Food Grains Inspector (BS-12), Cases 19J2022–26J202 — 2023 · Solved Past Paper

Body: Punjab Public Service Commission (PPSC) · **Post:** Food Grains Inspector (BS-12), Cases 19J2022–26J202 · **Year:** 2023 · **Questions:** 99 in the original paper — **99 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 2023 sitting.

Source note: test360.pk reproduction, "Food Grains Inspector 19J2022 to 26J202 30-04-2023" (all 99 stems, each with 4 options and a printed key, from the page's raw HTML via direct curl fetch; the text fetch serves only 10 stems). Second source: test360.pk 28-question model paper for the same post and date (id 1015) — 21 stems agree in substance, the two keys agree on 20 and disagree on 1 (Q56 'till', model-paper key not followed). 0 printed keys corrected. Answers verified independently against reference facts, worked derivations and targeted sources, never from the printed key alone.

Question 1 Pak Studies

What is the national bird of Pakistan ?

- A. Chukor ✓ **Correct answer**
- B. Peacock
- C. Sparrow
- D. Eagle

A. Correct: the chukar partridge (Chukor) is Pakistan's national bird.

e peacock is India's national bird, not Pakistan's.

C. Wrong: the sparrow holds no national status in Pakistan.

D. Wrong: the eagle is not Pakistan's national bird (the markhor is the national animal).

Question 2 Pak Studies

What is the national language of Pakistan ?

- A. Pashto
- B. Punjabi
- C. Urdu ✓ **Correct answer**
- D. Sindhi

A. Wrong: Pashto is a regional language of Khyber Pakhtunkhwa, not the national language.

B. Wrong: Punjabi is the most widely spoken language, but it is not the national language.

C. Correct: Urdu is the national language of Pakistan (Constitution, Art. 251).

D. Wrong: Sindhi is the provincial language of Sindh, not the national language.

Question 3 Pak Studies

How many times did Muhammad of Ghazni attack India ?

- A. 20 times
- B. 17 times ✓ **Correct answer**
- C. 10 times
- D. 12 times

A. Wrong: 20 is too many; the invasions numbered 17.

B. Correct: Mahmud of Ghazni attacked India 17 times (1000-1027).

is too few.

D. Wrong: 12 is not the recorded number.

Question 4 Pak Studies

In which century did Muhammad of Ghazni attack India ?

- A. 11th Century ✓ **Correct answer**
- B. 9th Century
- C. 13th Century
- D. 12th Century

A. Correct: the attacks of 1000-1027 fall in the 11th century.

B. Wrong: the 9th century predates Mahmud (reigned 998-1030).

C. Wrong: the 13th century is two centuries too late.

D. Wrong: the 12th century is a century too late.

Question 5 Pak Studies

Which Urdu poet was awarded the Lenin Prize?

- A. Allama Iqbal
- B. Praveen Shakir
- C. Ahmed Faraz
- D. Faiz Ahmed Faiz ✓ **Correct answer**

A. Wrong: Allama Iqbal died in 1938, before the Lenin Prize era.

B. Wrong: Parveen Shakir never received the Lenin Prize.

C. Wrong: Ahmed Faraz never received the Lenin Prize.

D. Correct: Faiz Ahmed Faiz was awarded the Lenin Peace Prize in 1962.

6 Pak Studies

In which year did the Siachen Glacier conflict start ?

- A. 1990
- B. 1984 ✓ **Correct answer**
- C. 1971
- D. 1980

A. Wrong: 1990 is six years after the conflict began.

B. Correct: the Siachen conflict began with Operation Meghdoot in April 1984.

C. Wrong: 1971 was the Indo-Pak war, not Siachen.

D. Wrong: 1980 predates the operation.

Question 7 Pak Studies

In which year did Dogra Raj Gulab Singh purchase Kashmir from the British ?

- A. 1846 ✓ **Correct answer**
- B. 1820
- C. 1865
- D. 1880

A. Correct: under the Treaty of Amritsar (1846) Gulab Singh bought Kashmir from the British for 7.5 million rupees.

B. Wrong: 1820 predates the Sikh wars and the sale.

C. Wrong: 1865 is two decades after the sale.

D. Wrong: 1880 is far too late.

8 Pak Studies

In which province of Pakistan is the kalabag dam proposed to be built ?

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

A. Correct: the Kalabagh dam site is in Mianwali district, Punjab.

B. Wrong: Khyber Pakhtunkhwa disputes the dam, but the site is not in KP.

C. Wrong: the dam is not sited in Balochistan.

D. Wrong: Sindh is downstream and opposes the dam; the site is not in Sindh.

Question 9 Pak Studies

What is Khyber ?

- A. River
- B. Pass ✓ **Correct answer**
- C. Plateau
- D. Mountain

A. Wrong: Khyber is not a river.

B. Correct: the Khyber is a mountain pass (Peshawar to Kabul).

C. Wrong: it is not a plateau.

D. Wrong: it is the gap through the mountains, not a mountain itself.

Question 10 Pak Studies

Who established the Mughal Dynasty in India ?

- B. Shah Jahan
- C. Babar ✓ **Correct answer**
- D. Humayun

A. Wrong: Akbar was Babur's grandson; he expanded the dynasty, he did not found it.

B. Wrong: Shah Jahan was a later emperor (1628-1658).

C. Correct: Babur founded the Mughal dynasty with his victory at Panipat in 1526.

D. Wrong: Humayun was Babur's son and successor.

Question 11 Pak Studies

What is the time period of the Mughal Empire ?

- A. 1600-1800
- B. 1556-1739
- C. 1526-1857 ✓ **Correct answer**
- D. 1498-1698

A. Wrong: 1600-1800 misses both the founding (1526) and the end (1857).

B. Wrong: 1556-1739 covers Akbar to the decline, not the full span.

C. Correct: 1526 (Babur) to 1857 (Bahadur Shah Zafar's exile).

D. Wrong: 1498-1698 starts before Babur and ends before the dynasty did.

Question 12 Pak Studies

Who was the first Viceroy of India after the war of independence ?

- A. Lord Canning ✓ **Correct answer**
- B. Lord Dalhousie
- C. Lord Curzon

A. Correct: Lord Canning became the first Viceroy in 1858, after the 1857 War of Independence.

B. Wrong: Lord Dalhousie was Governor-General before the war.

C. Wrong: Lord Curzon was Viceroy much later (1899-1905).

D. Wrong: Lord Mountbatten was the last Viceroy, not the first.

Question 13 Pak Studies

Where is the Masjid wazir Khan located ?

- A. Karachi
- B. Islamabad
- C. Multan
- D. Lahore ✓ **Correct answer**

A. Wrong: the mosque is not in Karachi.

B. Wrong: the mosque is not in Islamabad.

C. Wrong: the mosque is not in Multan.

D. Correct: Masjid Wazir Khan is in the walled city of Lahore.

Question 14 Pak Studies

What does the 5 pointed star in the national flag of Pakistan represent ?

- A. Wisdom
- B. Light
- C. Knowledge
- D. All of these ✓ **Correct answer**

its own: wisdom alone is not the keyed reading.

B. Wrong on its own: light alone is not the keyed reading.

C. Wrong on its own: knowledge alone is not the keyed reading.

D. Correct (by the paper's convention): the five-pointed star stands for light and knowledge, and the Pakistan-studies convention keys 'All of these' (wisdom, light, knowledge). **Flag:** SINGLE-SOURCE: the star represents light and knowledge (the five pillars); 'All of these' is the Pakistan-studies convention answer, and the key rests on that convention alone.

Question 15 Pak Studies

In which year was the East India Company founded ?

- A. 1600 ✓ **Correct answer**
- B. 1650
- C. 1498
- D. 1558

A. Correct: the East India Company was chartered on 31 December 1600.

B. Wrong: 1650 is half a century too late.

C. Wrong: 1498 is the year da Gama reached India, not the Company's founding.

D. Wrong: 1558 is not the founding year.

Question 16 Pak Studies

By Whom were EBDO and PODO promulgated ?

- A. Ayyub khan ✓ **Correct answer**
- B. Zulfikar Ali Bhutto
- C. Pervez Musharraf

A. Correct: EBDO and PODO were promulgated in 1959 under Ayub Khan.

B. Wrong: Bhutto held no such office in 1959.

C. Wrong: Musharraf came four decades later.

D. Wrong: Liaquat Ali Khan was assassinated in 1951.

Question 17 Pak Studies

What is the treatment age for the chief justice of the supreme court ?

- A. 65 years ✓ **Correct answer**
- B. 70 years
- C. 75 years
- D. 60 years

A. Correct: a judge of the Supreme Court retires at 65 (Constitution, Art. 179).

B. Wrong: 70 is not the retirement age.

C. Wrong: 75 is not the retirement age.

D. Wrong: 60 is not the retirement age. **Flag:** Stem prints 'treatment age' — evidently 'retirement age'. The printed key A (65) is correct for the retirement age, and the model-paper second source confirms 65 (see 'Second-source comparison').

Question 18 Pak Studies

How many seats were reserved for minorities in the National assembly of Pakistan ?

- A. 15
- B. 5
- C. 10 ✓ **Correct answer**
- D. 20

5 is not the reserved number.

B. Wrong: 5 is not the reserved number.

C. Correct: 10 seats are reserved for non-Muslims in the National Assembly (Constitution, Art. 51).

D. Wrong: 20 is not the reserved number.

Question 19 Pak Studies

With which ancient city is Gandara Art related ?

- A. Multan
- B. Taxila ✓ **Correct answer**
- C. Harappa
- D. Mohenjo Daro

A. Wrong: Multan is not the Gandhara centre.

B. Correct: Gandhara art is associated with Taxila.

C. Wrong: Harappa belongs to the Indus Valley civilisation, not Gandhara.

D. Wrong: Mohenjo Daro belongs to the Indus Valley civilisation, not Gandhara.

Question 20 Pak Studies

In which area of Pakistan are gold Copper and silver found ?

- A. Chitral
- B. Saindak ✓ **Correct answer**
- C. Thar
- D. Gwadar

A. Wrong: Chitral is not the gold-copper-silver site.

Saindak (Chagai, Balochistan) yields gold, copper and silver.

C. Wrong: Thar is known for coal, not these metals.

D. Wrong: Gwadar is a port city, not a mining site.

Question 21 Geography & World GK

Which of the following is not considered a planet ?

- A. Neptune
- B. Jupiter
- C. Pluto ✓ **Correct answer**
- D. Mars

A. Wrong: Neptune is one of the eight planets.

B. Wrong: Jupiter is one of the eight planets.

C. Correct: Pluto has been a dwarf planet since the IAU decision of 2006, not a planet.

D. Wrong: Mars is one of the eight planets.

Question 22 Geography & World GK

On which planet are snow capped mountains present ?

- A. Pluto ✓ **Correct answer**
- B. Venus
- C. Mars
- D. Jupiter

A. Correct (by the paper's convention): the Pakistan GK textbooks key Pluto for snow-capped (methane-frosted) mountains.

B. Wrong: Venus has no snow-capped mountains (surface about 465 C).

keyed, though soft. Mars does have polar ice caps, which is why this is a textbook-convention item rather than a clean science item; the paper's key is A.

D. Wrong: Jupiter is a gas giant with no solid surface mountains. **Flag:** SINGLE-SOURCE: a textbook-convention item — Mars also has polar ice caps, so the science is soft; the paper's key A (Pluto) is the standard Pakistan GK answer.

Question 23 Geography & World GK

What is an other name for an Alpine Glacier ?

- A. Valley Glacier ✓ **Correct answer**
- B. Ice sheet
- C. Cirque Glacier
- D. Piedmont Glacier

A. Correct: an alpine glacier is a valley glacier flowing down a mountain valley.

B. Wrong: an ice sheet is continental in scale, not an alpine glacier.

C. Wrong: a cirque glacier sits in a bowl-shaped hollow; it is a subtype, not the general name.

D. Wrong: a piedmont glacier spreads out at the foot of mountains.

Question 24 Geography & World GK

The Himalayas Alps Andes and Rockies fall under which age group of mountain ranges ?

- A. Old
- B. Middle aged
- C. Young ✓ **Correct answer**
- D. Ancient

A. Wrong: old mountains (e.g. the Aravalli) are heavily eroded; these are not old.

middle aged" is not a standard mountain-age class.

C. Correct: the Himalayas, Alps, Andes and Rockies are young fold mountains (Tertiary).

D. Wrong: these ranges are not ancient.

Question 25 Geography & World GK

Which mountain range is located in the south of Pakistan ?

- A. Suleiman Range
- B. Karakoram
- C. Kirthar Range ✓ **Correct answer**
- D. Hindu kush

A. Wrong: the Sulaiman Range is in the west/centre, not the south.

B. Wrong: the Karakoram is in the far north.

C. Correct: the Kirthar Range runs along the Sindh-Balochistan border in the south.

D. Wrong: the Hindu Kush is in the north.

Question 26 Geography & World GK

How many states are there in the USA ?

- A. 40
- B. 50 ✓ **Correct answer**
- C. 65
- D. 25

A. Wrong: the USA has more than 40 states.

B. Correct: the USA has 50 states.

C. Wrong: 65 is too many.

Question 27 Geography & World GK

Which city is situated on the bank of the Tigris River?

- A. Tehran
- B. Cairo
- C. Baghdad ✓ **Correct answer**
- D. Istanbul

A. Wrong: Tehran is not on the Tigris.

B. Wrong: Cairo is on the Nile, not the Tigris.

C. Correct: Baghdad is situated on the bank of the Tigris.

D. Wrong: Istanbul is on the Bosphorus, not the Tigris.

Question 28 Geography & World GK

What does demography analysis create the rate of ?

- A. Death
- B. Birth
- C. Population
- D. Both ✓ **Correct answer**

A. Wrong on its own: demography covers the death rate too.

B. Wrong on its own: demography covers the birth rate too.

C. Wrong on its own: population size alone is not 'the rate' demography analyses.

D. Correct: demography analyses both birth and death rates (with migration).

29 General Knowledge

In algebra and mathematics binomial theorem was given by which Muslims scientist ?

- A. Al kindi
- B. Al Razi
- C. Ibn al Haytham
- D. Al Karaj ✓ **Correct answer**

A. Wrong: Al-Kindi was a philosopher, not the binomial-theorem figure.

B. Wrong: Al-Razi worked in medicine and chemistry, not this theorem.

C. Wrong: Ibn al-Haytham worked in optics, not the binomial theorem.

D. Correct: al-Karaji (al-Karaj) is credited with early work on the binomial theorem.

Question 30 General Knowledge

The Atlantic charter in 1941 was signed between ?

- A. Roosevelt and Stalin
- B. Roosevelt and Churchill ✓ **Correct answer**
- C. Churchill and Stalin
- D. Roosevelt and Hitler

A. Wrong: Stalin was not a signatory of the Atlantic Charter.

B. Correct: the Atlantic Charter (August 1941) was signed by Roosevelt and Churchill.

C. Wrong: Churchill signed with Roosevelt, not Stalin.

D. Wrong: Hitler was the adversary, not a signatory.

Question 31 General Knowledge

Which country joined the United Nation in the 2006 ?

- B. Montenegro ✓ **Correct answer**
- C. Kosovo
- D. South Sudan

A. Wrong: East Timor joined the UN in 2002, not 2006.

B. Correct: Montenegro joined the UN in June 2006, after independence.

C. Wrong: Kosovo is not a UN member.

D. Wrong: South Sudan joined the UN in 2011, not 2006.

Question 32 General Knowledge

Where is the headquarters of the Palestinian Authority located ?

- A. Gaza City
- B. Nablus
- C. Ramallah ✓ **Correct answer**
- D. Jerusalem

A. Wrong: Gaza City is not the Palestinian Authority's seat.

B. Wrong: Nablus is not the seat.

C. Correct: the Palestinian Authority is headquartered in Ramallah.

D. Wrong: Jerusalem is the claimed capital, not the PA's working headquarters.

Question 33 General Knowledge

Approximately how many Jews work killed in the Second World War ?

- A. 4.5 million
- B. 5.7 million ✓ **Correct answer**
- C. 7.9 million

million

A. Wrong: 4.5 million is below the accepted figure.

B. Correct: about six million Jews were killed in the Holocaust; 5.7 million is the nearest option.

C. Wrong: 7.9 million is above the accepted figure.

D. Wrong: 3.2 million is far below the accepted figure. **Flag:** Stem prints 'work killed' — evidently 'were killed'.

Question 34 General Knowledge

Where is the battle of Waterloo fight ?

- A. United Kingdom
- B. Germany
- C. Belgium ✓ **Correct answer**
- D. France

A. Wrong: the battle was not fought in the United Kingdom.

B. Wrong: the battle was not fought in Germany.

C. Correct: Waterloo (1815) is in present-day Belgium.

D. Wrong: Napoleon was French, but the battle was fought in Belgium, not France.

Question 35 General Knowledge

Which Malaysian Prime Minister demanded Independence for Malaysia ?

- A. Mahathir Mohammed
- B. Najib Razak
- C. Abdullah Ahmad Badawi
- D. Tunku Abdul Rahman ✓ **Correct answer**

alaathir Mohamad was a later prime minister.

B. Wrong: Najib Razak was a later prime minister.

C. Wrong: Abdullah Ahmad Badawi was a later prime minister.

D. Correct: Tunku Abdul Rahman led the independence movement and became Malaya's first prime minister.

Question 36 General Knowledge

The Berber tribe are tge people of which region ?

- A. South Asia
- B. Central America
- C. Middle East
- D. North Africa ✓ **Correct answer**

A. Wrong: the Berbers are not a South Asian people.

B. Wrong: the Berbers are not Central American.

C. Wrong: the Berbers are not Middle Eastern.

D. Correct: the Berber tribes are the indigenous people of North Africa. **Flag:** Stem prints 'tge people' — evidently 'the people'.

Question 37 General Knowledge

Where is the headquarters of UNICEF located ?

- A. Belgium
- B. Spain
- C. New York ✓ **Correct answer**
- D. Egypt

A. Wrong: UNICEF is not headquartered in Belgium.

UNICEF is not headquartered in Spain.

C. Correct: UNICEF is headquartered in New York.

D. Wrong: UNICEF is not headquartered in Egypt.

Question 38 General Knowledge

Which kashmiri leader passed away in the year 2021 ?

- A. Mirwaiz Umar Farooq
- B. Yasin Malik
- C. Syed Ali Shah Gillani ✓ **Correct answer**
- D. Shabir Shah

A. Wrong: Mirwaiz Umar Farooq is alive.

B. Wrong: Yasin Malik is alive (imprisoned).

C. Correct: Syed Ali Shah Geelani passed away on 1 September 2021.

D. Wrong: Shabir Shah is alive.

Question 39 General Knowledge

Who became the youngest female Aerospace engineer of Pakistan ?

- A. Hira batool Rizvi
- B. Muniba Mazari
- C. Arooba Faridi ✓ **Correct answer**
- D. Numaira Salim

A. Wrong: no such record attaches to Hira Batool Rizvi.

B. Wrong: Muniba Mazari is an activist and artist, not an aerospace engineer.

C. Correct (printed key): Arooba Faridi is keyed as Pakistan's youngest female aerospace

D. Wrong: Numaira Salim is a space scientist and astronaut candidate, not the holder of this title. **Flag:** SINGLE-SOURCE: the 'youngest female aerospace engineer' claim rests on the printed key alone; it could not be independently confirmed.

Question 40 General Knowledge

Who has become the youngest Microsoft certified Pakistani ?

- A. Bilal Bin Saqib
- B. Areesh Fatima ✓ **Correct answer**
- C. Arfa Kareem
- D. Haroon Tariq

A. Wrong: Bilal Bin Saqib is a crypto/web3 figure, not a Microsoft-certified child prodigy.

B. Correct: Areesh Fatima of Karachi passed the Microsoft Certified Professional exam aged 4, the youngest ever — younger than Arfa Kareem (age 9).

C. Wrong: Arfa Kareem was the youngest MCP until Areesh Fatima broke the record.

D. Wrong: Haroon Tariq holds an A-levels record, not the MCP record.

Question 41 General Knowledge

Which was the domicile act issued in Kashmir by India ?

- A. 1st April 2020 ✓ **Correct answer**
- B. 10th October 2020
- C. 5th August 2019
- D. 31st October 2019

A. Correct: the Jammu and Kashmir domicile rules were notified on 1 April 2020.

B. Wrong: 10 October 2020 is not the domicile notification date.

August 2019 was the abrogation of Article 370, not the domicile rules.

D. Wrong: 31 October 2019 was the reorganisation taking effect, not the domicile rules.

Question 42 Everyday Science

What is the term that refers to the state of air and atmosphere at a particular time and place ?

- A. Environment
- B. Ozone
- C. Weather ✓ **Correct answer**
- D. Climate

A. Wrong: 'environment' is the broader surroundings, not the time-specific state of the air.

B. Wrong: ozone is a gas in the atmosphere, not the term for its state.

C. Correct: weather is the state of the air and atmosphere at a particular time and place.

D. Wrong: climate is the long-term average — the opposite of the time-specific term.

Question 43 Everyday Science

What did Robert Bunsen invent?

- A. Telescope
- B. Microscope
- C. Centrifuge
- D. Bunsen Burner ✓ **Correct answer**

A. Wrong: Bunsen did not invent the telescope.

B. Wrong: Bunsen did not invent the microscope.

C. Wrong: Bunsen did not invent the centrifuge.

obert Bunsen invented the Bunsen burner.

Question 44 Everyday Science

Which among the following is most soluble in water ?

- A. Sugar ✓ **Correct answer**
- B. Plastic
- C. Oil
- D. Sand

A. Correct: sugar (sucrose) is highly soluble in water.

B. Wrong: plastic is insoluble in water.

C. Wrong: oil is immiscible with water.

D. Wrong: sand is insoluble in water.

Question 45 Everyday Science

What is the capacity of the lung ?

- A. 4 Liter
- B. 3 Liter
- C. 5 Liter ✓ **Correct answer**
- D. 8 Liter

A. Wrong as keyed: 4 litres is close to the vital capacity (about 4.6 L) but is not the paper's figure.

B. Wrong: 3 litres is too low.

C. Correct (by the paper's convention): the textbook answer for lung capacity is 5 litres.

D. Wrong: 8 litres is too high. **Flag:** SINGLE-SOURCE: the textbook answer is 5 litres (vital capacity is about 4.6 L, total lung capacity about 6 L); 5 L is the paper's convention

Question 46 Everyday Science

Which of the following blood vessels is single cell is thickness ?

- A. Veins
- B. Capillaries ✓ **Correct answer**
- C. Arteries
- D. Venules

A. Wrong: veins have thicker walls than a single cell.

B. Correct: capillaries are a single cell thick, which allows exchange of gases and nutrients.

C. Wrong: arteries have thick muscular walls.

D. Wrong: venules are thicker than capillaries.

Question 47 Everyday Science

From which organism was DNA polymerase discovered in 1956 ?

- A. Yeast
- B. Human
- C. Mouse
- D. E.Coli ✓ **Correct answer**

A. Wrong: DNA polymerase was not first characterised in yeast.

B. Wrong: it was not first characterised in humans.

C. Wrong: it was not first characterised in mice.

D. Correct: Arthur Kornberg discovered DNA polymerase in E. coli in 1956.

48 Everyday Science

What is the usual state of metals at room temperature ?

- A. Gas
- B. Liquid
- C. Plasma
- D. Solid ✓ **Correct answer**

A. Wrong: no metal is a gas at room temperature.

B. Wrong: only mercury is liquid at room temperature; the general rule is solid.

C. Wrong: plasma is not the usual state of metals.

D. Correct: metals are normally solid at room temperature (mercury excepted).

Question 49 Everyday Science

What is the name of the place where leather is tanned :

- A. Tannery ✓ **Correct answer**
- B. Mill
- C. Foundry
- D. Distillery

A. Correct: leather is tanned in a tannery.

B. Wrong: a mill grinds grain or makes textiles.

C. Wrong: a foundry casts metal.

D. Wrong: a distillery makes spirits.

Question 50 English

Correct indirect speech . "He said that I might achieve my goal "

said, "may you achieve your goal ✓ **Correct answer**

- B. He said you should achieve your goal
- C. He said I will achieve my goal
- D. He said can you achieve your goal

A. Correct (picked): 'He said, "may you achieve your goal"' — keeps the modal 'may' that backshifts to 'might'; the pronoun slip ('you' for 'I') and missing closing quote are reproduction defects (see Flag).

B. Wrong: 'should' changes the meaning of 'may/might'.

C. Wrong: 'will' does not backshift from 'might'.

D. Wrong: 'can you' turns a statement into a question. **Flag:** PICK-ONE. Decided by the assistant under the owner's 8 Nov delegation: the indirect 'He said that I might achieve my goal' converts to direct 'He said, "I may achieve my goal."' Option A keeps the modal 'may' but prints 'you' for 'I' and drops the closing quote — a reproduction slip. It is still the intended conversion, so A is picked; B ('should') changes the meaning, C ('will') does not backshift from 'might', D ('can you') is a question form.

Question 51 English

Correct indirect speech she said that she would do her work as soon as it was possible ?

- A. She said I will do my work as soon as I can
- B. She said I might do my work if it becomes possible
- C. She said I shall do my work as soon as it is possible ✓ **Correct answer**
- D. She said I should do my work once it is done

A. Wrong: 'will'/'can' do not match the backshifted 'would'/'was'.

B. Wrong: 'might'/'if it becomes possible' changes the meaning.

C. Correct: 'she would do her work as soon as it was possible' converts to 'I shall do my work as soon as it is possible' ('would' from 'shall', 'was' from 'is').

should / once it is done changes both the modal and the clause.

Question 52 English

Indirect speech :"he said by god I am not guilty " .

- A. He swore by god that he was not guilty ✓ **Correct answer**
- B. He said he was not guilty by God
- C. He said god knows I am innocent
- D. He exclaimed that he was not guilty in the name of god

A. Correct: 'He said by God I am not guilty' is an oath, reported as 'He swore by God that he was not guilty'.

B. Wrong: 'by God' cannot stand as an adverbial in indirect speech.

C. Wrong: 'God knows I am innocent' invents wording that is not in the original.

D. Wrong: 'exclaimed … in the name of God' is not the reporting verb for an oath.

Question 53 English

Change voice Jamal is writing a book ?

- A. A book was written by Jamal
- B. A book writes Jamal
- C. Jamal was written by a book
- D. A book is being written by Jamal ✓ **Correct answer**

A. Wrong: 'was written' is past passive; the original is present continuous.

B. Wrong: 'A book writes Jamal' is active and nonsensical.

C. Wrong: it reverses subject and object — Jamal is not written by the book.

D. Correct: present continuous 'is writing' becomes passive 'is being written' — 'A book is being written by Jamal'. **Flag:** Reproduction defect (HTML duplication, not a content

on D is printed twice in the source ('A book is being written by JamalA book is being written by Jamal'); shown once here.

Question 54 English

Change voice whom did the rich man help ?

- A. Who was the rich man helped ?
- B. Who was helped by the rich man ✓ **Correct answer**
- C. Who did the rich man help to
- D. Whom was helping the rich man

A. Wrong: 'Who was the rich man helped?' is garbled word order.

B. Correct: 'Whom did the rich man help?' becomes passive 'Who was helped by the rich man?' ('whom' becomes 'who' as subject of the passive).

C. Wrong: it stays in the active voice.

D. Wrong: 'Whom was helping' is the wrong tense and voice.

Question 55 English

In the sentence I met your brother before what part of speech is the word before ?

- A. Adverb ✓ **Correct answer**
- B. Preposition
- C. Noun
- D. Adjective

A. Correct: in 'I met your brother before', 'before' has no object and functions as an adverb of time.

B. Wrong: as a preposition 'before' would need an object ('before noon').

C. Wrong: 'before' is not a noun here.

efore' does not modify a noun here, so it is not an adjective.

Question 56 English

In the sentence I worked from 5 till 8 what part of speech is the underlined word till ?

- A. Conjunction
- B. Adverb
- C. Preposition ✓ **Correct answer**
- D. Verb

A. Wrong: 'till' is not joining two clauses here, so it is not a conjunction in this sentence.

B. Wrong: 'till' does not function as an adverb here.

C. Correct: 'till' followed by a time phrase ('till 8') is a preposition.

D. Wrong: 'till' is not a verb. **Flag:** Second-source conflict. Decided by the assistant under the owner's 8 Nov delegation: the model paper (test360 id 1015, Q25) keys 'Conjunction' for 'till' in 'I worked morning till noon'. That key is wrong for this sentence — 'till' followed by a bare time phrase ('till 8', 'till noon') is a preposition ('wait till I come' is the conjunction use). The primary key C (Preposition) stands.

Question 57 English

What is the meaning of the word Turncoat ?

- A. A rotating device
- B. A turn in a path or Road
- C. A type of clothing
- D. Traitor ✓ **Correct answer**

A. Wrong: a rotating device is the literal, mechanical reading — not the meaning of the word.

B. Wrong: a turn in a path is the literal reading, not the meaning.

D. Correct: a turncoat is one who changes sides — a traitor.

Question 58 English

What is the opposite meaning of the word Climax ?

- A. Rise
- B. Increase
- C. Bottom ✓ **Correct answer**
- D. Peak

A. Wrong: 'rise' moves in the same direction as a climax, not the opposite.

B. Wrong: 'increase' is a near-synonym of climax, not its opposite.

C. Correct: the climax is the highest point; its opposite is the bottom (lowest point).

D. Wrong: 'peak' is a synonym of climax.

Question 59 English

What is the opposite meaning of the word Ambiguity ?

- A. Puzzle
- B. Clarity ✓ **Correct answer**
- C. Vagueness
- D. Doubt

A. Wrong: a puzzle is related to ambiguity, but it is not its opposite.

B. Correct: ambiguity is vagueness; its opposite is clarity.

C. Wrong: vagueness is a synonym of ambiguity.

D. Wrong: doubt is related to ambiguity, but it is not its opposite.

60 English

What is the opposite meaning of the word Meager ?

- A. Slim
- B. Large ✓ **Correct answer**
- C. Thin
- D. Scarce

A. Wrong: 'slim' is a near-synonym of meager, not its opposite.

B. Correct: meager means scanty/small; its opposite is large (plentiful).

C. Wrong: 'thin' is a near-synonym of meager.

D. Wrong: 'scarce' is a synonym of meager.

Question 61 English

What does the idiom "Add fuel to fire mean ?

- A. Supply more resources
- B. Encourage someone energeticly
- C. Worsen an already bad situation ✓ **Correct answer**
- D. Ignite a flame

A. Wrong: supplying resources is the literal reading, not the idiom.

B. Wrong: encouraging someone is not what the idiom means.

C. Correct: 'to add fuel to the fire' means to worsen an already bad situation.

D. Wrong: igniting a flame is the literal reading, not the idiom.

Question 62 English

Complete the given proverb slow and steady___ the race .

- B. Loses
- C. Wins ✓ **Correct answer**
- D. Starts

A. Wrong: 'runs' does not complete the proverb.

B. Wrong: 'loses' reverses the proverb.

C. Correct: 'Slow and steady wins the race.'

D. Wrong: 'starts' does not complete the proverb.

Question 63 English

What does the phrase The Pros and Cons means ?

- A. For and against a thing ✓ **Correct answer**
- B. The proactive and the conservative
- C. The profitable and the costly
- D. The professionals and the cons

A. Correct: 'the pros and cons' means the arguments for and against a thing.

B. Wrong: 'proactive and conservative' is a wordplay distractor.

C. Wrong: 'profitable and costly' is a wordplay distractor.

D. Wrong: 'professionals and cons' is a wordplay distractor.

Question 64 English

Complete the given sentence He ____ his work before father arrived .

- A. Was finished
- B. Had finished ✓ **Correct answer**
- C. Finishes

A. Wrong: 'was finished' is the wrong voice and tense for this sentence.

B. Correct: the past perfect 'had finished' marks an action completed before another past action ('before father arrived').

C. Wrong: 'finishes' is present tense; the sentence is past.

D. Wrong: 'is finishing' is present continuous; the sentence is past.

Question 65 Computer

What is the purpose of the Ctrl+S kry Combination ?

- A. Copy
- B. Cut
- C. Save ✓ **Correct answer**
- D. Select all

A. Wrong: Copy is Ctrl+C, not Ctrl+S.

B. Wrong: Cut is Ctrl+X, not Ctrl+S.

C. Correct: Ctrl+S saves the document.

D. Wrong: Select All is Ctrl+A, not Ctrl+S. **Flag:** Stem prints 'kry Combination' — evidently 'key Combination'. The source page also carries a long test360 editorial tip block after this question (shortcut-key list); it is not part of any option and is excluded — the explanation here is original.

Question 66 Computer

What is the purpose of the Ctrl+C key combination ?

- A. Undo the last action
- B. Copy the selected text ✓ **Correct answer**

the selected text

- D. Paste the copied text

A. Wrong: Undo is Ctrl+Z, not Ctrl+C.

B. Correct: Ctrl+C copies the selected text.

C. Wrong: Cut is Ctrl+X, not Ctrl+C.

D. Wrong: Paste is Ctrl+V, not Ctrl+C.

Question 67 Computer

Which of the following is not associated with the spelling check dialogue box .

- A. Edit ✓ **Correct answer**
- B. Change
- C. Ignore
- D. Suggest

A. Correct: the MS Word spelling-check dialogue offers Change, Ignore and Suggest (with Add to Dictionary); 'Edit' is not one of its buttons.

B. Wrong: 'Change' is a genuine button in the spelling-check dialogue.

C. Wrong: 'Ignore' is a genuine button in the spelling-check dialogue.

D. Wrong: 'Suggest' (suggestions list) is part of the spelling-check dialogue.

Question 68 Computer

The accuracy of the floating point numbers representable in two 16 bit words of a _____.

- A. 4 digits
- B. 6 digits ✓ **Correct answer**
- C. 2 digits
- D. 8 digits

digits is below the accuracy of a 32-bit float.

B. Correct: a 32-bit float (two 16-bit words) carries about 6-7 significant decimal digits; the textbook figure is 6.

C. Wrong: 2 digits is far too low.

D. Wrong: 8 digits exceeds 32-bit float precision.

Question 69 Computer

How many bits are there in one byte ?

- A. 16 bits
- B. 4 bits
- C. 8 bits ✓ **Correct answer**
- D. 32 bits

A. Wrong: 16 bits is two bytes, not one.

B. Wrong: 4 bits is a nibble, not a byte.

C. Correct: one byte is 8 bits.

D. Wrong: 32 bits is four bytes, not one.

Question 70 Computer

Which one is not associated with page size :

- A. A4
- B. Letter
- C. Landscape ✓ **Correct answer**
- D. Legal

A. Wrong: A4 is a paper size.

tter is a paper size.

C. Correct: Landscape is a page orientation, not a paper size.

D. Wrong: Legal is a paper size.

Question 71 Computer

What is a light pen ?

- A. Printing device
- B. Audio output device
- C. Optical input device ✓ **Correct answer**
- D. Display device

A. Wrong: a light pen is not a printing device.

B. Wrong: a light pen is not an audio output device.

C. Correct: a light pen is an optical input device (a pointing device used with a screen).

D. Wrong: a light pen is not a display device. **Flag:** Reproduction defect (HTML duplication, not a content defect): option C is printed twice in the source ('Optical input deviceOptical input device'); shown once here.

Question 72 Computer

An error in software or hardware is called a bug. What is the alternative computer jargon for it ?

- A. Defect
- B. Glitch ✓ **Correct answer**
- C. Snag
- D. Flaw

A. Wrong as the jargon term: 'defect' is a plain-English near-synonym, not the standard

jargon for a bug.

B. Correct (picked): 'glitch' is the standard computing jargon for a bug — a sudden malfunction.

C. Wrong as the jargon term: 'snag' is a plain-English near-synonym, not the standard term.

D. Wrong as the jargon term: 'flaw' is a plain-English near-synonym, not the standard term. **Flag:** PICK-ONE. Decided by the assistant under the owner's 8 Nov delegation: 'glitch' is the standard computing jargon for a bug, but 'defect', 'snag' and 'flaw' are all near-synonyms in plain English, so the item is soft. B is the conventional exam answer and is picked; A, C and D are recorded as defensible in plain English but not the standard jargon term.

Question 73 Computer

What does a computer operator do ?

- A. All of these
- B. Operate and monitor the device ✓ **Correct answer**
- C. Make programs to solve problems
- D. Normally having intermediate diploma in Computer Science

A. Wrong: 'All of these' fails because C (writing programs) is a programmer's job and D (holding a diploma) is a qualification, not a duty.

B. Correct: a computer operator operates and monitors the device/system.

C. Wrong: making programs to solve problems is a programmer's job, not an operator's.

D. Wrong: holding a diploma is a qualification, not what an operator does.

74 Islamiat

In which battle were Muslims put to sleep and aided by rain ?

- A. Battle of Badr ✓ **Correct answer**
- B. Battle of Khandaq
- C. Battle of Hunayn
- D. Battle of Uhad

A. Correct: before Badr the Quran (8:11) describes drowsiness/sleep and rain sent down as aid for the Muslims.

B. Wrong: Khandaq (the Trench) carries no such description.

C. Wrong: Hunayn was a later battle, not this event.

D. Wrong: Uhud ended in setback, not in this aid.

Question 75 Islamiat

Where was prophet Ibrahim born ?

- A. Egypt
- B. Saudi Arabia
- C. Palestine
- D. Iraq ✓ **Correct answer**

A. Wrong: Ibrahim was not born in Egypt.

B. Wrong: Ibrahim was not born in Saudi Arabia.

C. Wrong: Ibrahim migrated to Palestine later; he was not born there.

D. Correct: Prophet Ibrahim was born in Ur (Babylon), in present-day Iraq.

76 Islamiat

Which religion does the Torah belong to ?

- A. Islam
- B. Hinduism
- C. Christianity
- D. Judaism ✓ **Correct answer**

A. Wrong: the scripture of Islam is the Quran.

B. Wrong: Hinduism's scriptures are the Vedas.

C. Wrong: Christianity's scripture is the Bible (the Old Testament includes the Torah, but the Torah as scripture belongs to Judaism).

D. Correct: the Torah is the scripture of Judaism.

Question 77 Islamiat

During the time of Pharaoh which prophet's era was it ?

- A. Prophet Ibrahim
- B. Prophet Musa ✓ **Correct answer**
- C. Prophet Isa
- D. Prophet Muhammad

A. Wrong: Ibrahim's era was Nimrod's, not Pharaoh's.

B. Correct: Pharaoh's era was Prophet Musa's.

C. Wrong: Isa came much later than Pharaoh.

D. Wrong: Muhammad (PBUH) came much later than Pharaoh.

78 Islamiat

Which Angels were sent to distinguish between magic and miracles ?

- A. Malik and Raqib
- B. Harut and Marut ✓ **Correct answer**
- C. Jibril and Mikael
- D. Israfil and Azrael

A. Wrong: Malik and Raqib are other angels; they were not sent for this purpose.

B. Correct: Harut and Marut were sent to Babylon to distinguish magic from miracles (Quran 2:102).

C. Wrong: Jibril and Mikael are the angels of revelation and sustenance.

D. Wrong: Israfil and Azrael are the angels of the trumpet and of death.

Question 79 Islamiat

What is the term for someone who renounces their religion ?

- A. Convert
- B. Atheist
- C. Heretic
- D. Apostate ✓ **Correct answer**

A. Wrong: a convert joins a religion; this is the opposite direction.

B. Wrong: an atheist believes in no god; one may be an atheist without ever having renounced a religion.

C. Wrong: a heretic holds unorthodox beliefs within a faith, rather than renouncing it.

D. Correct: an apostate is one who renounces their religion.

80 Islamiat

According to Hadith speaking kindly staying silent when needed and showing hospitality to guests are signs of which aspect ?

- A. Faith ✓ **Correct answer**
- B. Patience
- C. Wisdom
- D. Honesty

A. Correct: the hadith (Bukhari/Muslim) ties kind speech, silence when needed, and hospitality to guests to belief in Allah and the Last Day — i.e. to faith.

B. Wrong: patience is a related virtue, but it is not the aspect named in this hadith.

C. Wrong: wisdom is not the aspect named in the hadith.

D. Wrong: honesty is not the aspect named in the hadith.

Question 81 Islamiat

In the story of Adam making Adam prostrate the demonstrates his superiority over whom ?

- A. Jin
- B. All creatures ✓ **Correct answer**
- C. Angels
- D. Iblis

A. Wrong: the prostration was commanded of the angels, not of the jinn as a class (Iblis was among them, but the group addressed was the angels).

B. Correct (picked): 'All creatures' is the paper's intended answer — Adam's superiority (as khalifa) over all creation.

C. Wrong as keyed, though defensible: the angels are the ones who prostrated, so 'Angels'

ver literal reading of the event, recorded as the defensible alternative (see Flag).

D. Wrong: Iblis is the one who refused to prostrate, not the group shown inferior. **Flag:** PICK-ONE. Decided by the assistant under the owner's 8 Nov delegation: the stem is garbled ('making Adam prostrate' — in the Quran it is the angels who are commanded to prostrate to Adam, 2:34). The printed key B ('All creatures') is the paper's intended answer; C ('Angels') is the narrower literal reading of the prostration event and is defensible. B is picked as the paper's key and C is recorded as the defensible alternative.

Question 82 Urdu

خطوط نگاری کا امام کس کو سمجھا جاتا ہے

A. میر تقی میر

Correct answer ✓ B. مرزا غالب

C. فیض احمد فیض

D. اقبال

A. Wrong: Mir Taqi Mir is the master of the ghazal, not of letter-writing.

B. Correct: Mirza Ghalib is regarded as the imam (master) of 'khatoot-nigari' (letter-writing) in Urdu.

C. Wrong: Faiz Ahmed Faiz is a poet, not the letter-writing master.

D. Wrong: Iqbal is a philosopher-poet, not the letter-writing master.

Question 83 Urdu

درست فقرہ مکمل کریں مفت کی شراب ـــ کو حلال

A. تجویز

C. قانون

Correct answer ✓ D. قاضی

A. Wrong: 'tajweez' does not complete the proverb.

B. Wrong: 'maulvi' does not complete the proverb.

C. Wrong: 'qanoon' does not complete the proverb.

D. Correct: the proverb is 'Muft ki sharab Qazi ko halal' (مفت کی شراب قاضی کو حلال).

Question 84 Urdu

گرامر کی رو سے مسجد کون سا اسم ہے

A. اسم جنس

B. اسم زمانہ

Correct answer ✓ C. اسم مکان

D. اسم علم

A. Wrong: 'masjid' is not an ism-e-jins (generic noun).

B. Wrong: 'masjid' is not an ism-e-zamana (noun of time).

C. Correct: 'masjid' is an ism-e-makan (noun of place) — a place of worship.

D. Wrong: 'masjid' is not an ism-e-alam (proper noun).

Question 85 Urdu

درست ضرب المثل کی نشاندہی کریں

A. ناچ نہ جانے ٹیڑھا انگن

B. ناچ

Correct answer ✓ C. ناچ نہ جانے انگن ٹیڑھا

D. نہ انگن ٹیڑھا جانے نہ ناچ

A. Wrong: 'Naach na janay tedha angan' misplaces the words.

B. Wrong: 'Naach janay angan tedha' drops the 'na' and is ungrammatical.

C. Correct: the proverb is 'Naach na janay angan tedha' (ناچ نہ جانے انگن ٹیڑھا).

D. Wrong: 'Na angan tedha janay na naach' is a garbled ordering.

Question 86 Urdu

مرزا ظاہر دار بیگ کس کا کردار ہے

A. مرزا غالب

Correct answer ✓ B. ڈپٹی نذیر احمد

C. میر تقی میر

D. مولوی فضل الحسن

A. Wrong: Mirza Zahir Dar Beg is not a character of Ghalib.

B. Correct (printed key): Mirza Zahir Dar Beg is a character of Deputy Nazir Ahmad.

C. Wrong: he is not a character of Mir Taqi Mir.

D. Wrong: he is not a character of Maulvi Fazl-ul-Hasan. **Flag:** SINGLE-SOURCE: Mirza Zahir Dar Beg as a character of Deputy Nazir Ahmad rests on the printed key (Urdu MCQ convention) alone; the specific novel could not be independently verified.

87 Urdu

اسد اللہ خان کس کا تخلص تھا

A. میر تقی میر

B. فیض احمد فیض

Correct answer ✓ C. غالب

D. اقبال

A. Wrong: Mir Taqi Mir's takhallus was 'Mir'.

B. Wrong: Faiz Ahmed Faiz's takhallus was 'Faiz'.

C. Correct: Mirza Asadullah Khan's takhallus was 'Ghalib'.

D. Wrong: Iqbal's takhallus was 'Iqbal'.

Question 88 Urdu

ناول کس زبان کا لفظ ہے

A. عربی

Correct answer ✓ B. اطالوی

C. فارسی

D. اردو

A. Wrong: 'novel' is not from Arabic.

B. Correct: 'novel' comes from Italian 'novella'.

C. Wrong: 'novel' is not from Persian.

D. Wrong: 'novel' is not from Urdu.

89 Urdu

دیار عشق میں اپنا مقام پیدا کر کس نے کہا ہے

A. فیض احمد فیض

Correct answer ✓ B. علامہ اقبال

C. مرزا غالب

D. میر تقی میر

A. Wrong: 'Diyar-e-ishq mein apna maqam paida kar' is not Faiz's line.

B. Correct: the line 'Diyar-e-ishq mein apna maqam paida kar' is Allama Iqbal's.

C. Wrong: the line is not Ghalib's.

D. Wrong: the line is not Mir Taqi Mir's.

Question 90 Urdu

زمیندار اخبار کس نے جاری کیا

A. مرزا غالب

B. فیض احمد فیض

Correct answer ✓ C. مولانا ظفر علی خان

D. مولوی اشرف علی تھانوی

A. Wrong: Ghalib did not issue the Zamindar newspaper.

B. Wrong: Faiz did not issue the Zamindar newspaper.

C. Correct: the Zamindar newspaper was issued by Maulana Zafar Ali Khan (1903).

D. Wrong: Maulvi Ashraf Ali Thanvi did not issue Zamindar.

91 Urdu

ادمی نامہ کس کی تصنیف ہے

A. مرزا غالب

Correct answer ✓ B. نظیر اکبر ابادی

C. میر تقی میر

D. فیض احمد فیض

A. Wrong: 'Aadmi Nama' is not Ghalib's composition.

B. Correct: 'Aadmi Nama' is the famous poem of Nazir Akbarabadi.

C. Wrong: 'Aadmi Nama' is not Mir Taqi Mir's.

D. Wrong: 'Aadmi Nama' is not Faiz's.

Question 92 Mathematics

What is the result of (√2-1√2)²?

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

A. Correct: (√2 − 1/√2) = (2 − 1)/√2 = 1/√2, and (1/√2)² = 1/2.

B. Wrong: 1 is not the result of the squaring.

C. Wrong: 1/√2 is the value before squaring, not after.

D. Wrong: this repeats the expression instead of evaluating it. **Flag:** Stem prints '(√2-1√2)²' — read as (√2 − 1/√2)²; the working below uses that reading, which yields the keyed answer 1/2.

93 Mathematics

What is the result of expression 3√64+3?

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

A. Wrong: 5 is neither the cube root nor the sum.

B. Wrong: 4 is the cube root of 64 alone, before adding 3.

C. Correct: ∛64 = 4, and 4 + 3 = 7.

D. Wrong: 6 is not the result. **Flag:** Stem prints '3√64+3' — read as the cube root of 64 plus 3 (∛64 + 3 = 7).

Question 94 Mathematics

Which of the following expression gives the value 3.275 ?

- A. 3 11/40 ✓ **Correct answer**
- B. 3.73
- C. 3.45
- D. 3.65

A. Correct: 11/40 = 0.275, so 3 11/40 = 3.275.

B. Wrong: 3.73 is not 3.275.

C. Wrong: 3.45 is not 3.275.

D. Wrong: 3.65 is not 3.275.

95 Mathematics

Which of the following sets of lengths cannot be the sides of a right Triangle ?

- A. 3 cm, 4cm,5cm
- B. 1cm,2cm,3cm ✓ **Correct answer**
- C. 12cm,16cm,20cm
- D. 6cm, 8cm ,10cm

A. Wrong: 3-4-5 is the classic Pythagorean triple (9 + 16 = 25).

B. Correct: $1^2 + 2^2 = 5$, which is not $3^2 = 9$, so 1, 2, 3 cannot be the sides of a right triangle.

C. Wrong: 12-16-20 is the 3-4-5 triple scaled by 4 (144 + 256 = 400).

D. Wrong: 6-8-10 is the 3-4-5 triple scaled by 2 (36 + 64 = 100).

Question 96 Mathematics

The sum of the ages of a father and his son is 50 years. 10 years ago the father's age was 9 times that of his son . What is the present age of the father ?

- A. 28
- B. 32
- C. 37 ✓ **Correct answer**
- D. 45

A. Wrong: 28 does not satisfy the equations.

B. Wrong: 32 does not satisfy the equations.

C. Correct: let the son be x; the father is 50 − x. Ten years ago (50 − x − 10) = 9(x − 10), so 40 − x = 9x − 90, 10x = 130, x = 13, and the father is 37.

D. Wrong: 45 does not satisfy the equations.

97 Mathematics

The first second and fourth terms of a proportion are 16,24, and 54 respectively. What is its third term ?

- A. 27
- B. 36 ✓ **Correct answer**
- C. 18
- D. 48

A. Wrong: 27 does not satisfy 16:24 = x:54.

B. Correct: x = 16 × 54 / 24 = 36.

C. Wrong: 18 does not satisfy the proportion.

D. Wrong: 48 does not satisfy the proportion.

Question 98 Mathematics

If an is the nth term what is the LCM of the 6th and 7th terms of 3n+2 ?

- A. 460 ✓ **Correct answer**
- B. 840
- C. 210
- D. 360

A. Correct: a_n = 3n + 2 gives 6th term 20 and 7th term 23; 20 and 23 are coprime, so their LCM is 20 × 23 = 460.

B. Wrong: 840 is not the LCM of 20 and 23.

C. Wrong: 210 is not the LCM of 20 and 23.

D. Wrong: 360 is not the LCM of 20 and 23.

99 Mathematics

What is the formula for compound interest rate where S represents the final amount P is the initial investment amount R is the annual interest rate n is the number of times interest is compounded per year and T is the time in years ?

- A. S=P(1+r/n)(nt) ✓ **Correct answer**
- B. S=P(1+rn)
- C. S=P+rt
- D. S=P(1+rn)nt

A. Correct: compound interest is S = P(1 + r/n) raised to the power nt.

B. Wrong: S = P(1 + rn) is a simple-interest form, not compound interest.

C. Wrong: S = P + rt is not the compound-interest formula.

D. Wrong: S = P(1 + rn)nt is not a standard formula. **Flag:** The formula is printed without the exponent marker — 'S=P(1+r/n)(nt)' — read as S = P(1 + r/n) raised to the power nt. Option D also carries trailing page-navigation text in the source ('Past Papers PPSC 2025 …'), excluded here.

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