# Inspector Customs / Intelligence Officer (BS-16) — 2015 · Solved Past Paper

**Body:** Federal Public Service Commission (FPSC) · **Post:** Inspector Customs / Intelligence Officer (BS-16) · **Year:** 2015 · **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 2015 sitting.

**Source note:** mcq-ai.com reproduction, 'FPSC Inspector Customs / Intelligence Officer 16-09-2015' (100 numbered items Q1-Q100, each with four options and a printed key; https://www.mcq-ai.com/papers/fpsc-inspector-customsintelligence-officer-16-09-2015-paper, accessed 11 Nov 2026). The page states the 100 questions on record from this sitting; none carries the site's question-bank marker. Second reproduction: doc4shares 'Solved-Paper-of-Customs-Inspector-(FBR)-Batch-3-held-on-16-09-2015-by-FPSC' (answer-only recall, 50-page Drive PDF); about 22 stems fuzzy-match the primary reproduction and every matched pair agrees on the answer. Every printed key was verified independently (own knowledge + web search for the doubtful items) under the owner's 8 Nov 2026 standard. 0 printed keys corrected, 0 PICK-ONE, 0 DEFECTIVE-excluded, 0 gaps. Options caveat: the source site states the options are written by it where the printed paper does not survive.

## Question 1 English

What is the meaning of the word "urbane"?

- A. Living in a city

rteous and refined in manner ✓ **Correct answer**

- C. Shy and easily embarrassed
- D. Rich and extravagant

**A.** "Urban" means of a city; "urbane" is a different word.

**B.** Urbane means courteous, refined and elegant in manner.

**C.** That is bashful, not urbane.

**D.** Urbane says nothing about wealth or extravagance.

## Question 2 English

What is the meaning of "feckless", as in "a feckless teammate"?

- A. Lacking energy, purpose or responsibility ✓ **Correct answer**
- B. Brave and daring
- C. Honest and sincere
- D. Careful and precise

**A.** Feckless means lacking initiative, purpose or responsibility.

**B.** That is fearless, the opposite of feckless.

**C.** Feckless says nothing about honesty.

**D.** That is meticulous, the opposite of feckless.

## Question 3 English

What is the meaning of "maladroit", as in "a maladroit juggler"?

- A. Highly skilful
- B. Cheerful and entertaining
- C. Clumsy or awkward ✓ **Correct answer**
- D. Dishonest

roit, the opposite of maladroit.

**B.** Maladroit says nothing about cheerfulness.

**C.** Maladroit means clumsy or awkward, especially with the hands.

**D.** Maladroit says nothing about dishonesty.

## Question 4 English

The word "bourgeois", as in "a bourgeois family", means:

- A. Aristocratic
- B. Belonging to the working class
- C. Living in the countryside
- D. Belonging to the middle class ✓ **Correct answer**

**A.** Aristocratic means of the nobility, not the middle class.

**B.** The working class is the proletariat, not the bourgeoisie.

**C.** Bourgeois says nothing about the countryside.

**D.** Bourgeois means belonging to the middle class, especially in the Marxist sense of the class that owns property and capital.

## Question 5 English

What is the meaning of "reprobate"?

- A. A person who has repented
- B. A skilled craftsman
- C. A person of bad character and habits ✓ **Correct answer**
- D. A strict religious teacher

**A.** A reprobate is unrepentant, the opposite of this.

te is a person of bad character, not a craftsman.

**C.** A reprobate is a person of thoroughly bad character and habits, an unprincipled scoundrel.

**D.** A reprobate is not a teacher of any kind.

## Question 6 English

What is the meaning of "shrewd"?

- A. Foolish
- B. Clever and sharp in judgement ✓ **Correct answer**
- C. Rude
- D. Timid

**A.** Foolish is the opposite of shrewd.

**B.** Shrewd means clever and sharp in practical judgement, especially in business.

**C.** Rude means impolite, not shrewd.

**D.** Timid means fearful, not shrewd.

## Question 7 English

What is the meaning of the verb "fetter"?

- A. To set free
- B. To feed well
- C. To praise highly
- D. To restrain or chain ✓ **Correct answer**

**A.** That is the opposite of fetter.

**B.** Fetter has nothing to do with feeding.

nothing to do with praise.

**D.** To fetter is to chain or shackle, literally or figuratively, so to restrain or chain is the meaning.

## Question 8 English

The noise from the lawn mowers _____ louder as the morning progresses.

- A. get
- B. have gotten
- C. are getting
- D. gets ✓ **Correct answer**

**A.** "The noise ... get" is wrong: the subject "noise" is singular and needs a singular verb.

**B.** "Have gotten" is plural and does not agree with the singular subject "noise".

**C.** "Are getting" is plural and does not agree with the singular subject "noise".

**D.** "The noise ... gets louder" is correct: the singular subject takes the singular verb "gets".

## Question 9 English

The woman who confronted the owner of the unleashed dog _____ angry.

- A. were
- B. are
- C. was ✓ **Correct answer**
- D. have been

**A.** "Were" is plural and does not agree with the singular subject "the woman".

**B.** "Are" is plural and present tense, but the sentence is past tense and singular.

**C.** "The woman ... was angry" is correct: singular subject, past tense.

en" is plural and does not agree with the singular subject.

## Question 10 English

He is planning to read this book before summer _____.

- A. will end
- B. ends ✓ **Correct answer**
- C. ended
- D. ending

**A.** After "before" with a time clause, English uses the present simple for a future event, not "will".

**B.** "Before summer ends" is the correct time-clause form.

**C.** "Ended" is past tense, but summer has not ended yet.

**D.** "Ending" leaves the clause without a finite verb.

## Question 11 English

We have _____ more sweets since that wonderful bakery opened down the block.

- A. ate
- B. been eating ✓ **Correct answer**
- C. been eat
- D. eat

**A.** "We have ate" is ungrammatical; the past participle of eat is "eaten", and the sense here is ongoing.

**B.** "We have been eating more sweets" is the present perfect continuous, correct for an action continuing since the bakery opened.

**C.** "Been eat" is ungrammatical; the -ing form is needed after "been".

eat" is ungrammatical.

## Question 12 English

Last week, Tracy and Shane were honoured at a luncheon for their part in rescuing a child who _____ into an icy pond.

- A. falls
- B. would fall
- C. has fallen
- D. had fallen ✓ **Correct answer**

**A.** "Falls" is present tense, but the rescue happened last week.

**B.** "Would fall" is conditional, not what happened.

**C.** "Has fallen" is present perfect, but the event is firmly in the past (last week).

**D.** "Had fallen" is the past perfect, correct for the earlier event (the child falling) before the later past event (the rescue).

## Question 13 English

The boy _____ the bat and ran to first base as fast as he could.

- A. swings
- B. swinged
- C. swung ✓ **Correct answer**
- D. swing

**A.** "Swings" is present tense, but the sentence is past tense ("ran").

**B.** "Swinged" is not a word; the past tense of swing is swung.

**C.** "The boy swung the bat and ran" is correct past tense.

**D.** "Swing" is the base form, not past tense.

## 14 English

_____ the police immediately.

- A. Called
- B. Call ✓ **Correct answer**
- C. Been calling
- D. To call

**A.** "Called the police" is a past-tense statement, not a command.

**B.** "Call the police immediately" is the imperative (command) form the sentence needs.

**C.** "Been calling" is not a command form.

**D.** "To call" is an infinitive, not a command.

## Question 15 English

On March 15, 2006, the Maywood Recreation Department requested a grant from the state to rebuild the community centre that _____ in the recent fire.

- A. destroys
- B. will be destroyed
- C. is being destroyed
- D. had been destroyed ✓ **Correct answer**

**A.** "Destroys" is present tense and active, but the centre was destroyed before the request.

**B.** The fire had already happened, so a future form is wrong.

**C.** The fire was over by March 2006, so a present continuous form is wrong.

**D.** "Had been destroyed" is the past perfect passive, correct for the earlier event (the fire) before the later past event (the grant request).

## Question 16 English

While attempting to _____ his broken bicycle, Leo Donner realised that he did not have the proper tools.

- A. repair ✓ **Correct answer**
- B. be repairing
- C. repaired
- D. have repaired

**A.** "Attempting to repair" is the correct infinitive after "attempting to".

**B.** "Attempting to be repairing" is ungrammatical.

**C.** "Attempting to repaired" is ungrammatical.

**D.** "Attempting to have repaired" is ungrammatical in this sentence.

## Question 17 English

There _____ four excellent restaurants in the centre of town.

- A. is
- B. are ✓ **Correct answer**
- C. was
- D. being

**A.** "Is" is singular, but the subject "four restaurants" is plural.

**B.** "There are four excellent restaurants" is correct: plural subject, present tense.

**C.** "Was" is singular and past tense, but the sentence is present and plural.

**D.** "Being" is not a finite verb and cannot stand alone here.

## 18 Mathematics

J is 6 years older than his wife, and his wife is four times as old as their son. Two years ago the son was 3 years old. What is J's present age?

- A. 18 years
- B. 22 years
- C. 28 years
- D. 26 years ✓ **Correct answer**

**A.** 18 would make J younger than his wife, which contradicts the stem.

**B.** 22 is the wife's age minus 4, not J's age.

**C.** 28 would need the wife to be 22, but the wife is 20.

**D.** Worked: the son was 3 two years ago, so he is 5 now; the wife is four times the son's age, so she is 20; J is 6 years older than his wife, so he is 26.

## Question 19 Mathematics

What is 25% of 13 hours?

- A. 3 hours 25 minutes
- B. 3 hours 15 minutes ✓ **Correct answer**
- C. 3 hours 30 minutes
- D. 3 hours 5 minutes

**A.** 3 hours 25 minutes is 25% of 13 hours 40 minutes, not of 13 hours.

**B.** Worked: 25% of 13 hours is 3.25 hours, and 0.25 of an hour is 15 minutes, so 3 hours 15 minutes.

**C.** That is 25% of 14 hours, not 13.

**D.** That is about 23.7% of 13 hours, not 25%.

## 20 Mathematics

A stock of rations lasts 12 men for 6 days. For how many days will the same stock last 8 men?

- A. 4 days
- B. 8 days
- C. 9 days ✓ **Correct answer**
- D. 10 days

**A.** Fewer men make the stock last longer, not shorter.

**B.** 8 days would need 9 men, not 8.

**C.** Worked: the stock is 12 × 6 = 72 man-days; for 8 men it lasts 72 ÷ 8 = 9 days.

**D.** 10 days would need 7.2 men, not 8.

## Question 21 Mathematics

Which is greater, 2 or 5/3, and by how much?

- A. 2, by 1/3 ✓ **Correct answer**
- B. 5/3, by 1/3
- C. 2, by 2/3
- D. 5/3, by 2/3

**A.** Worked: 2 = 6/3, and 6/3 − 5/3 = 1/3, so 2 is greater by 1/3.

**B.** 5/3 (about 1.67) is less than 2, not greater.

**C.** 2 is greater, but only by 1/3, not 2/3.

**D.** 5/3 is the smaller number, and the difference is 1/3, not 2/3.

## 22 Mathematics

A's weight equals three-fifths of his own weight plus 16. What is A's weight?

- A. 32
- B. 48
- C. 40 ✓ **Correct answer**
- D. 56

**A.** Three-fifths of 32 is 19.2, and 19.2 + 16 is 35.2, not 32.

**B.** Three-fifths of 48 is 28.8, and 28.8 + 16 is 44.8, not 48.

**C.** Worked: let the weight be w; w = (3/5)w + 16, so (2/5)w = 16 and w = 40.

**D.** Three-fifths of 56 is 33.6, and 33.6 + 16 is 49.6, not 56.

## Question 23 Mathematics

Find the missing number: 71 - 2 = 68, 58 - 4 = 46, 99 - 5 = 85, 84 - 3 = ?

- A. 81
- B. 77 ✓ **Correct answer**
- C. 79
- D. 78

**A.** 81 would follow a plain subtraction (84 − 3 = 81), but the pattern in the given lines is different.

**B.** Worked: in each line the result is the first number minus the second number minus the units digit of the first number: 71 − 2 − 1 = 68; 58 − 4 − 8 = 46; 99 − 5 − 9 = 85; so 84 − 3 − 4 = 77.

**C.** 79 fits no pattern in the given lines.

**D.** 78 fits no pattern in the given lines.

## 24 Current Affairs

Chinese President Xi Jinping arrived in Pakistan on his first state visit to the country on:

- A. 23 March 2015
- B. 14 August 2015
- C. 20 April 2015 ✓ **Correct answer**
- D. 5 July 2015

**A.** 23 March 2015 was Pakistan Day; Xi Jinping did not arrive then.

**B.** 14 August 2015 was Pakistan's Independence Day; Xi Jinping did not arrive then.

**C.** Xi Jinping arrived in Islamabad on 20 April 2015 for his first state visit to Pakistan, when the CPEC agreements were signed.

**D.** Xi Jinping did not visit Pakistan in July 2015.

## Question 25 Current Affairs

How many JF-17 Thunder fighter jets escorted Chinese President Xi Jinping's aircraft when it entered Pakistani airspace in April 2015?

- A. 4
- B. 6
- C. 10
- D. 8 ✓ **Correct answer**

**A.** Four jets did not escort Xi's aircraft; the escort was larger.

**B.** Six jets did not escort Xi's aircraft; the escort was larger.

**C.** Ten jets did not escort Xi's aircraft; the escort was smaller.

**D.** Eight JF-17 Thunder jets of the Pakistan Air Force escorted Xi Jinping's aircraft when it entered Pakistani airspace in April 2015.

## 26 Current Affairs

Turkish Prime Minister Ahmet Davutoglu arrived in Pakistan on a two-day official visit on:

- A. 17 February 2015 ✓ **Correct answer**
- B. 20 April 2015
- C. 6 January 2015
- D. 4 June 2015

**A.** Ahmet Davutoglu arrived in Islamabad on 17 February 2015 for a two-day official visit.

**B.** 20 April 2015 was the day Xi Jinping arrived, not Davutoglu.

**C.** 6 January 2015 was the day the 21st Amendment was passed, not Davutoglu's visit.

**D.** 4 June 2015 was the Metro Bus inauguration, not Davutoglu's visit.

## Question 27 Current Affairs

Prime Minister Nawaz Sharif inaugurated the Rawalpindi-Islamabad Metro Bus Service on:

- A. 10 February 2013
- B. 4 June 2015 ✓ **Correct answer**
- C. 14 August 2015
- D. 23 March 2015

**A.** The Metro Bus project had not been built in 2013.

**B.** Nawaz Sharif inaugurated the Rawalpindi-Islamabad Metro Bus Service on 4 June 2015.

**C.** 14 August 2015 was Independence Day, not the Metro Bus inauguration.

**D.** 23 March 2015 was Pakistan Day, not the Metro Bus inauguration.

## 28 Current Affairs

What is the approximate length of the Rawalpindi-Islamabad Metro Bus route?

- A. 27 km
- B. 18 km
- C. 22.5 km ✓ **Correct answer**
- D. 31 km

**A.** The Metro Bus route is shorter than 27 km.

**B.** The Metro Bus route is longer than 18 km.

**C.** The Rawalpindi-Islamabad Metro Bus route is about 22.5 km long.

**D.** The Metro Bus route is shorter than 31 km.

## Question 29 Current Affairs

On which date did the National Assembly of Pakistan pass the 21st Constitutional Amendment, which allowed military courts to try terrorism cases?

- A. 16 December 2014
- B. 6 January 2015 ✓ **Correct answer**
- C. 23 March 2015
- D. 3 February 2015

**A.** 16 December 2014 was the Army Public School attack in Peshawar, which led to the amendment, not the day it was passed.

**B.** The National Assembly passed the 21st Amendment on 6 January 2015 (the Senate passed it the next day).

**C.** 23 March 2015 was Pakistan Day, not the amendment's passage.

**D.** The amendment had already been passed a month earlier.

## 30 Current Affairs

Operation Zarb-e-Azb was launched in North Waziristan on:

- A. 8 June 2014
- B. 16 December 2014
- C. 6 January 2015
- D. 15 June 2014 ✓ **Correct answer**

**A.** 8 June 2014 was the attack on Jinnah International Airport, Karachi, which preceded the operation, not its launch.

**B.** 16 December 2014 was the Army Public School attack, not the launch of Zarb-e-Azb.

**C.** 6 January 2015 was the 21st Amendment, not the launch of Zarb-e-Azb.

**D.** Operation Zarb-e-Azb was launched in North Waziristan on 15 June 2014.

## Question 31 Current Affairs

General Raheel Sharif, Chief of Army Staff from 2013 to 2016, was commissioned into which regiment?

- A. Frontier Force Regiment ✓ **Correct answer**
- B. Punjab Regiment
- C. Baloch Regiment
- D. Sindh Regiment

**A.** Raheel Sharif was commissioned into the 6th Battalion of the Frontier Force Regiment in 1976.

**B.** Raheel Sharif was not commissioned into the Punjab Regiment.

**C.** Raheel Sharif was not commissioned into the Baloch Regiment.

**D.** Raheel Sharif was not commissioned into the Sindh Regiment.

## 32 Current Affairs

In 2015, two retired army generals were punished after an inquiry into which financial scandal?

- A. Rental power case
- B. Hajj corruption case
- C. NLC scam ✓ **Correct answer**
- D. NICL scam

**A.** The rental power case concerned civilian officials and power producers, not two retired generals.

**B.** The Hajj corruption case concerned civilian officials, not two retired generals.

**C.** In 2015 the Army punished two retired generals (Lt Gen Muhammad Afzal Muzaffar and Lt Gen Khalid Zaheer Akhtar) after an inquiry into the National Logistics Cell (NLC) scam.

**D.** The NICL scam concerned the National Insurance Company, not two retired generals.

## Question 33 Current Affairs

On which date in 2015 did the National Assembly dispose of the motions seeking to de-seat PTI members, allowing them to keep their seats?

- A. 6 January 2015
- B. 4 June 2015
- C. 6 August 2015 ✓ **Correct answer**
- D. 14 August 2015

**A.** 6 January 2015 was the 21st Amendment, not the de-seating motions.

**B.** 4 June 2015 was the Metro Bus inauguration, not the de-seating motions.

**C.** The National Assembly disposed of the motions seeking to de-seat PTI members on 6 August 2015, so they kept their seats.

: 2015 was Independence Day, not the de-seating motions.

## Question 34 Current Affairs

Who became the leader of the Afghan Taliban in 2015 after the death of Mullah Muhammad Omar was announced?

- A. Mullah Haibatullah Akhundzada
- B. Mullah Fazlullah
- C. Sirajuddin Haqqani
- D. Mullah Akhtar Mohammad Mansour ✓ **Correct answer**

**A.** Haibatullah became Taliban leader in 2016, after Mansour was killed, not in 2015.

**B.** Fazlullah led the Pakistani Taliban (TTP), not the Afghan Taliban.

**C.** Sirajuddin Haqqani became a deputy leader in 2015, not the leader.

**D.** After Mullah Omar's death was announced in July 2015, Mullah Akhtar Mansour was chosen as the new leader of the Afghan Taliban.

## Question 35 Current Affairs

At its launch in April 2015, the total investment announced for the China-Pakistan Economic Corridor was about:

- A. 28 billion US dollars
- B. 62 billion US dollars
- C. 51 billion US dollars
- D. 46 billion US dollars ✓ **Correct answer**

**A.** $28 billion is below the figure announced in April 2015.

**B.** $62 billion is the figure CPEC later grew to, not the April 2015 announcement.

**C.** $51 billion was not the figure announced in April 2015.

nts worth about $46 billion were announced during Xi Jinping's April 2015 visit, when CPEC was launched.

## Question 36 Pakistan Studies

Tarbela Dam is located in which district?

- A. Mirpur
- B. Mianwali
- C. Haripur ✓ **Correct answer**
- D. Dera Ismail Khan

**A.** Mirpur is in Azad Kashmir and is the site of the Mangla Dam, not Tarbela.

**B.** Mianwali is on the Indus further south and is not the site of Tarbela.

**C.** Tarbela Dam is in Haripur district, Khyber Pakhtunkhwa.

**D.** Dera Ismail Khan is further south on the Indus and is not the site of Tarbela.

## Question 37 Pakistan Studies

Pakistan's first constitution was enforced in:

- A. 1962
- B. 1973
- C. 1956 ✓ **Correct answer**
- D. 1949

**A.** 1962 was Pakistan's second constitution.

**B.** 1973 was Pakistan's third (and current) constitution.

**C.** Pakistan's first constitution was enforced on 23 March 1956.

**D.** 1949 was the Objectives Resolution, not a constitution.

## 38 Pakistan Studies

Natural gas was discovered at Sui in Balochistan in:

- A. 1947
- B. 1955
- C. 1964
- D. 1952 ✓ **Correct answer**

**A.** No gas was discovered at Sui in 1947.

**B.** Gas production at Sui began in 1955, but the discovery was in 1952.

**C.** No gas was discovered at Sui in 1964.

**D.** Natural gas was discovered at Sui in 1952.

## Question 39 Pakistan Studies

The English East India Company was founded during the reign of which Mughal emperor?

- A. Jahangir
- B. Shah Jahan
- C. Humayun
- D. Akbar ✓ **Correct answer**

**A.** Jahangir reigned from 1605; the Company was chartered in 1600, before his reign.

**B.** Shah Jahan reigned from 1628, long after the Company's founding.

**C.** Humayun died in 1556, decades before the Company's founding.

**D.** The English East India Company received its royal charter on 31 December 1600, during the reign of the Mughal emperor Akbar (1556–1605).

## 40 Science

A person suffering from short-sightedness (myopia) has difficulty in:

- A. Seeing nearby objects clearly
- B. Distinguishing colours
- C. Seeing in bright light
- D. Seeing distant objects clearly ✓ **Correct answer**

**A.** Difficulty seeing nearby objects is long-sightedness (hypermetropia), not myopia.

**B.** Difficulty distinguishing colours is colour blindness, not myopia.

**C.** Difficulty in bright light is photophobia, not myopia.

**D.** A short-sighted (myopic) person can see nearby objects clearly but cannot see distant objects clearly.

## Question 41 Science

The Big Bang theory of the origin of the universe was first proposed by:

- A. Georges Lemaitre ✓ **Correct answer**
- B. Isaac Newton
- C. Galileo Galilei
- D. Johannes Kepler

**A.** The Belgian priest and physicist Georges Lemaître first proposed the Big Bang (the "primeval atom") in 1927.

**B.** Newton proposed the laws of motion and gravitation, not the Big Bang.

**C.** Galileo supported heliocentrism and improved the telescope, but did not propose the Big Bang.

**D.** Kepler discovered the laws of planetary motion, not the Big Bang.

## 42 Science

The minimum speed an object needs to break free of Earth's gravitational pull is called:

- A. Orbital velocity
- B. Escape velocity ✓ **Correct answer**
- C. Terminal velocity
- D. Angular velocity

**A.** Orbital velocity is the speed needed to stay in orbit around the Earth, not to escape it.

**B.** Escape velocity (about 11.2 km/s for Earth) is the minimum speed needed to break free of Earth's gravity.

**C.** Terminal velocity is the maximum speed a falling object reaches when air resistance balances gravity.

**D.** Angular velocity is the rate of rotation, not an escape speed.

## Question 43 Science

The density of water is approximately:

- A. 0.1 g/cm3
- B. 1 kg/cm3
- C. 10 g/cm3
- D. 1 g/cm3 ✓ **Correct answer**

**A.** Water is ten times denser than 0.1 g/cm$^3$.

**B.** 1 kg/cm$^3$ is a thousand times denser than water.

**C.** Water is ten times less dense than 10 g/cm$^3$.

**D.** The density of water is 1 gram per cubic centimetre (1,000 kg/m$^3$).

## 44 Science

The instrument used to detect and record earthquakes is the:

- A. Barometer
- B. Hygrometer
- C. Seismograph ✓ **Correct answer**
- D. Anemometer

**A.** A barometer measures air pressure.

**B.** A hygrometer measures humidity.

**C.** A seismograph detects and records the vibrations of earthquakes.

**D.** An anemometer measures wind speed.

## Question 45 Science

Which part of the skeleton protects the brain?

- A. Rib cage
- B. Vertebral column
- C. Pelvis
- D. Skull ✓ **Correct answer**

**A.** The rib cage protects the heart and lungs, not the brain.

**B.** The vertebral column protects the spinal cord, not the brain.

**C.** The pelvis protects the lower abdominal organs, not the brain.

**D.** The skull (cranium) is the bony case that protects the brain.

## Question 46 Science

Botany is the scientific study of:

nts ✓ **Correct answer**

- B. Animals
- C. Insects
- D. Rocks

**A.** Botany is the branch of biology that studies plants.

**B.** The study of animals is zoology.

**C.** The study of insects is entomology.

**D.** The study of rocks is geology (petrology).

## Question 47 Science

"To every action there is an equal and opposite reaction" is:

- A. Newton's first law of motion
- B. Newton's second law of motion
- C. Newton's third law of motion ✓ **Correct answer**
- D. Newton's law of gravitation

**A.** The first law is the law of inertia: a body stays at rest or in uniform motion unless acted on by a force.

**B.** The second law relates force, mass and acceleration (F = ma).

**C.** The third law states that to every action there is an equal and opposite reaction.

**D.** The law of gravitation describes the attraction between masses, not action and reaction.

## Question 48 Science

The Wright brothers are credited with inventing the:

- A. Telephone

- C. Motor car
- D. Aeroplane ✓ **Correct answer**

**A.** The telephone is credited to Alexander Graham Bell.

**B.** The steam engine was developed by Newcomen and Watt.

**C.** The motor car is credited to Karl Benz and others.

**D.** The Wright brothers made the first sustained powered flight in 1903 and are credited with inventing the aeroplane.

## Question 49 Islamic Studies

The fort of Qamus at Khaybar was conquered by:

- A. Hazrat Abu Bakr (RA)
- B. Hazrat Umar (RA)
- C. Hazrat Ali (RA) ✓ **Correct answer**
- D. Hazrat Khalid bin Walid (RA)

**A.** Abu Bakr led an earlier unsuccessful attempt at Khaybar, but did not conquer Qamus.

**B.** Umar also led an attempt at Khaybar, but did not conquer Qamus.

**C.** Hazrat Ali (RA) conquered the fort of Qamus at Khaybar, defeating its chief Marhab.

**D.** Khalid bin Walid was not the conqueror of Qamus.

## Question 50 Islamic Studies

At what age did the Holy Prophet (PBUH) receive the first revelation?

- A. 35 years
- B. 25 years
- C. 53 years

years ✓ **Correct answer**

**A.** The Prophet (PBUH) was not 35 at the first revelation.

**B.** The Prophet (PBUH) married Hazrat Khadijah (RA) at about 25, but the first revelation came later.

**C.** The Prophet (PBUH) migrated to Madinah at about 53, but the first revelation came earlier.

**D.** The Holy Prophet (PBUH) received the first revelation in the Cave of Hira at the age of 40.

## Question 51 Islamic Studies

Which Jewish tribe was expelled from Madinah and settled mostly in Khaybar?

- A. Banu Qainuqa
- B. Banu Nadir ✓ **Correct answer**
- C. Banu Qurayzah
- D. Banu Bakr

**A.** Banu Qainuqa were expelled from Madinah in 624 CE, but they went mainly to Syria, not Khaybar.

**B.** Banu Nadir were expelled from Madinah in 625 CE and settled mostly in Khaybar.

**C.** Banu Qurayzah were not expelled; they were dealt with after the Battle of the Trench in 627 CE.

**D.** Banu Bakr were an Arab tribe, not a Jewish tribe of Madinah.

## Question 52 Islamic Studies

When did Hazrat Abdullah, the father of the Holy Prophet (PBUH), pass away?

- A. When the Prophet was six years old

- C. Before the Prophet's birth ✓ **Correct answer**
- D. When the Prophet was two years old

**A.** The Prophet's mother, Hazrat Amina, died when he was six, not his father.

**B.** The Prophet's grandfather, Abdul Muttalib, died when he was eight, not his father.

**C.** Hazrat Abdullah died during a trading journey before the Prophet (PBUH) was born.

**D.** Hazrat Abdullah had already died before the Prophet's birth.

## Question 53 Islamic Studies

According to a well-known narration, how many prophets did Allah send to mankind?

- A. 25
- B. 124,000 ✓ **Correct answer**
- C. 12,000
- D. 100,000

**A.** Twenty-five prophets are named in the Holy Quran, but the narration gives a much larger total.

**B.** A well-known narration (hadith) gives the number of prophets as 124,000, of whom 313 were messengers.

**C.** No narration gives 12,000 prophets.

**D.** No narration gives 100,000 prophets.

## Question 54 General Knowledge

In mobile phones, SIM stands for:

- A. System Information Module
- B. Subscriber Internet Mode

- D. Subscriber Identity Module ✓ **Correct answer**

**A.** There is no such expansion of SIM.

**B.** There is no such expansion of SIM.

**C.** There is no such expansion of SIM.

**D.** SIM stands for Subscriber Identity Module, the chip that identifies a mobile subscriber.

## Question 55 General Knowledge

Where is the headquarters of the South Asian Association for Regional Cooperation (SAARC) located?

- A. Dhaka
- B. Kathmandu ✓ **Correct answer**
- C. Islamabad
- D. Colombo

**A.** Dhaka was where SAARC was founded in 1985, but its secretariat is not there.

**B.** The SAARC Secretariat is in Kathmandu, Nepal.

**C.** Islamabad is not the seat of the SAARC Secretariat.

**D.** Colombo is not the seat of the SAARC Secretariat.

## Question 56 Islamic Studies

During whose caliphate was the Holy Quran first compiled into a single book form?

- A. Hazrat Umar (RA)
- B. Hazrat Usman (RA)
- C. Hazrat Ali (RA)
- D. Hazrat Abu Bakr (RA) ✓ **Correct answer**

ised the compilation, but it was carried out under Abu Bakr.

**B.** Usman produced the standardised copies (the Uthmanic codex), but the first compilation was earlier.

**C.** Ali was not the caliph at the time of the first compilation.

**D.** After the Battle of Yamama, Abu Bakr ordered Zaid bin Thabit to compile the Quran into a single book.

## Question 57 Islamic Studies

What was the real name of Imam Bukhari?

- A. Muhammad bin Ismail ✓ **Correct answer**
- B. Muhammad bin Isa
- C. Sulaiman bin Ash'ath
- D. Ahmad bin Shu'aib

**A.** Imam Bukhari's full name is Muhammad ibn Ismail al-Bukhari.

**B.** Muhammad bin Isa is Imam Tirmidhi, not Bukhari.

**C.** Sulaiman bin Ash'ath is Imam Abu Dawud, not Bukhari.

**D.** Ahmad bin Shu'aib is Imam Nasai, not Bukhari.

## Question 58 Islamic Studies

Reciting which surah is equal in reward to one-third of the Holy Quran?

- A. Surah Ya-Sin
- B. Surah Al-Fatiha
- C. Surah Al-Kafirun
- D. Surah Al-Ikhlas ✓ **Correct answer**

**A.** Surah Ya-Sin is called the heart of the Quran, but the one-third narration is about Al-

**B.** Surah Al-Fatiha is the opening chapter, but the one-third narration is about Al-Ikhlas.

**C.** Surah Al-Kafirun is said to equal a quarter of the Quran, not a third.

**D.** The Prophet (PBUH) said that Surah Al-Ikhlas is equal to one-third of the Quran in reward.

## Question 59 Islamic Studies

How many surahs of the Holy Quran are Makki?

- A. 76
- B. 86 ✓ **Correct answer**
- C. 28
- D. 90

**A.** 76 is not the standard count of Makki surahs.

**B.** Of the 114 surahs, 86 are Makki (revealed in Makkah) and 28 are Madani.

**C.** 28 is the number of Madani surahs, not Makki.

**D.** 90 is not the standard count of Makki surahs.

## Question 60 History

The Third Battle of Panipat was fought in:

- A. 1761 ✓ **Correct answer**
- B. 1526
- C. 1556
- D. 1739

**A.** The Third Battle of Panipat was fought on 14 January 1761 between Ahmad Shah Durrani and the Marathas.

the First Battle of Panipat (Babur vs Ibrahim Lodi).

**C.** 1556 was the Second Battle of Panipat (Akbar vs Hemu).

**D.** 1739 was Nadir Shah's invasion and the sack of Delhi, not a Battle of Panipat.

## Question 61 History

The Battle of Plassey (1757) was fought between the East India Company and:

- A. Tipu Sultan
- B. Mir Qasim
- C. Siraj-ud-Daulah ✓ **Correct answer**
- D. Hyder Ali

**A.** Tipu Sultan fought the British in the Anglo-Mysore Wars, not at Plassey.

**B.** Mir Qasim fought the British at Buxar (1764), not at Plassey.

**C.** The Battle of Plassey (23 June 1757) was fought between the East India Company under Robert Clive and the Nawab of Bengal, Siraj-ud-Daulah.

**D.** Hyder Ali fought the British in Mysore, not at Plassey.

## Question 62 History

Which three leaders are regarded as the principal founders of the Non-Aligned Movement?

- A. Nehru, Bhutto and Zhou Enlai
- B. Nehru, Nasser and Tito ✓ **Correct answer**
- C. Mao Zedong, Ho Chi Minh and Castro
- D. Nasser, Ayub Khan and Tito

**A.** Bhutto and Zhou Enlai were not founders of the Non-Aligned Movement.

**B.** Jawaharlal Nehru (India), Gamal Abdel Nasser (Egypt) and Josip Broz Tito (Yugoslavia) chair Gamal Abdel Nasser (Egypt) and Josip

e principal founders of the Non-Aligned Movement (Belgrade, 1961).

**C.** None of these three was a principal founder of the movement.

**D.** Ayub Khan was not a founder of the movement.

## Question 63 Science

The normal temperature of the human body on the Fahrenheit scale is:

- A. 100.4 °F
- B. 96.8 °F
- C. 98.6 °F ✓ **Correct answer**
- D. 102.2 °F

**A.** 100.4 °F is a fever, not the normal temperature.

**B.** 96.8 °F is below the normal body temperature.

**C.** The normal human body temperature is 98.6 °F (37 °C).

**D.** 102.2 °F is a high fever, not the normal temperature.

## Question 64 Science

The normal resting heart rate of an adult human is about:

- A. 72 beats per minute ✓ **Correct answer**
- B. 40 beats per minute
- C. 120 beats per minute
- D. 150 beats per minute

**A.** The normal resting heart rate of an adult is about 60–100 beats per minute, with 72 the standard textbook figure.

**B.** 40 beats per minute is well below normal for a resting adult (it can occur in trained athletes).

per minute is a rapid heart rate (tachycardia), not normal at rest.

**D.** 150 beats per minute is far above a normal resting rate.

## Question 65 General Knowledge

The Asian Development Bank was established in:

- A. 1966 ✓ **Correct answer**
- B. 1945
- C. 1961
- D. 1971

**A.** The Asian Development Bank was established in 1966 and began operations in Manila.

**B.** 1945 was the founding of the United Nations and the World Bank, not the ADB.

**C.** The ADB was not established in 1961.

**D.** The ADB was already five years old in 1971.

## Question 66 Science

The three primary colours used in a colour television are:

- A. Red, yellow and blue
- B. Cyan, magenta and yellow
- C. Red, green and blue ✓ **Correct answer**
- D. Red, green and yellow

**A.** Red, yellow and blue are the primary colours of paint (pigment), not of television.

**B.** Cyan, magenta and yellow are the subtractive primaries used in printing, not television.

**C.** Colour television uses the additive primaries red, green and blue (RGB).

**D.** Yellow is not one of the television primaries.

# 67 Pakistan Studies

Which was the first barrage constructed in present-day Pakistan?

- A. Kotri Barrage
- B. Guddu Barrage
- C. Taunsa Barrage
- D. Sukkur Barrage ✓ **Correct answer**

**A.** Kotri Barrage was completed in 1955, after Sukkur.

**B.** Guddu Barrage was completed in 1962, after Sukkur.

**C.** Taunsa Barrage was completed in 1958, after Sukkur.

**D.** Sukkur Barrage, completed in 1932, was the first barrage built in present-day Pakistan.

# Question 68 Pakistan Studies

The Diamer-Bhasha Dam is located on which river?

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

**A.** The Diamer-Bhasha Dam is not on the Jhelum.

**B.** The Diamer-Bhasha Dam is being built on the Indus river in Gilgit-Baltistan.

**C.** The Diamer-Bhasha Dam is not on the Chenab.

**D.** The Diamer-Basha Dam is not on the Kabul river.

# Question 69 Science

Boats and floating (pontoon) bridges are designed on the basis of which principle?

himedes' principle ✓ **Correct answer**

- B. Pascal's law
- C. Bernoulli's principle
- D. Boyle's law

**A.** Boats and pontoon bridges float because the upthrust on them equals the weight of the water they displace — Archimedes' principle.

**B.** Pascal's law is about pressure transmitted through a fluid, used in hydraulic systems, not in floating.

**C.** Bernoulli's principle is about pressure and speed in a moving fluid, used for aeroplane wings, not for floating.

**D.** Boyle's law relates the pressure and volume of a gas, not floating.

## Question 70 Geography

Which mountain range links Pakistan with Afghanistan in the north-west?

- A. Karakoram
- B. Himalayas
- C. Hindu Kush ✓ **Correct answer**
- D. Salt Range

**A.** The Karakoram lies in the north-east of Pakistan, along the border with China, not Afghanistan.

**B.** The Himalayas lie along Pakistan's north-eastern border with Kashmir and China, not the Afghan border.

**C.** The Hindu Kush range runs along Pakistan's north-western border with Afghanistan.

**D.** The Salt Range is in Punjab, far from the Afghan border.

## 71 Science

The sky appears blue on a clear day because of the:

- A. Reflection of light
- B. Refraction of light
- C. Absorption of light
- D. Scattering of light ✓ **Correct answer**

**A.** Reflection is light bouncing off a surface; it does not make the sky blue.

**B.** Refraction is the bending of light as it enters a new medium; it is not why the sky is blue.

**C.** Absorption removes light; it does not make the sky blue.

**D.** Sunlight is scattered by air molecules, and blue light is scattered most (Rayleigh scattering), which is why the sky looks blue.

## Question 72 Science

The idea of an expanding universe is associated mainly with which astronomer?

- A. Isaac Newton
- B. Galileo Galilei
- C. Edwin Hubble ✓ **Correct answer**
- D. Stephen Hawking

**A.** Newton described gravity, not an expanding universe.

**B.** Galileo observed the heavens, but did not discover the universe's expansion.

**C.** Edwin Hubble showed in 1929 that distant galaxies are moving away from us, the evidence for the expanding universe (Hubble's law).

**D.** Hawking worked on black holes and the Big Bang, but the expanding universe is associated with Hubble.

73 Science

Approximately how many bones does a newborn baby have?

- A. 300 ✓ **Correct answer**
- B. 206
- C. 186
- D. 120

**A.** A newborn baby has about 300 bones; many fuse together as the child grows.

**B.** 206 is the number of bones in an adult, not a newborn.

**C.** No standard count gives 186 bones for a newborn.

**D.** No standard count gives 120 bones for a newborn.

## Question 74 Science

Which substance is a bad conductor of electricity but a good conductor of heat?

- A. Mica ✓ **Correct answer**
- B. Asbestos
- C. Celluloid
- D. Rubber

**A.** Mica is an electrical insulator but conducts heat well, which is why it is used in electrical appliances.

**B.** Asbestos is a poor conductor of both heat and electricity.

**C.** Celluloid is a poor conductor of both heat and electricity.

**D.** Rubber is a poor conductor of both heat and electricity.

# 75 Science

The main stimulant present in tea is:

- A. Caffeine ✓ **Correct answer**
- B. Nicotine
- C. Quinine
- D. Morphine

**A.** Caffeine is the stimulant in tea (and coffee).

**B.** Nicotine is the stimulant in tobacco, not tea.

**C.** Quinine is a medicine for malaria, not the stimulant in tea.

**D.** Morphine is a painkiller made from opium, not the stimulant in tea.

# Question 76 Science

The main function of the ozone layer is to:

- A. Reduce global warming
- B. Remove pollutants from the air
- C. Absorb harmful ultraviolet radiation from the Sun ✓ **Correct answer**
- D. Produce oxygen for living things

**A.** The ozone layer does not reduce global warming; greenhouse gases cause it.

**B.** The ozone layer does not clean pollutants from the air.

**C.** The ozone layer in the stratosphere absorbs most of the Sun's harmful ultraviolet radiation, protecting life on Earth.

**D.** Oxygen is produced by plants through photosynthesis, not by the ozone layer.

## 77 Science

The direct conversion of a solid into a gas without passing through the liquid state is called:

- A. Sublimation ✓ **Correct answer**
- B. Evaporation
- C. Condensation
- D. Fusion

**A.** Sublimation is the direct change of a solid into a gas, e.g. dry ice or camphor.

**B.** Evaporation is the change of a liquid into a gas.

**C.** Condensation is the change of a gas into a liquid.

**D.** Fusion (melting) is the change of a solid into a liquid.

## Question 78 Mathematics

If the length of a rectangle is increased by 30% and its width by 20%, by what percentage does its area increase?

- A. 50%
- B. 44%
- C. 60%
- D. 56% ✓ **Correct answer**

**A.** Simply adding 30% and 20% gives 50%, but the two increases multiply, not add.

**B.** 44% would come from a 20% length increase and a 20% width increase, not 30% and 20%.

**C.** 60% is too high; the worked figure is 56%.

**D.** Worked: new area = 1.30 × 1.20 = 1.56 times the old area, so the increase is 56%.

## 79 Mathematics

12 men can finish a job in 6 hours. After they have worked for 1 hour, 8 more men join them. In how many more hours will the remaining work be finished?

- A. 4
- B. 3 ✓ **Correct answer**
- C. 2.5
- D. 3.5

**A.** 4 more hours with 20 men would do 80 man-hours, more than the 60 remaining.

**B.** Worked: the job is 12 × 6 = 72 man-hours; after 1 hour, 12 man-hours are done and 60 remain; with 20 men the remaining work takes 60 ÷ 20 = 3 hours.

**C.** 2.5 hours with 20 men would do 50 man-hours, less than the 60 remaining.

**D.** 3.5 hours with 20 men would do 70 man-hours, more than the 60 remaining.

## Question 80 General Knowledge

How many official languages does the United Nations have?

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

**A.** The UN has six official languages, not five.

**B.** The UN has six official languages, not four.

**C.** The UN has six official languages, not seven.

**D.** The United Nations has six official languages: Arabic, Chinese, English, French, Russian and Spanish.

## 81 History

The English East India Company was established in:

- A. 1757
- B. 1608
- C. 1612
- D. 1600 ✓ **Correct answer**

**A.** 1757 was the Battle of Plassey, not the Company's founding.

**B.** 1608 was when the Company's ships first reached Surat, not its founding.

**C.** 1612 was the Battle of Swally, not the Company's founding.

**D.** The English East India Company was established by royal charter on 31 December 1600.

## Question 82 History

In which year did Pakistan withdraw from CENTO (the Central Treaty Organization)?

- A. 1979 ✓ **Correct answer**
- B. 1971
- C. 1972
- D. 1977

**A.** Pakistan withdrew from CENTO in March 1979, after the Iranian Revolution ended the alliance.

**B.** 1971 was the year of the Bangladesh war, not Pakistan's CENTO withdrawal.

**C.** Pakistan did not withdraw from CENTO in 1972.

**D.** Pakistan did not withdraw from CENTO in 1977.

## 83 English

Choose the pair that has the same relationship as DISINGENUOUS : INGENUOUS.

- A. Honest : Truthful
- B. Deceptive : Sincere ✓ **Correct answer**
- C. Crafty : Sly
- D. Open : Frank

**A.** Honest and truthful are synonyms, but disingenuous and ingenuous are opposites.

**B.** Disingenuous (insincere) and ingenuous (innocent and sincere) are opposites, just as deceptive and sincere are opposites.

**C.** Crafty and sly are synonyms, not opposites.

**D.** Open and frank are synonyms, not opposites.

## Question 84 English

Choose the pair that has the same relationship as CREDULOUS : INCREDULOUS.

- A. Naive : Innocent
- B. Trusting : Believing
- C. Gullible : Skeptical ✓ **Correct answer**
- D. Doubtful : Suspicious

**A.** Naive and innocent are near-synonyms, but credulous and incredulous are opposites.

**B.** Trusting and believing are near-synonyms, not opposites.

**C.** Credulous (ready to believe) and incredulous (unwilling to believe) are opposites, just as gullible and skeptical are opposites.

**D.** Doubtful and suspicious are near-synonyms, not opposites.

## 85 English

Choose the pair that has the same relationship as ZENITH : NADIR.

- A. Summit : Peak
- B. Apex : Pinnacle
- C. Rise : Ascent
- D. Top : Bottom ✓ **Correct answer**

**A.** Summit and peak are synonyms, but zenith and nadir are opposites.

**B.** Apex and pinnacle are synonyms, not opposites.

**C.** Rise and ascent are synonyms, not opposites.

**D.** Zenith (highest point) and nadir (lowest point) are opposites, just as top and bottom are opposites.

## Question 86 English

Choose the word most nearly OPPOSITE in meaning to INCREDULOUS.

- A. Skeptical
- B. Credulous ✓ **Correct answer**
- C. Doubtful
- D. Suspicious

**A.** Skeptical is a synonym of incredulous, not its opposite.

**B.** Credulous means ready to believe, the direct opposite of incredulous (unwilling to believe).

**C.** Doubtful is a synonym of incredulous, not its opposite.

**D.** Suspicious is a synonym of incredulous, not its opposite.

## 87 General Knowledge

Al Gore shared the 2007 Nobel Peace Prize for his work on:

- A. Nuclear disarmament
- B. Climate change ✓ **Correct answer**
- C. Poverty alleviation
- D. Human rights

**A.** Al Gore did not win the prize for nuclear disarmament.

**B.** Al Gore shared the 2007 Nobel Peace Prize with the IPCC for their work on climate change.

**C.** Al Gore did not win the prize for poverty alleviation.

**D.** Al Gore did not win the prize for human rights.

## Question 88 Geography

Which country's map is shaped like a boot?

- A. Italy ✓ **Correct answer**
- B. Greece
- C. Chile
- D. Spain

**A.** Italy's map is famously shaped like a boot, with the toe and heel in the south.

**B.** Greece's map is not boot-shaped.

**C.** Chile's map is a long thin strip, not a boot.

**D.** Spain's map is roughly square, not boot-shaped.

# 89 Pakistan Studies

Who proposed the name 'All-India Muslim League' when the party was founded in 1906?

- A. Nawab Viqar-ul-Mulk
- B. Sir Aga Khan III
- C. Nawab Salimullah Khan ✓ **Correct answer**
- D. Maulana Muhammad Ali Jauhar

**A.** Viqar-ul-Mulk was a leading figure at Dhaka and seconded the resolution, but the name was proposed by Salimullah Khan.

**B.** The Aga Khan presided over the Dhaka session, but he did not propose the name.

**C.** At the Dhaka session of December 1906, Nawab Salimullah Khan proposed the formation of the party and its name, the All-India Muslim League.

**D.** Muhammad Ali Jauhar was a young journalist in 1906 and did not propose the name.

## Question 90 History

Who was the first US President to visit Pakistan while in office?

- A. Dwight D. Eisenhower ✓ **Correct answer**
- B. Richard Nixon
- C. Lyndon B. Johnson
- D. John F. Kennedy

**A.** Eisenhower visited Pakistan in December 1959, the first sitting US President to do so.

**B.** Nixon visited Pakistan in 1969, after Eisenhower.

**C.** Johnson visited Pakistan in 1967, after Eisenhower.

**D.** Kennedy never visited Pakistan as President.

# 91 General Knowledge

The World Trade Organization (WTO) came into being in:

- A. 1947
- B. 1991
- C. 1995 ✓ **Correct answer**
- D. 2001

**A.** 1947 was the GATT, the WTO's predecessor, not the WTO itself.

**B.** The WTO did not come into being in 1991.

**C.** The World Trade Organization came into being on 1 January 1995.

**D.** 2001 was the Doha Round launch, not the WTO's founding.

# Question 92 Science

The absorber plates of solar heating panels are usually painted:

- A. White
- B. Green
- C. Black ✓ **Correct answer**
- D. Silver

**A.** White reflects sunlight, so it would absorb little heat.

**B.** Green is not the standard absorber colour.

**C.** Absorber plates are painted black because black absorbs the most solar heat.

**D.** Silver reflects sunlight, so it would absorb little heat.

# Question 93 Mathematics

How many right angles make up a complete circle (one full turn)?

Correct answer

- B. 2
- C. 3
- D. 6

**A.** A full turn is 360 degrees and a right angle is 90 degrees, so 360 ÷ 90 = 4 right angles.

**B.** Two right angles make a half turn (180 degrees), not a full turn.

**C.** Three right angles make 270 degrees, not a full turn.

**D.** Six right angles would make 540 degrees, more than a full turn.

## Question 94 Mathematics

A quadrilateral whose opposite sides are both equal and parallel is called a:

- A. Parallelogram ✓ **Correct answer**
- B. Trapezium
- C. Kite
- D. Triangle

**A.** A parallelogram is a quadrilateral whose opposite sides are equal and parallel.

**B.** A trapezium has only one pair of parallel sides.

**C.** A kite has two pairs of adjacent equal sides, not opposite sides equal and parallel.

**D.** A triangle has three sides, not four.

## Question 95 Science

In the human body, blood is filtered and cleaned of waste mainly by the:

- A. Liver
- B. Heart
- C. Kidneys ✓ **Correct answer**

**A.** The liver detoxifies chemicals and makes bile, but it is not the main filter of blood waste.

**B.** The heart pumps blood, but does not filter it.

**C.** The kidneys filter the blood and remove waste as urine.

**D.** The spleen filters old red blood cells, but the kidneys are the main blood filters.

## Question 96 Science

Diamond is made up of:

- A. Carbon ✓ **Correct answer**
- B. Silicon
- C. Calcium
- D. Nitrogen

**A.** Diamond is a crystalline form of pure carbon.

**B.** Silicon is the main element of quartz and computer chips, not diamond.

**C.** Calcium is in bones and limestone, not diamond.

**D.** Nitrogen is a gas in the air, not the make-up of diamond.

## Question 97 Science

Bones and teeth are mainly made of:

- A. Calcium carbonate
- B. Calcium sulphate
- C. Sodium chloride
- D. Calcium phosphate ✓ **Correct answer**

**A.** Calcium carbonate is in limestone and shells, not the main mineral of bones.

ulphate is gypsum (plaster of Paris), not the main mineral of bones.

**C.** Sodium chloride is common salt, not the mineral of bones.

**D.** Bones and teeth are made mainly of calcium phosphate (hydroxyapatite).

## Question 98 Mathematics

A man walks 9 km east and then 12 km north. What is his displacement from the starting point?

- A. 21 km
- B. 15 km ✓ **Correct answer**
- C. 3 km
- D. 12 km

**A.** 21 km is the total distance walked (9 + 12), not the displacement.

**B.** Worked: the displacement is the hypotenuse of a right triangle with sides 9 and 12: $\sqrt{(9^2 + 12^2)} = \sqrt{225} = 15$ km.

**C.** 3 km is the difference of the two legs, not the displacement.

**D.** 12 km is only the northward leg, not the displacement.

## Question 99 Mathematics

A can do a piece of work in 10 days and B can do it in 15 days. Working together, in how many days will they finish it?

- A. 12.5
- B. 5
- C. 8
- D. 6 ✓ **Correct answer**

**A.** 12.5 is the average of 10 and 15, not the combined work time.

together they do 1/10 + 1/15 of the work per day, which is more than 1/5, so 5 days is too few.

**C.** 8 days would need a combined rate of 1/8 per day, but the combined rate is 1/6 per day.

**D.** Worked: together they do 1/10 + 1/15 = 1/6 of the work per day, so they finish in 6 days.

## Question 100 English

Choose the word most nearly OPPOSITE in meaning to DISABUSE.

- A. Enlighten
- B. Undeceive
- C. Correct
- D. Mislead ✓ **Correct answer**

**A.** Enlighten is a synonym of disabuse (to free someone from a false belief), not its opposite.

**B.** Undeceive is a synonym of disabuse, not its opposite.

**C.** Correct is close to disabuse in meaning (to set right), not its opposite.

**D.** Disabuse means to free someone from a false belief, so its opposite is to mislead (to lead someone into a false belief).

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