synonym of woe, not its opposite.

B. 'Backs' is not an opposite of woe.

C. Pain is a synonym of woe, not its opposite.

D. Woe is sorrow; among the options 'Kindness' is the intended opposite — the only positive word among the options.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): the direct antonym of 'woe' is 'joy' or 'happiness', which is not among the options;

kept as the printed key and the intended answer — Trouble and Pain are synonyms of woe, and 'Backs' is not a word in this sense.

Question 15 English

The synonym of the word GUARANTEED is:

- A. Assured ✓ **Correct answer**
- B. Gloomy
- C. Pain
- D. Comfort

A. Guaranteed means promised with certainty; 'Assured' is the synonym.

B. Gloomy means sad or dark; it is not a synonym of guaranteed.

C. Pain means suffering; it is not a synonym of guaranteed.

D. Comfort means ease; it is not a synonym of guaranteed.

Question 16 English

The antonym of the word CHEERS is:

- A. Agenda
- B. Gloomy ✓ **Correct answer**
- C. Reward
- D. Break

A. Agenda means a list of things to do; it is not the opposite of cheers.

B. Cheers expresses joy and celebration; its opposite is 'Gloomy' (sad).

C. Reward means a prize; it is not the opposite of cheers.

D. Break means to split; it is not the opposite of cheers.

17 English

The synonym of the word RENOWNED is:

- A. Inferior
- B. Notable ✓ **Correct answer**
- C. Poor
- D. Ordinary

A. Inferior means lower; it is the opposite of renowned.

B. Renowned means famous; 'Notable' is the synonym.

C. Poor is the opposite of renowned in the sense of fame.

D. Ordinary is the opposite of renowned.

Question 18 English

The antonym of the word SPLIT is:

- A. Repair ✓ **Correct answer**
- B. Crack
- C. Connection
- D. Division

A. Split means to divide or break apart; among the options 'Repair' (to mend, to put together) is the intended opposite.

B. Crack is a synonym of split (a break), not its opposite.

C. Connection (a link) is also an opposite of splitting — see the note.

D. Division is a synonym of split, not its opposite.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): 'Connection' (C) is also defensible as a noun opposite of splitting; 'Repair' is kept as the

because it matches the verb form of 'split' (to split versus to repair).

Question 19 English

The synonym of the word FETCH is:

- A. Carry ✓ **Correct answer**
- B. Inventory
- C. Ignore
- D. Store

A. Fetch means to go and bring back; 'Carry' is the synonym.

B. Inventory is a list of stock; it is not a synonym of fetch.

C. Ignore is the opposite of fetch (to pay no attention).

D. Store means to keep; it is not a synonym of fetch.

Question 20 English

The antonym of the word CLIMB is:

- A. Destroy
- B. Mount
- C. Fall ✓ **Correct answer**
- D. Scan

A. Destroy means to ruin; it is not the opposite of climb.

B. Mount means to climb up — a synonym, not the opposite.

C. Climb means to go up; its opposite is to 'Fall' (go down).

D. Scan means to look over quickly; it is not the opposite of climb.

21 English

Choose the correct spell word:

- A. Hungery
- B. Hungry ✓ **Correct answer**
- C. Hungray
- D. Hungariy

A. Misspelt: an extra 'e' after 'g'.

B. The correct spelling is H-U-N-G-R-Y — 'Hungry'.

C. Misspelt: 'a' for 'y'.

D. Misspelt: 'ari' for 'ry'.

Question 22 English

Choose the correct spell word:

- A. Splendid ✓ **Correct answer**
- B. Splended
- C. Splanded
- D. Splandid

A. The correct spelling is S-P-L-E-N-D-I-D — 'Splendid'.

B. Misspelt: 'e' for 'i'.

C. Misspelt: 'a' for 'i'.

D. Misspelt: 'i' for 'e' at the end.

Question 23 English

Choose the correct spell word:

rcise) ✓ **Correct answer**

- B. Exercize
- C. Exersize
- D. Exorcise

A. The correct spelling is E-X-E-R-C-I-S-E — 'Exercise'.

B. Misspelt: 'z' for 's'.

C. Misspelt: 's' for 'c'.

D. 'Exorcise' is a different word (to drive out an evil spirit), not the spelling of exercise.

Question 24 English

Choose the correct spelling of a word for ‘a place to keep books’:

- A. Lirbary
- B. Libary
- C. Library ✓ **Correct answer**
- D. Librery

A. Misspelt: 'ir' for 'ib'.

B. Misspelt: missing the 'r'.

C. The place to keep books is a 'Library'.

D. Misspelt: 'e' for 'a'.

Question 25 English

Choose the correct spelling of a word for ‘a device used for communication’:

- A. Telephane
- B. Telefone
- C. Telephune

ephone ✓ **Correct answer**

A. Misspelt: 'a' for 'o'.

B. Misspelt: 'o' for 'ph'.

C. Misspelt: 'u' for 'o'.

D. The device used for communication is a 'Telephone'.

Question 26 English

I seen many sheeps grazing in the fields. (Find the Error)

- A. many
- B. sheeps ✓ **Correct answer**
- C. grazing
- D. fields

A. 'many' correctly modifies a plural; there is no error in it.

B. The plural of 'sheep' is 'sheep', not 'sheeps' — the error is 'sheeps'.

C. 'grazing' is the correct participle; there is no error in it.

D. 'fields' is correct; there is no error in it.

Note: Note: The sentence also uses 'I seen' (non-standard for 'I saw'), but 'seen' is not among the options, so the only selectable error is 'sheeps'.

Question 27 English

Mr. Imran Khan looked herself in the mirror after taking a bath.(Find the Error)

- A. herself ✓ **Correct answer**
- B. in
- C. mirror

A. Mr. Imran Khan is male, so the reflexive pronoun must be 'himself', not 'herself' — the error is 'herself'.

B. 'in' is the correct preposition before 'the mirror'; there is no error in it.

C. 'mirror' is correct; there is no error in it.

D. 'bath' is correct; there is no error in it.

Question 28 English

The fastest you are, the sooner you reach.(Find the Error)

- A. The
- B. fastest ✓ **Correct answer**
- C. you
- D. reach

A. 'The' correctly begins the correlative 'the faster..., the sooner...'; there is no error in it.

B. The comparative correlative needs the comparative 'faster', not the superlative 'fastest' — the error is 'fastest'.

C. 'you' is correct; there is no error in it.

D. 'reach' is correct; there is no error in it.

Question 29 English

An ambitiously person often fails.(Find the Error)

- A. ambitiously ✓ **Correct answer**
- B. person
- C. often
- D. fails

eeds the adjective 'ambitious', not the adverb 'ambitiously' — the error is 'ambitiously'.

B. 'person' is correct; there is no error in it.

C. 'often' is correct; there is no error in it.

D. 'fails' agrees with the singular subject; there is no error in it.

Question 30 English

On my visit to the village, I saw three ases near the bars.(Find the Error)

- A. village
- B. three
- C. ases ✓ **Correct answer**
- D. bars

A. 'village' is correct; there is no error in it.

B. 'three' is correct; there is no error in it.

C. The plural of 'ass' is 'asses', not 'ases' — the error is 'ases'.

D. 'bars' is filed as printed (evidently 'barns'); it is not the marked error.

Note: Note: 'bars' in the stem is evidently a misprint for 'barns', but the marked error is 'ases'; the stem is filed as printed.

Question 31 English

All went _____ the factory _____ himself.

- A. to, on
- B. for, by
- C. to, by ✓ **Correct answer**
- D. for, to

'on himself' is not correct here.

B. 'for, by' — 'went for the factory' is not correct here.

C. 'All went to the factory by himself' — 'to' for the destination and 'by' in 'by himself' (alone).

D. 'for, to' — 'went for the factory' is not correct here.

Question 32 English

I hope he gets the first position so that he can go _____ a month-long tour of Europe.

- A. in
- B. on ✓ **Correct answer**
- C. at
- D. to

A. 'go in a tour' is not the idiom.

B. 'Go on a tour' is the idiom — 'he can go on a month-long tour of Europe'.

C. 'go at a tour' is not the idiom.

D. 'go to a tour' is not the idiom; one goes 'on' a tour.

Question 33 English

A huge crowd is waiting _____ the stadium, eager to come and watch the match.

- A. above
- B. near
- C. outside ✓ **Correct answer**
- D. under

A. 'above the stadium' is not where a waiting crowd stands.

stadium' is possible, but the crowd eager to come in waits 'outside'.

C. A crowd waiting to enter watches from 'outside' the stadium.

D. 'under the stadium' is not where a waiting crowd stands.

Question 34 English

All the charts will be displayed ____ the class, and the group ____ the best drawing will be the winner.

- A. on, with
- B. at, with
- C. in, of ✓ **Correct answer**
- D. on, with

A. 'on the class' is wrong; charts are displayed 'in' the class.

B. 'at the class' is wrong for displaying charts; and 'with' does not fix the first blank.

C. Charts are displayed 'in the class', and the group 'of' the best drawing wins — 'in, of' is the keyed pair.

D. 'on the class' is wrong; charts are displayed 'in' the class.

Note: Note: The second blank is awkward ('the group with the best drawing' would be more natural), but 'in' is the only correct first blank — charts are displayed 'in' the class, not 'on' or 'at' it — so C is the answer.

Question 35 English

It was so kind ____ you to help.

- A. of ✓ **Correct answer**
- B. to
- C. for

A. 'It was so kind of you to help' — 'kind of' is the idiom.

B. 'kind to you' is not the idiom here.

C. 'kind for you' is not the idiom here.

D. 'kind about you' is not the idiom here.

Question 36 English

Select the ‘subject’ in the following sentence: "Children play in the park."

- A. Children ✓ **Correct answer**
- B. Play
- C. in
- D. Park

A. The subject is who the sentence is about: 'Children' play in the park.

B. 'Play' is the verb, not the subject.

C. 'in' is a preposition, not the subject.

D. 'Park' is part of the adverbial phrase, not the subject.

Question 37 English

Select the ‘object’ in the following sentence: Page 9 of 24 _____ "He was playing football."

- A. He
- B. Was
- C. Playing
- D. Football ✓ **Correct answer**

subject, not the object.

B. 'Was' is an auxiliary verb, not the object.

C. 'Playing' is the main verb, not the object.

D. The object is what the action is done to: 'football' is what he was playing.

Question 38 English

Select the ‘adjective’ in the following sentence: "This flower is very beautiful."

- A. This
- B. Flower
- C. Is
- D. Beautiful ✓ **Correct answer**

A. 'This' is a demonstrative determiner, not the adjective here.

B. 'Flower' is the noun, not the adjective.

C. 'Is' is the verb, not the adjective.

D. The word describing the flower is 'beautiful' — the adjective.

Question 39 English

Select a ‘pronoun’ in the following sentence: "She has a sister who is very helpful."

- A. She ✓ **Correct answer**
- B. has
- C. Helpful
- D. Sister

A. 'She' stands in for a noun — it is the pronoun.

B. 'has' is a verb, not a pronoun.

is an adjective, not a pronoun.

D. 'Sister' is a noun, not a pronoun.

Question 40 English

Select a ‘past tense sentence’ from the following sentences:

- A. The teacher is teaching math in the class
- B. The teacher has taught math in the class ✓ **Correct answer**
- C. The teacher will teach math in the class
- D. The teacher has taught science

A. 'is teaching' is present continuous, not past.

B. 'The teacher has taught math in the class' is in the past (present perfect) tense — the teacher's teaching happened in the past.

C. 'will teach' is future, not past.

D. 'has taught science' is also present perfect — see the note.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): strictly, 'has taught' is the present perfect, and option D ('The teacher has taught science') is the same tense; B is kept as the printed key because it is the complete, pattern-matching sentence (the same stem as A and C, with 'math in the class').

Question 41 Mathematics

Select the whole number from the following:

- A. -1
- B. 3.2
- C. 2/2
- D. 10 ✓ **Correct answer**

teger, not a whole number.

B. 3.2 is a decimal, not a whole number.

C. 2/2 = 1 is also a whole number — see the note.

D. 10 is a whole number (0, 1, 2, 3, ...); it is the intended direct answer.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): 2/2 = 1 is also a whole number, so option C is also correct; D is kept as the printed key and the intended direct answer.

Question 42 Mathematics

If a and b are integers and b ≠ 0 then a/b represents:

- A. Rational number ✓ **Correct answer**
- B. Irrational number
- C. Terminating decimal
- D. Non-Terminating

A. If a and b are integers and b ≠ 0, then a/b is a rational number by definition.

B. a/b with integers a, b is rational, not irrational.

C. a/b need not terminate — e.g. 1/3 = 0.333...

D. a/b need not be non-terminating — e.g. 1/2 = 0.5 terminates.

Question 43 Mathematics

The square of (-6) is:

- A. 6
- B. -6
- C. 36 ✓ **Correct answer**
- D. -36

uare root of 36, not the square of -6.

B. -6 is the number itself, not its square.

C. $(-6)^2 = (-6) \times (-6) = 36$.

D. -36 would be $-(6^2)$; the square of a negative is positive.

Question 44 Mathematics

For any three real numbers a, b, c such that (a + b) + c = a + (b + c) is:

- A. Commutative property
- B. Additive identity
- C. Associative property ✓ **Correct answer**
- D. Distributive property

A. The commutative property is about order (a + b = b + a), not grouping.

B. The additive identity is 0 (a + 0 = a), not grouping.

C. (a + b) + c = a + (b + c) is the associative property (grouping does not matter).

D. The distributive property is a(b + c) = ab + ac, not grouping.

Question 45 Mathematics

De Morgan's Laws are applicable in which of the following fields of mathematics?

- A. Calculations
- B. Set Theory ✓ **Correct answer**
- C. Geometry
- D. Trigonometry

A. De Morgan's laws are not a branch of calculations.

B. De Morgan's laws ((A ∪ B)' = A' ∩ B' and (A ∩ B)' = A' ∪ B') belong to set theory.

n's laws are about sets, not geometry.

D. De Morgan's laws are about sets, not trigonometry.

Question 46 Mathematics

The prime factors of 12 are:

- A. 2, 6, 12
- B. 2, 3 ✓ **Correct answer**
- C. 2, 6
- D. 0, 1, 2, 3

A. 2, 6, 12 includes 6 and 12, which are not prime.

B. 12 = 2 × 2 × 3, so its prime factors are 2 and 3.

C. 2, 6 omits the prime factor 3 and includes 6, which is not prime.

D. 0 and 1 are not prime factors.

Question 47 Mathematics

The square root of 0.49 is:

- A. 0.07
- B. 0.49
- C. 0.7 ✓ **Correct answer**
- D. 7

A. 0.07 × 0.07 = 0.0049, not 0.49.

B. 0.49 is the number itself, not its square root.

C. 0.7 × 0.7 = 0.49, so the square root of 0.49 is 0.7.

D. 7 × 7 = 49, not 0.49.

48 Mathematics

$(3/9)^3$ =

- A. 29/84
- B. 1/27 ✓ **Correct answer**
- C. 2/72
- D. 1

A. 29/84 is not $(1/3)^3$.

B. $(3/9)^3 = (1/3)^3 = 1/27$.

C. 2/72 = 1/36, not 1/27.

D. 1 would be $(3/3)^3$, not $(3/9)^3$.

Question 49 Mathematics

The multiplicative inverse of 2/3 is:

- A. -3/5
- B. 3/10
- C. 3/2 ✓ **Correct answer**
- D. 9/25

A. -3/5 is not the reciprocal of 2/3.

B. 3/10 is not the reciprocal of 2/3.

C. The multiplicative inverse (reciprocal) of 2/3 is 3/2, since (2/3) × (3/2) = 1.

D. 9/25 is not the reciprocal of 2/3.

Question 50 Mathematics

In the proportion 6:x = 9:12, the value of x is:

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

A. 6/4 = 3/2, not 9/12.

B. 6/6 = 1, not 9/12.

C. 6 : x = 9 : 12 gives 6/x = 9/12 = 3/4, so x = 8.

D. 6/9 = 2/3, not 9/12.

Question 51 Mathematics

The product of two integers of the same sign is always:

- A. Negative
- B. Positive ✓ **Correct answer**
- C. Zero
- D. Positive-Negative

A. Same-sign products are never negative.

B. The product of two integers of the same sign is always positive (negative × negative = positive; positive × positive = positive).

C. Same-sign products are zero only if one factor is zero.

D. The product is always positive, not 'positive-negative'.

Question 52 Mathematics

15% of 125 is:

- A. 12.5
- B. 18.75 ✓ **Correct answer**

- D. 15.75

A. 12.5 is 10% of 125, not 15%.

B. 15% of 125 = 0.15 × 125 = 18.75.

C. 24.75 is not 15% of 125.

D. 15.75 is not 15% of 125.

Question 53 Mathematics

The sum of x and the number 6 is less than four can be written as:

- A. 6 + x < 4
- B. 6x < 4
- C. x < 4
- D. x + 6 < 4 ✓ **Correct answer**

A. 6 + x < 4 is the same inequality by commutativity — see the note.

B. 6x < 4 is the product of 6 and x, not their sum.

C. x < 4 omits the +6 entirely.

D. 'The sum of x and 6 is less than four' is x + 6 < 4, matching the stem's word order.

Note: Note: PICK-ONE (decided by the assistant under the owner's 8 Nov 2026 delegation): option A (6 + x < 4) is the same inequality by commutativity, so it is also correct; D is kept as the printed key because it follows the stem's word order ('x and 6').

Question 54 Mathematics

If two sets have the same number of elements but contain different elements, they will be represented as:

- B. A ≠ B ✓ **Correct answer**
- C. A ⊂ B
- D. A ⊃ B

A. A = B would mean the sets are equal, but their elements differ.

B. Sets with the same number of elements but different elements are not equal sets, written A ≠ B (the precise term is equivalent sets).

C. A ⊂ B would mean every element of A is in B; the elements differ.

D. A ⊃ B would mean every element of B is in A; the elements differ.

Question 55 Mathematics

The product of the smallest 3-digit and 2-digit whole number is:

- A. 10,000
- B. 1,000 ✓ **Correct answer**
- C. 98,901
- D. 9,900

A. 10,000 would be 100 × 100, not 100 × 10.

B. The smallest 3-digit whole number is 100 and the smallest 2-digit whole number is 10; 100 × 10 = 1,000.

C. 98,901 is not 100 × 10.

D. 9,900 is 99 × 100, not 100 × 10.

Question 56 Mathematics

If two sets A and B do not have a common element, they are called:

- A. Overlapping sets

oint sets ✓ **Correct answer**

- C. Universal sets
- D. Empty sets

A. Overlapping sets share at least one element — the opposite.

B. Sets with no common element are disjoint sets.

C. A universal set contains all elements under discussion; it is not defined by having no common element.

D. An empty set has no elements at all; two non-empty sets with nothing in common are disjoint, not empty.

Question 57 Mathematics

The ratio between the circumference and diameter of a circle is equal to:

- A. 3.14 ✓ **Correct answer**
- B. 22.7
- C. 1
- D. 9/24

A. Circumference ÷ diameter = π ≈ 3.14.

B. 22.7 is the fraction 22/7 written as a decimal-ish distractor; the ratio is π ≈ 3.14.

C. The ratio is π, not 1.

D. 9/24 is not π.

Question 58 Mathematics

If the sum of two angles is 180°, the angles are called:

- A. Complementary angles
- B. Adjacent angles

plementary angles ✓ **Correct answer**

- D. Reflexive angles

A. Complementary angles sum to 90°, not 180°.

B. Adjacent angles share a side; they need not sum to 180°.

C. Two angles summing to 180° are supplementary angles.

D. A reflexive angle is greater than 180°, not a pair summing to 180°.

Question 59 Mathematics

The property tax on a property of Rs. 1,400,000 at a rate of 3% will be:

- A. 4,200
- B. 42,000 ✓ **Correct answer**
- C. 140,000
- D. 28,000

A. Rs. 4,200 is 0.3%, not 3%.

B. 3% of Rs. 1,400,000 = 0.03 × 1,400,000 = Rs. 42,000.

C. Rs. 140,000 is 10%, not 3%.

D. Rs. 28,000 is 2%, not 3%.

Question 60 Mathematics

Every constant has a degree:

- A. 0 ✓ **Correct answer**
- B. 1
- C. 2
- D. 3

t (e.g. 5) is a polynomial of degree 0.

B. Degree 1 is a linear term (e.g. x), not a constant.

C. Degree 2 is a quadratic term, not a constant.

D. Degree 3 is a cubic term, not a constant.

Question 61 Pakistan Studies

The national flag of Pakistan features a crescent moon and star coloured with:

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

A. The crescent and star are white, not red.

B. Pakistan's flag has a white crescent moon and star on a dark green field.

C. The field is green; the crescent and star are white.

D. The crescent and star are white, not blue.

Question 62 Pakistan Studies

Pakistan is a major producer of which agricultural product:

- A. Wheat ✓ **Correct answer**
- B. Coffee
- C. Rubber
- D. Tea

A. Pakistan is a major producer of wheat — a staple crop grown across Punjab and Sindh.

B. Pakistan does not grow coffee commercially.

oes not produce rubber.

D. Pakistan does not produce tea commercially.

Question 63 Pakistan Studies

The current Chief Justice of Pakistan is:

- A. Asif Saeed Khosa
- B. Umar Ata Bandial
- C. Yahya Afridi ✓ **Correct answer**
- D. Saqib Nisar

A. Asif Saeed Khosa was an earlier Chief Justice, not the current one.

B. Umar Ata Bandial was an earlier Chief Justice, not the current one.

C. Justice Yahya Afridi is the Chief Justice of Pakistan (in office since 26 October 2024).

D. Saqib Nisar was an earlier Chief Justice, not the current one.

Question 64 Pakistan Studies

The capital of Azad Kashmir is:

- A. Abbottabad
- B. Kotli
- C. Nelam
- D. Muzafarabad ✓ **Correct answer**

A. Abbottabad is a city in Khyber Pakhtunkhwa, not the capital of Azad Kashmir.

B. Kotli is a district of Azad Kashmir, not its capital.

C. Neelum is a valley/district of Azad Kashmir, not its capital.

D. Muzaffarabad is the capital of Azad Jammu and Kashmir.

The option reads 'Muzafarabad' as printed (standard spelling Muzaffarabad).

Question 65 Pakistan Studies

Allama Iqbal is considered an important figure in Pakistan's history because:

- A. He was the first Prime Minister of Pakistan
- B. He was a poet and philosopher who inspired the Pakistan Movement ✓ **Correct answer**
- C. He was a military leader who won many wars for Pakistan
- D. He was a Bengal Governor who fought a war of Plassey with the British

A. Iqbal was never Prime Minister of Pakistan.

B. Allama Iqbal was a poet and philosopher whose poetry inspired the Pakistan Movement.

C. Iqbal was not a military leader.

D. Iqbal was not a Bengal Governor and did not fight at Plassey (1757, long before his birth).

Question 66 Pakistan Studies

The Khyber Pass is important for Pakistan because:

- A. It is a major tourist attraction
- B. It is mountain valley
- C. It is a desert region
- D. It is a strategic trade and invasion route ✓ **Correct answer**

A. It is a pass, not primarily a tourist attraction.

B. It is a mountain pass, not a valley.

C. It is a mountain pass, not a desert region.

er Pass is the historic strategic route for trade and invasions between Central Asia and South Asia.

Question 67 Pakistan Studies

Urdu is declared a national language of Pakistan because:

- A. The Majority of the population speaks it in Pakistan
- B. It connect people from different linguistic backgrounds ✓ **Correct answer**
- C. It is the oldest language in Pakistan
- D. The British introduced it

A. Most Pakistanis speak Punjabi, Pashto, Sindhi or other languages at home; Urdu is the lingua franca.

B. Urdu is the national language because it connects people from different linguistic backgrounds across Pakistan.

C. Urdu is not the oldest language of Pakistan.

D. The British did not introduce Urdu as Pakistan's national language.

Question 68 Pakistan Studies

The function of the Senate in Pakistan’s political system is to:

- A. Make laws and represent provinces ✓ **Correct answer**
- B. Control religious affairs
- C. Hold military authority
- D. Regulate local government

A. The Senate makes laws and represents the provinces (equal representation for each province).

B. The Senate does not control religious affairs.

e holds no military authority.

D. The Senate does not regulate local government.

Question 69 General Knowledge

The world’s largest Muslim country by area is:

- A. Uzbekistan
- B. Saudi Arabia
- C. Kazakhstan ✓ **Correct answer**
- D. Indonesia

A. Uzbekistan is smaller than Kazakhstan.

B. Saudi Arabia is smaller than Kazakhstan.

C. Kazakhstan is the world's largest Muslim-majority country by area (2.7 million km^2).

D. Indonesia is the largest Muslim country by population, not by area.

Question 70 General Knowledge

The current President of America is:

- A. Donald Trump ✓ **Correct answer**
- B. Kamala Harris
- C. Joe Biden
- D. Barack Obama

A. Donald Trump is the President of the United States (second term from 20 January 2025).

B. Kamala Harris was Vice President, not President.

C. Joe Biden was President until 20 January 2025, not the current one.

D. Barack Obama was President 2009–2017, not the current one.

71 General Knowledge

Name the empire ruled by Genghis Khan:

- A. Russian Empire
- B. Mongol Empire ✓ **Correct answer**
- C. Ottoman Empire
- D. British Empire

A. Genghis Khan did not rule the Russian Empire.

B. Genghis Khan founded and ruled the Mongol Empire.

C. Genghis Khan did not rule the Ottoman Empire.

D. Genghis Khan did not rule the British Empire.

Question 72 General Knowledge

The most spoken language in the world is:

- A. English
- B. Spanish
- C. Mandarin Chinese ✓ **Correct answer**
- D. Hindi

A. English has the most total speakers, but Mandarin has the most native speakers.

B. Spanish has fewer native speakers than Mandarin.

C. Mandarin Chinese has the most native speakers in the world.

D. Hindi has fewer native speakers than Mandarin.

Question 73 Geography

The main reasons for the formation of deserts are:

- B. High humidity
- C. High rainfall
- D. Lack of rainfall ✓ **Correct answer**

A. High mountains alone do not form deserts.

B. High humidity is the opposite of desert conditions.

C. High rainfall prevents deserts from forming.

D. Deserts form mainly where there is very little rainfall.

Question 74 Geography

A glacier is best described as:

- A. A large body of water
- B. A slow-moving mass of ice ✓ **Correct answer**
- C. A desert area
- D. A deep forest

A. A glacier is ice, not a body of water.

B. A glacier is a slow-moving mass of ice.

C. A glacier is ice, not a desert area.

D. A glacier is ice, not a forest.

Question 75 Everyday Science

Greenhouse Effect is defined as:

- A. The trapping of heat in the Earth's atmosphere ✓ **Correct answer**
- B. The reflection of sunlight by the clouds
- C. The collection of Earth's heat in the atmosphere

formation of clouds in the atmosphere

A. The greenhouse effect is the trapping of heat in the Earth's atmosphere by greenhouse gases.

B. Reflection of sunlight by clouds is not the greenhouse effect.

C. The greenhouse effect traps heat; 'collection of Earth's heat' is not its definition.

D. Cloud formation is not the greenhouse effect.

Question 76 Everyday Science

The greenhouse gas that maintains the earth’s temperature is:

- A. Nitrogen
- B. Carbon dioxide ✓ **Correct answer**
- C. Sulphur dioxide
- D. Sulphur monoxide

A. Nitrogen is not a greenhouse gas.

B. Carbon dioxide is the main greenhouse gas that keeps the Earth warm enough for life.

C. Sulphur dioxide is a pollutant, not the main temperature-maintaining greenhouse gas.

D. Sulphur monoxide is not the greenhouse gas that maintains the Earth's temperature.

Question 77 Chemistry

A teacher asks her students to separate sand from the water. The process most suitable for the separation would be:

- A. Solution
- B. Chromatography
- C. Filtration ✓ **Correct answer**
- D. Crystallization

is not a separation process for sand and water.

B. Chromatography separates dissolved substances, not sand from water.

C. Sand does not dissolve in water, so it is separated by filtration (the sand stays on the filter paper).

D. Crystallisation separates a dissolved solid from a solution, not sand from water.

Question 78 Chemistry

The nucleus is the central part of an element that contains:

- A. Protons and neutrons ✓ **Correct answer**
- B. Electrons and protons
- C. Neutrons and electrons
- D. Radiation and energy

A. The nucleus of an atom contains protons and neutrons; electrons orbit outside it.

B. Electrons are outside the nucleus, not in it.

C. Electrons are outside the nucleus, not in it.

D. Radiation and energy are not what the nucleus contains.

Question 79 Biology

Water is essential for life as:

- A. It helps in biological processes ✓ **Correct answer**
- B. It helps plants take carbon
- C. It keeps the environment clean
- D. It dissolves all the substances

A. Water is essential because it takes part in biological processes — it is the medium of life.

e in carbon as CO_2, not through water's help in that way.

C. Keeping the environment clean is not why water is essential for life.

D. Water does not dissolve all substances — it is a good solvent, not a universal one.

Question 80 Chemistry

In a chemical reaction, the catalyst:

- A. Decreases the speed of reaction
- B. Maintains the speed
- C. Increases the speed of reaction ✓ **Correct answer**
- D. Destroys the chemical reaction

A. A catalyst increases, not decreases, the speed of reaction.

B. A catalyst changes the speed; it does not merely maintain it.

C. A catalyst speeds up a chemical reaction without being used up itself.

D. A catalyst does not destroy the reaction.

Question 81 Chemistry

When vinegar is mixed with baking soda:

- A. A physical change occurs
- B. A chemical change occurs ✓ **Correct answer**
- C. No change occurs
- D. The mixture disappears

A. New substances are formed, so it is not merely a physical change.

B. Vinegar (acetic acid) reacting with baking soda (sodium bicarbonate) forms new substances (sodium acetate, water, CO_2) — a chemical change.

does occur — fizzing and new substances.

D. The mixture does not disappear; it changes into new substances.

Question 82 Everyday Science

A testable explanation for an observation is known as:

- A. Conclusion
- B. Hypothesis ✓ **Correct answer**
- C. Law
- D. Reasoning

A. A conclusion comes after testing, not before.

B. A hypothesis is a testable explanation for an observation.

C. A law is a tested, universal statement, not a testable explanation.

D. Reasoning is thinking, not a testable explanation.

Question 83 Biology

Trypsin is a protein-digesting enzyme that cannot function in the stomach because:

- A. It digests fats
- B. It gets destroyed by the acid ✓ **Correct answer**
- C. It has a high mass concentration
- D. It is more sensitive to HCl

A. Trypsin digests proteins, not fats.

B. Trypsin works in the alkaline small intestine; the stomach's acid destroys (denatures) it, so it cannot function there.

C. Its mass concentration is not why it fails in the stomach.

to HCl is not the stated reason — the acid destroys the enzyme.

Question 84 Chemistry

All of the following are correct regarding water except:

- A. It is colorless and tasteless
- B. It has a high heat capacity
- C. It is a non-polar in nature ✓ **Correct answer**
- D. It is a polar solvent

A. Water is colourless and tasteless — that statement is correct.

B. Water does have a high heat capacity — that statement is correct.

C. Water is polar in nature (the oxygen end is slightly negative, the hydrogen ends slightly positive), so 'non-polar' is the false statement.

D. Water is a polar solvent — that statement is correct.

Question 85 Chemistry

The process used to separate different components of petroleum is:

- A. Filtration
- B. Sedimentation
- C. Distillation ✓ **Correct answer**
- D. Evaporation

A. Filtration separates solids from liquids, not petroleum fractions.

B. Sedimentation settles solids out of liquids, not petroleum fractions.

C. Petroleum is separated into fractions (petrol, diesel, kerosene) by fractional distillation, using different boiling points.

D. Evaporation alone does not separate petroleum into its components.

Tawaf-ul-Qudoom is also known as:

- A. First Tawaf ✓ **Correct answer**
- B. Second Tawaf
- C. Third Tawaf
- D. Fourth Tawaf

A. Tawaf-ul-Qudoom, the tawaf performed on arrival in Makkah, is the first tawaf.

B. It is the first tawaf, not the second.

C. It is the first tawaf, not the third.

D. It is the first tawaf, not the fourth.

Question 87 Islamiat

"No one among you can ever be a believer unless he loves me more than his parents and all other people". An important aspect of faith the above hadith signifies:

- A. Love for the Holy Prophet (PBUH) ✓ **Correct answer**
- B. Performance of Ibadat
- C. Oneness of Allah
- D. Rights of the people

A. The hadith makes love for the Holy Prophet (PBUH) — more than parents and all people — a mark of true faith.

B. The hadith is about love for the Prophet, not about the performance of Ibadat in general.

C. The hadith is about love for the Prophet, not about the Oneness of Allah.

D. The hadith is about love for the Prophet, not about the rights of people.

88 Pakistan Studies

General Pervez Musharraf overthrew the government of Nawaz Sharif on:

- A. 12th Oct 1999 ✓ **Correct answer**
- B. 8th Oct 1999
- C. 28th May 1999
- D. 27th Dec 1999

A. General Pervez Musharraf overthrew Nawaz Sharif's government on 12 October 1999.

B. 8 October 1999 is not the date of the takeover.

C. 28 May 1999 is not the date of the takeover.

D. 27 December 1999 is not the date of the takeover.

Question 89 Pakistan Studies

The total requirement of oil produced by Pakistan is:

- A. 20% ✓ **Correct answer**
- B. 30%
- C. 50%
- D. 65%

A. Pakistan produces about 20% of its oil requirement domestically (about 4.3 million tons in 2019) and imports the rest.

B. Domestic production is about 20%, not 30%.

C. Domestic production is about 20%, not 50%.

D. Domestic production is about 20%, not 65%.

90 Geography

A plateau is a flat elevated landform that rises sharply above the surrounding area on at least one side; in Pakistan, the number of Plateaus is/are:

- A. One
- B. Two ✓ **Correct answer**
- C. Three
- D. Four

A. One is the printed key and it is wrong — there are two plateaus, Potwar and Balochistan.

B. Pakistan has two plateaus: the Potwar Plateau and the Balochistan Plateau.

C. There are two plateaus, not three.

D. There are two plateaus, not four.

Note: Note: PRINTED-KEY CORRECTION — A to B (decided by the assistant under the owner's 8 Nov 2026 delegation): the printed key A (One) is wrong; Pakistan has two plateaus — the Potwar Plateau and the Balochistan Plateau (standard Pakistan geography texts).

Question 91 Computer

What is the purpose of a graphics card ?

- A. To process and display images ✓ **Correct answer**
- B. To store data
- C. To manage memory
- D. To control input/output devices

A. A graphics card (GPU) processes and displays images on the screen.

B. Storing data is the hard disk/SSD's job, not the graphics card's.

memory is the RAM/CPU's job, not the graphics card's.

D. Controlling input/output devices is the CPU/chipset's job, not the graphics card's.

Question 92 Computer

Which parts of the computer perform arithmetic calculations ?

- A. ALU ✓ **Correct answer**
- B. Monitor
- C. Register
- D. Bus

A. The Arithmetic Logic Unit (ALU) performs arithmetic calculations in the CPU.

B. A monitor displays output; it does not calculate.

C. A register stores data temporarily; it does not calculate.

D. A bus carries data; it does not calculate.

Question 93 Computer

Which of the following is the collection of related records ?

- A. Data
- B. File ✓ **Correct answer**
- C. Multiple records
- D. Table

A. Data is raw facts; a collection of related records is a file.

B. A file is a collection of related records.

C. 'Multiple records' is not the term; a collection of related records is a file.

D. A table is a collection of records in a database, but the standard definition asked here is

Question 94 Computer

What type of memory is used to boot the computer?

- A. RAM
- B. ROM ✓ **Correct answer**
- C. Hard Disk
- D. Virtual Memory

A. RAM is temporary memory; it does not hold the boot program.

B. ROM (Read-Only Memory) holds the boot instructions (BIOS/UEFI) used to start the computer.

C. The hard disk stores the operating system, but the boot program itself is in ROM.

D. Virtual memory is an extension of RAM; it is not used to boot.

Question 95 Computer

What is the purpose of a loop in programming?

- A. To repeat a set of instructions ✓ **Correct answer**
- B. To store data
- C. To debug the program
- D. To design the program

A. A loop repeats a set of instructions until a condition is met.

B. Storing data is done by variables, not by a loop.

C. Debugging finds errors; a loop repeats instructions.

D. Designing a program is done before coding; a loop repeats instructions.

96 Computer

What is the purpose of a firewall in a computer?

- A. To increase internet speed
- B. To block unauthorized access ✓ **Correct answer**
- C. To install new software
- D. To delete temporary files

A. A firewall does not increase internet speed.

B. A firewall blocks unauthorised access to a computer or network.

C. A firewall does not install software.

D. A firewall does not delete temporary files.

Question 97 Computer

If all the Network components are connected to the same cable, then the certain topology is called:

- A. Star
- B. Ring
- C. Bus ✓ **Correct answer**
- D. Mesh

A. In a star topology each device connects to a central hub, not one cable.

B. In a ring topology devices connect in a closed loop, not one shared cable.

C. When all components connect to one shared cable, the topology is a bus topology.

D. In a mesh topology every device connects to every other, not one shared cable.

98 Computer

What is a solid-state drive (SSD) advantage over a hard disk drive (HDD)?

- A. SSDs are slower than HDDs
- B. SSDs have moving parts, whereas HDDs don’t
- C. SSDs are faster and more durable than HDDs ✓ **Correct answer**
- D. SSDs cannot store data permanently

A. SSDs are faster than HDDs, not slower.

B. SSDs have no moving parts; HDDs do — the option has it backwards.

C. SSDs have no moving parts, so they are faster and more durable than HDDs.

D. SSDs do store data permanently (non-volatile storage).

Question 99 Computer

Which of the following is an example of cyberbullying?

- A. Sending threatening messages online ✓ **Correct answer**
- B. Using antivirus software
- C. Creating strong passwords
- D. Using a VPN

A. Sending threatening messages online is cyberbullying.

B. Using antivirus software protects against malware; it is not cyberbullying.

C. Creating strong passwords protects accounts; it is not cyberbullying.

D. Using a VPN protects privacy; it is not cyberbullying.

Question 100 Computer

What type of monitoring file is commonly used and accepted from Internet sites?

kies ✓ correct answer

- B. Blogs
- C. Websites
- D. Links

A. Cookies are small files from internet sites, stored on the computer to track and remember the user.

B. Blogs are online journals, not monitoring files.

C. Websites are pages, not monitoring files.

D. Links connect pages; they are not monitoring files.

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