Inspector (Investigation), Federal Investigation Agency (FIA) (BS-16), 2022, Batch 2 — 2022 · Solved Past Paper

Body: Federal Public Service Commission (FPSC) · **Post:** Inspector (Investigation), Federal Investigation Agency (FIA) (BS-16), 2022, Batch 2 · **Year:** 2022 · **Questions:** 128 in the original paper — **125 solved and verified**, 3 excluded as defective (Q42, Q50, Q66) · **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 2022 sitting.

Source note: testpointpk.com reproduction, 'FIA Inspector Past Paper 26-7-2022 Batch-2 Mcqs' (paper-mcqs/781, all 13 pages, fetched 13 Nov 2026), 128 items. Imtiaz Shahid, Advanced FPSC & Other Federal Model Papers, Ed 61 (2026), Model Paper 40, contents p. 274. The reproduction serves 128 items while the FPSC paper is 100 MCQs; the book's exact question selection is not verifiable from any source. 121 VERIFIED + 4 PICK-ONE (Q14, Q43, Q106, Q111) + 3 DEFECTIVE-excluded (Q42, Q50, Q66), all decided by the assistant under the owner's 8 Nov 2026 delegation. Four printed keys corrected openly (Q3, Q48, Q91, Q115). Dedup 13 Nov 2026 vs live index (713 papers): 6/128 exact stem matches (4%), scattered across unrelated papers, max 2 per paper; format-tolerant fuzzy vs 37bu and 37aii stems: 0 pairs >= 0.85 — not a duplicate.

Question 1 Everyday Science

Electromagnetic waves travel in vacuum with speeds that are?

ater than speed of light

- B. Equal to speed of light ✓ **Correct answer**
- C. Near to speed of light
- D. None of these

A. Wrong: nothing travels faster than light in a vacuum.

B. Correct: electromagnetic waves travel through a vacuum at c, the speed of light.

C. Wrong: the speed is exactly c, not merely near it.

D. Wrong, because B is correct.

Question 2 General Knowledge

Where is the headquarters of United Nations Organization (UNO) located?

- A. Washington
- B. Florida
- C. New York ✓ **Correct answer**
- D. None of these

A. Wrong: Washington is the capital of the USA, not the seat of the UN.

B. Wrong: Florida is a US state with no UN headquarters.

C. Correct: the United Nations headquarters is in New York City.

D. Wrong, because C is correct.

Question 3 Current Affairs

Who is the Current Chief Justice of Pakistan (CJP)?

- A. Justice Umar Ata Bandial ✓ **Correct answer**
- B. Justice Qazi Faez Isa
- C. Justice Yahya Afridi

A. Correct: he was Chief Justice of Pakistan on the sitting date, 26 July 2022 (in office from 2 February 2022 to 16 September 2023).

B. Wrong: he became Chief Justice in September 2023, after this sitting.

C. Wrong: he became Chief Justice in October 2024, after this sitting.

D. Wrong, because A is correct.

Note: Note: the reproduction keys C (Yahya Afridi), the later holder; the sitting-date holder A is filed under the exam-date standard.

Question 4 Pakistan Studies

Term and tenure of Senate membership are _____ years in Pakistan.

- A. Four years
- B. Five years
- C. Six years ✓ **Correct answer**
- D. None of these

A. Wrong: four years is not the Senate term.

B. Wrong: five years is the National Assembly's term, not the Senate's.

C. Correct: a Pakistani senator serves a six-year term.

D. Wrong, because C is correct.

Question 5 Mathematics

The ratio between the perimeter and the breadth of a rectangle is 5:1. If the area of the rectangle is 216 sq. cm, what is the length of the rectangle?

- A. 14 cm

- C. 18 cm ✓ **Correct answer**
- D. None of these

A. Wrong: with breadth 12 cm the length must be 18 cm, not 14 cm.

B. Wrong: 16 cm does not satisfy the 5:1 perimeter-to-breadth ratio.

C. Correct: 2(length + breadth) / breadth = 5 gives length = 1.5 × breadth, and length × breadth = 216 gives breadth 12 cm and length 18 cm.

D. Wrong, because C is correct.

Question 6 Current Affairs

Who is the Current Secretary General of United Nation (UNO)?

- A. Kofi Annan
- B. Ban Ki-moon
- C. António Guterres ✓ **Correct answer**
- D. None of these

A. Wrong: Annan was Secretary-General from 1997 to 2006.

B. Wrong: Ban Ki-moon served from 2007 to 2016.

C. Correct: Guterres has been UN Secretary-General since 1 January 2017.

D. Wrong, because C is correct.

Question 7 Current Affairs

What is the name of current Crown prince of Saudi Arabia?

- A. Mohammed bin Salman ✓ **Correct answer**
- B. Muhammad bin Nayof
- C. Nayef bin Muhammad

A. Correct: Mohammed bin Salman has been Crown Prince of Saudi Arabia since June 2017.

B. Wrong: Muhammad bin Nayef was Crown Prince before him, until June 2017.

C. Wrong: this is not the name of the Crown Prince.

D. Wrong, because A is correct.

Question 8 General Knowledge

When is Malala Day celebrated?

- A. 12 May every year
- B. 12 December every year
- C. 12 July every year ✓ **Correct answer**
- D. None of these

A. Wrong: 12 May is not Malala Day.

B. Wrong: 12 December is not Malala Day.

C. Correct: Malala Day is observed on 12 July, Malala Yousafzai's birthday, as declared by the United Nations.

D. Wrong, because C is correct.

Question 9 Pakistan Studies

Which is the largest export partner of Pakistan?

- A. Japan
- B. Iran
- C. America ✓ **Correct answer**
- D. Nepal

pan is a minor export destination for Pakistan.

B. Wrong: Iran is not Pakistan's largest export partner.

C. Correct: the United States of America is Pakistan's largest export market.

D. Wrong: Nepal is a very small export destination for Pakistan.

Question 10 Islamic Studies

What is the punishment of Had-e-Qazf (false Accusation)?

- A. 50 Lashes
- B. 70 Lashes
- C. 80 Lashes ✓ **Correct answer**
- D. 90 Lashes

A. Wrong: 50 lashes is not the Hadd for Qazf.

B. Wrong: 70 lashes is not the Hadd for Qazf.

C. Correct: the Quran (24:4) prescribes eighty lashes for false accusation of adultery (Qazf).

D. Wrong: 90 lashes is not the Hadd for Qazf.

Question 11 Geography

The largest country in the world by area is?

- A. USA
- B. Russia ✓ **Correct answer**
- C. Australia
- D. China

A. Wrong: the USA is the third or fourth largest country, not the largest.

B. Correct: Russia, at about 17 million square kilometres, is the world's largest country by

C. Wrong: Australia is the sixth largest country.

D. Wrong: China is the third or fourth largest country, smaller than Russia.

Question 12 General Knowledge

Daughter of East was written by?

- A. Fatima Jinnah
- B. Benazir Bhutto ✓ **Correct answer**
- C. Ghanwa Bhutto
- D. Begum Raina Liaqat Ali Khan

A. Wrong: Fatima Jinnah wrote "My Brother", not "Daughter of the East".

B. Correct: "Daughter of the East" is Benazir Bhutto's autobiography.

C. Wrong: Ghanwa Bhutto did not write this book.

D. Wrong: she did not write this book.

Question 13 Everyday Science

The velocity (speed) of sound is maximum in? Steel, Air, Water, Vacuum

- A. Air
- B. Glass
- C. Water
- D. Steel ✓ **Correct answer**

A. Wrong: sound travels slowest in gases such as air, about 343 m/s.

B. Wrong: sound is fast in glass but faster in steel.

C. Wrong: sound travels at about 1,480 m/s in water, slower than in steel.

sound travels fastest in solids, and among the options steel carries it fastest, about 5,000 m/s.

Question 14 General Knowledge

The headquarter of United Nations located in which country?

- A. Germany
- B. England
- C. New York ✓ **Correct answer**
- D. France

A. Wrong: the UN headquarters is not in Germany.

B. Wrong: the UN headquarters is not in England.

C. Correct as intended: the United Nations headquarters is in New York City, USA; New York is a city, not a country, but it is the intended answer.

D. Wrong: the UN headquarters is not in France.

Question 15 Mathematics

Greatest Common Divisor of two numbers is 8 while their Least Common Multiple is 144. If one number is 16, then the other number is _____?

- A. 44
- B. 72 ✓ **Correct answer**
- C. 122
- D. none

A. Wrong: 44 does not satisfy GCD × LCM = product of the numbers.

B. Correct: for two numbers, their product equals GCD × LCM, so the other number is 8 × 144 / 16 = 72.

12 does not satisfy the GCD-LCM product rule.

D. Wrong, because B is correct.

Question 16 Pakistan Studies

Kartarpur Corridor is in the district of _____?

- A. Narowal ✓ **Correct answer**
- B. Sialkot
- C. Kasur
- D. Lahore

A. Correct: the Kartarpur Corridor and Gurdwara Darbar Sahib are in Narowal district, Punjab.

B. Wrong: Sialkot is a neighbouring district, not the corridor's district.

C. Wrong: Kasur is not the corridor's district.

D. Wrong: Lahore is not the corridor's district.

Question 17 Pakistan Studies

Who was the first Muslim governor of the province of Punjab?

- A. Ghulam Mustafa Khar
- B. Riaz Hussain
- C. Abdur Rab Nishtar ✓ **Correct answer**
- D. None of these

A. Wrong: Khar was a later governor of Punjab, not the first Muslim one.

B. Wrong: Riaz Hussain was a military governor, not the first Muslim governor.

C. Correct: after the British governor Sir Francis Mudie, Abdur Rab Nishtar (1949–1951) was the first Muslim governor of Punjab.

Question 18 Computer Science

Shimmer, Sparkle text, Blinking Background etc. are known as _____?

- A. Word art
- B. Font styles
- C. Text effects ✓ **Correct answer**
- D. Font effects

A. Wrong: WordArt is decorative stylised text, not these animation effects.

B. Wrong: font styles are bold, italic and underline, not shimmer or blinking.

C. Correct: in MS Word, shimmer, sparkle text and blinking background are text effects.

D. Wrong: font effects cover strikethrough, superscript and similar formatting, not these animations.

Question 19 Mathematics

The number of the fifth part increased by 4 equal to its fourth part reduced by 10. find the number

- A. 200
- B. 240
- C. 280 ✓ **Correct answer**
- D. none

A. Wrong: a fifth of 200 plus 4 is 44, while a fourth of 200 minus 10 is 40.

B. Wrong: a fifth of 240 plus 4 is 52, while a fourth of 240 minus 10 is 50.

C. Correct: a fifth of 280 plus 4 is 60, and a fourth of 280 minus 10 is 60, so the two sides are equal.

ecause C is correct.

Question 20 Everyday Science

Which one has the longest wavelength?Blue ,Yellow ,Red

- A. Blue
- B. Yellow
- C. Red ✓ **Correct answer**
- D. None of these

A. Wrong: blue light has a short wavelength, about 450–495 nm.

B. Wrong: yellow light has a medium wavelength, about 570–590 nm.

C. Correct: of the three, red light has the longest wavelength, about 620–750 nm.

D. Wrong, because C is correct.

Question 21 Everyday Science

Sunlight is made of how many colours?

- A. 6 colours
- B. 5 colours
- C. 7 colours ✓ **Correct answer**
- D. 4 colours
- E. None of these

A. Wrong: sunlight is conventionally split into seven colours.

B. Wrong: five is too few.

C. Correct: sunlight disperses into the seven colours of the spectrum (violet, indigo, blue, green, yellow, orange, red).

D. Wrong: four is too few.

cause C is correct.

Question 22 General Knowledge

Who is the writer of “Udas Naslain”?

- A. Mukhtar Masood
- B. Abdullah Hussain ✓ **Correct answer**
- C. Mumtaz Mufti
- D. Mirza Ghalib

A. Wrong: Mukhtar Masood wrote "Awaz-e-Dost", not "Udas Naslain".

B. Correct: "Udas Naslain" (1963) is the famous novel by Abdullah Hussain.

C. Wrong: Mumtaz Mufti wrote "Ali Pur Ka Aeeli", not "Udas Naslain".

D. Wrong: Ghalib was a 19th-century poet, not the novelist of "Udas Naslain".

Question 23 Geography

Deltas plain of Pakistan starts from _____?

- A. Thatta ✓ **Correct answer**
- B. Sukkur
- C. Karachi
- D. Jhang

A. Correct: the Indus delta plain begins near Thatta in Sindh, where the river fans out towards the Arabian Sea.

B. Wrong: Sukkur is far upstream of the delta.

C. Wrong: Karachi lies at the coast but the delta plain starts at Thatta.

D. Wrong: Jhang is in central Punjab, nowhere near the delta.

24 English

If I _____ her name, I would tell you.

- A. Know
- B. Known
- C. Knew ✓ **Correct answer**
- D. None of these

A. Wrong: the second conditional needs the past simple, not the present simple.

B. Wrong: "known" is a past participle and does not fit here.

C. Correct: "If I knew her name, I would tell you" is the correct second conditional.

D. Wrong, because C is correct.

Question 25 Pakistan Studies

What was the Tenure of President Muhammad Ayoub Khan?

- A. 27th October 1958 to 25th March 1969 ✓ **Correct answer**
- B. 27th October 1956 to 25th March 1965
- C. 27th October 1958 to 25 March 1965
- D. None of the above

A. Correct: Ayub Khan took power on 27 October 1958 and resigned on 25 March 1969.

B. Wrong: Ayub Khan was not president in 1956.

C. Wrong: his rule did not end in 1965.

D. Wrong, because A is correct.

Question 26 Geography

Vienna is the capital of which country?

tria ✓ **Correct answer**

- B. Australia
- C. England
- D. Japan

A. Correct: Vienna is the capital of Austria.

B. Wrong: Australia's capital is Canberra, and Vienna is not in Australia.

C. Wrong: England's capital is London.

D. Wrong: Japan's capital is Tokyo.

Question 27 Islamic Studies

Ada Bin Hatam Tai embraced Islam in _____?

- A. 4 Hijri
- B. 5 Hijri
- C. 9 Hijri ✓ **Correct answer**
- D. None of these

A. Wrong: Adi ibn Hatim did not embrace Islam in 4 AH.

B. Wrong: he did not embrace Islam in 5 AH.

C. Correct: Adi ibn Hatim al-Tai embraced Islam in 9 AH, the Year of Delegations.

D. Wrong, because C is correct.

Question 28 Pakistan Studies

Liaquat - Nehru pact was announced at Delhi in _____?

- A. April 8, 1950 ✓ **Correct answer**
- B. May 8, 1950
- C. June 8, 1950

A. Correct: the Liaquat–Nehru Pact was signed in Delhi on 8 April 1950.

B. Wrong: the pact was signed a month earlier.

C. Wrong: the pact was signed two months earlier.

D. Wrong, because A is correct.

Question 29 Computer Science

Which of the following files have an 'mpg' extension?

- A. Audio
- B. Image
- C. Video ✓ **Correct answer**
- D. None of these

A. Wrong: audio files use extensions such as mp3, not mpg.

B. Wrong: image files use extensions such as jpg or png, not mpg.

C. Correct: .mpg (MPEG) is a video file format.

D. Wrong, because C is correct.

Question 30 Everyday Science

Television Radio Phone spread signals through _____?

- A. Sound Waves
- B. Electromagnetic Waves ✓ **Correct answer**
- C. Heat Waves
- D. None of these
- E. All of these

levision, radio and phones do not broadcast by sound waves.

B. Correct: television, radio and mobile phones all transmit signals as electromagnetic (radio) waves.

C. Wrong: heat waves are not the transmission medium.

D. Wrong, because B is correct.

E. Wrong: only electromagnetic waves apply.

Question 31 General Knowledge

Rehman Baba was a Sufi poet of _____ era.

- A. British
- B. Salateen
- C. Mughal ✓ **Correct answer**
- D. Muhammad Bin Qasim
- E. None of these

A. Wrong: Rehman Baba lived in the 17th century, long before British rule.

B. Wrong: the Sultanate period had ended before his time.

C. Correct: Rehman Baba (1632–1706) lived in the Mughal era.

D. Wrong: Muhammad bin Qasim came in the 8th century, nine centuries earlier.

E. Wrong, because C is correct.

Question 32 Current Affairs

USA 46th President Joe Biden belong to which political party?

- A. Democratic Party ✓ **Correct answer**
- B. Communist Party USA

ublican Party

- D. Labor Party.

A. Correct: Joe Biden, the 46th US President, is a Democrat.

B. Wrong: Biden has never belonged to the Communist Party.

C. Wrong: Biden is not a Republican.

D. Wrong: the USA has no major Labor Party and Biden is not a member of one.

Question 33 General Knowledge

Hazrat Sultan Bahu was the Sufi Poet in _____ era.

- A. Salateen
- B. Mughal ✓ **Correct answer**
- C. Salah Uddin Ayoubi
- D. None of these

A. Wrong: Sultan Bahu lived after the Sultanate period.

B. Correct: Sultan Bahu (1630–1691) lived in the Mughal era.

C. Wrong: Salahuddin Ayyubi lived in the 12th century, five centuries earlier.

D. Wrong, because B is correct.

Question 34 General Knowledge

The region of “Tibet” is currently under control of _____?

- A. India
- B. China ✓ **Correct answer**
- C. Pakistan
- D. Tajikistan

dia does not control Tibet.

B. Correct: Tibet is an autonomous region of China.

C. Wrong: Pakistan does not control Tibet.

D. Wrong: Tajikistan does not control Tibet.

Question 35 Mathematics

Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute. At this rate, how many bottles could 10 such machines produce in 4 minutes?

- A. 1500
- B. 1600
- C. 1700
- D. none ✓ **Correct answer**

A. Wrong: 10 machines make 450 bottles a minute, so 1,500 is too few for 4 minutes.

B. Wrong: 1,600 is not the 4-minute output of 10 machines.

C. Wrong: 1,700 is not the 4-minute output of 10 machines.

D. Correct: one machine makes 270 / 6 = 45 bottles a minute, so 10 machines make 450 a minute and 1,800 in 4 minutes, which is none of the listed values.

Question 36 Mathematics

A number consists of 3 digits whose sum is 10. The middle digit is equal to

- A. 155
- B. 189
- C. 253 ✓ **Correct answer**
- D. none

s digits sum to 11, not 10.

B. Wrong: its digits sum to 18, not 10.

C. Correct: its digits sum to 2 + 5 + 3 = 10, and the middle digit 5 equals the sum of the other two digits (2 + 3); it is also the number in the classic problem whose digits reversed increase it by 99.

D. Wrong, because C is correct.

Note: Note: the stem is truncated in the reproduction (it ends mid-sentence); the answer is uniquely determined by the conditions that are printed.

Question 37 Mathematics

To gain 10% on selling a sample of milk at the cost price of pure milk the quantity of water to be mixed with 50 kg of pure milk is

- A. 3 kg
- B. 5 kg ✓ **Correct answer**
- C. 6 kg
- D. none

A. Wrong: 3 kg of water gives only a 6% gain.

B. Correct: selling 55 kg of mixture at the price of pure milk gains 5 / 50 = 10%.

C. Wrong: 6 kg of water gives a 12% gain.

D. Wrong, because B is correct.

Question 38 Mathematics

A number when multiplied by 13 is increased by 180. The number is

- A. 4
- B. 8

- D. none ✓ **Correct answer**

A. Wrong: 13 × 4 = 52, which is 48 more than 4, not 180.

B. Wrong: 13 × 8 = 104, which is 96 more than 8, not 180.

C. Wrong: 13 × 12 = 156, which is 144 more than 12, not 180.

D. Correct: 13x − x = 180 gives 12x = 180, so x = 15, which is none of the listed values.

Question 39 Mathematics

The difference between a two-digit number and the number obtained by interchanging the position of its digits is 36. what is the difference between the two digits of that number?

- A. 4 ✓ **Correct answer**
- B. 8
- C. 16
- D. none

A. Correct: reversing the digits changes the number by 9 times the difference of the digits, so 9 × difference = 36 and the difference is 4.

B. Wrong: a digit difference of 8 would change the number by 72.

C. Wrong: 16 cannot be the difference of two single digits.

D. Wrong, because A is correct.

Question 40 Mathematics

The value of log2 16 is

- A. 2
- B. 4 ✓ **Correct answer**

- D. none

A. Wrong: $2^2 = 4$, not 16.

B. Correct: $\log_2 16 = 4$ because $2^4 = 16$.

C. Wrong: $2^6 = 64$, not 16.

D. Wrong, because B is correct.

Question 41 Mathematics

The ratio between two numbers is 3:5, If each number is increased by 4, the ratio becomes 2-3. Find the numbers.

- A. 18, 30
- B. 12, 20 ✓ **Correct answer**
- C. 24, 40
- D. none

A. Wrong: adding 4 to each gives 22 and 34, a ratio of 11:17, not 2:3.

B. Correct: the numbers are in ratio 3:5, and (12 + 4) : (20 + 4) = 16:24 = 2:3.

C. Wrong: adding 4 to each gives 28 and 44, a ratio of 7:11, not 2:3.

D. Wrong, because B is correct.

Question 42 Mathematics

If the selling price of 40 articles is equal to the cost price of 50 articles, the loss or gain percentage is

- A. 25% gan
- B. 25% gain
- C. 20% gain

No answer is given for this question, and none is taught. DEFECTIVE — EXCLUDED, no answer taught (decided by assistant under owner's 8 Nov delegation: the correct value, 25% gain, appears twice — A as "25% gan" and B as "25% gain" — so two options are correct, and the printed key C (20% gain) is wrong: selling 40 articles for the cost of 50 gains 10 on a cost of 40, i.e. 25%.)

Question 43 Mathematics

The three geometric means between 2 and 31 are

- A. 6,8,10
- B. 4,8,16 ✓ **Correct answer**
- C. 6,10,14
- D. none

A. Wrong: 6, 8 and 10 are in arithmetic, not geometric, progression.

B. Correct as intended: the classic problem is the three geometric means between 2 and 32, which are 4, 8 and 16 (common ratio 2); the stem prints 31, evidently a misprint for 32.

C. Wrong: 6, 10 and 14 are not in geometric progression.

D. Wrong, because B is the intended answer.

Question 44 Mathematics

A and B enter into a partnership with respective capitals of rs 20,000 and rs 40,000. At the end of the year, the total profit s rs 33,000. if A receives rs 15, 000 as both his salary and profit, then what is his salary?

- A. 2000
- B. 3000
- C. 4000 ✓ **Correct answer**

A. Wrong: A's profit share alone is 11,000, so a salary of 2,000 would total only 13,000.

B. Wrong: a salary of 3,000 would total 14,000 with his profit share.

C. Correct: profit is shared 20,000:40,000 = 1:2, so A receives 33,000 / 3 = 11,000 as profit; he receives 15,000 in total, so his salary is 15,000 − 11,000 = 4,000.

D. Wrong, because C is correct.

Question 45 Mathematics

The 3rd proportional to 18 and 54 is?

- A. 162 ✓ **Correct answer**
- B. 144
- C. 972
- D. none

A. Correct: the third proportional x satisfies 18 : 54 = 54 : x, so x = 54 × 54 / 18 = 162.

B. Wrong: 144 does not satisfy the proportion.

C. Wrong: 972 is 18 × 54, not the third proportional.

D. Wrong, because A is correct.

Question 46 Mathematics

A machine depreciates at the rate of 10% of its value at the beginning of a year. If the present value of a machine is rs 4000, find its value after 3 years.

- A. 2916 ✓ **Correct answer**
- B. 3916
- C. 4916
- D. none

After 3 years the value is $4000 \times 0.9^3 = 4000 \times 0.729 = 2916$.

B. Wrong: 3,916 is not 4000×0.9^3.

C. Wrong: the value falls, so it cannot exceed 4,000.

D. Wrong, because A is correct.

Question 47 Mathematics

1/5 part of an amount was given at 3% interest, 1/3 part was given at 5% simple interest 2/5 part at 9% simple interest, and the remaining part at 11% simple interest. The total interest received was Rs 297. How much amount was originally given?

- A. 3500
- B. 4500 ✓ **Correct answer**
- C. 5500
- D. none

A. Wrong: the interest on 3,500 at the stated rates is 231, not 297.

B. Correct: the interest is (1/5 × 3% + 1/3 × 5% + 2/5 × 9% + 1/15 × 11%) of the amount = 6.6% of it, and 297 / 0.066 = 4,500.

C. Wrong: the interest on 5,500 would be 363, not 297.

D. Wrong, because B is correct.

Question 48 Mathematics

Alina gets a discount of 20% on Rs 3600 ven, Since she pays Sach she gets an additional 2% discount too. How much does she pay?

- A. 2338
- B. 2646
- C. 2880

ıe ✓ Correct answer

A. Wrong: 2,338 is not the price after the two discounts.

B. Wrong: 2,646 is not the price after the two discounts (it is the reproduction's key, but it does not follow from the stated discounts).

C. Wrong: 2,880 is the price after the 20% discount alone, before the further 2%.

D. Correct: 3,600 less 20% is 2,880, and a further 2% off 2,880 is 2,822.40, which is none of the listed values.

Note: Note: the reproduction keys B (2646); the worked price is 2822.40, so D is filed.

Question 49 Mathematics

A scores 10% and fails by 30 marks. B scores 40% marks and gets 30 marks more than the minimum marks needed to pass the exam. what are the maximum marks for the exam?

- A. 200 ✓ **Correct answer**
- B. 300
- C. 400
- D. none

A. Correct: if the maximum is M, the pass mark is 10% of M plus 30 and also 40% of M minus 30, so 0.3M = 60 and M = 200.

B. Wrong: with M = 300 the two pass-mark expressions differ (60 versus 90).

C. Wrong: with M = 400 the two pass-mark expressions differ (70 versus 130).

D. Wrong, because A is correct.

If among 200 students, 105 like pizza and d134 like burgers, then the number of students who like only burger can possibly be

- A. 93
- B. 94
- C. 95
- D. none

No answer is given for this question, and none is taught. DEFECTIVE — EXCLUDED, no answer taught (decided by assistant under owner's 8 Nov delegation: the students who like both can be anywhere from 39 to 105, so the number who like only burgers can be anywhere from 29 to 95 — 93, 94 and 95 are all possible answers, so there is no unique answer.)

Question 51 Everyday Science

An organism that lives on or in a host, and caused it harm while it takes its nutrients is called:

- A. host
- B. parasite ✓ **Correct answer**
- C. cell
- D. none

A. Wrong: the host is the organism lived on, not the one doing the harm.

B. Correct: a parasite lives on or in a host, harms it and takes nutrients from it.

C. Wrong: a cell is the basic unit of life, not this relationship.

D. Wrong, because B is correct.

Question 52 Everyday Science

The waves in which the particles of the medium travel in the same direction as the waves, are?

- A. Longitudinal wave ✓ **Correct answer**
- B. Electromagnetic Wave
- C. Transverse wave
- D. None of these

A. Correct: in a longitudinal wave the particles of the medium vibrate in the same direction as the wave travels (as in sound).

B. Wrong: electromagnetic waves need no medium and are transverse.

C. Wrong: in a transverse wave the particles vibrate at right angles to the direction of travel.

D. Wrong, because A is correct.

Question 53 Everyday Science

Radio waves are?

- A. Sound wave
- B. Electromagnetic waves ✓ **Correct answer**
- C. Heat waves
- D. None of these

A. Wrong: sound waves are mechanical vibrations, not radio waves.

B. Correct: radio waves are a form of electromagnetic radiation.

C. Wrong: heat is transferred by infrared radiation, not by radio waves.

D. Wrong, because B is correct.

54 Everyday Science

A person climbing a hill bends forward in order to?

- A. Avoid slipping
- B. Increase speed
- C. Increase Stability ✓ **Correct answer**
- D. None of these

A. Wrong: bending forward does not primarily prevent slipping.

B. Wrong: bending forward does not increase climbing speed.

C. Correct: leaning forward keeps the body's centre of gravity over the feet, increasing stability on a slope.

D. Wrong, because C is correct.

Question 55 English

The fight started when one of the drivers made a rude ____ at someone.

- A. Posture
- B. Stance
- C. Gesture ✓ **Correct answer**
- D. None of these

A. Wrong: a posture is a way of standing, not a rude signal.

B. Wrong: a stance is a position taken, not the rude act itself.

C. Correct: a rude gesture is an offensive movement, such as an insulting hand sign.

D. Wrong, because C is correct.

56 English

___does she look today

- A. How ✓ **Correct answer**
- B. What
- C. Who
- D. None of these

A. Correct: "How does she look today?" asks about her appearance.

B. Wrong: "What does she look" is not the idiomatic question.

C. Wrong: "Who does she look" asks about a person, not her appearance.

D. Wrong, because A is correct.

Question 57 English

If you had asked me, I ___ told you

- A. had
- B. would have ✓ **Correct answer**
- C. will have
- D. None of these

A. Wrong: "I had told you" does not complete the third conditional.

B. Correct: "If you had asked me, I would have told you" is the correct third conditional.

C. Wrong: "will have" does not belong in a past unreal conditional.

D. Wrong, because B is correct.

Question 58 English

___children who suffer in broken marriages.

- B. it is ✓ **Correct answer**
- C. it was
- D. None of these

A. Wrong: "its" is a possessive and cannot start this cleft sentence.

B. Correct: "It is children who suffer in broken marriages" is the correct cleft construction.

C. Wrong: the present tense "is" fits the general statement, not "was".

D. Wrong, because B is correct.

Question 59 English

She realized that she ___ turned the lights off.

- A. Haven't
- B. Hadn't ✓ **Correct answer**
- C. Didn't
- D. None of these

A. Wrong: "haven't" is present perfect and does not fit the past-tense reporting.

B. Correct: "She realized that she hadn't turned the lights off" uses the past perfect for the earlier action.

C. Wrong: "didn't" is possible in speech but the past perfect is the required form here.

D. Wrong, because B is correct.

Question 60 English

My new home isn't _____ finished.

- A. All together
- B. Still by together

gether ✓ **Correct answer**

- D. None of these

A. Wrong: "all together" means everyone together, not "completely".

B. Wrong: this is not an English phrase.

C. Correct: "altogether" means completely, so "isn't altogether finished" means not completely finished.

D. Wrong, because C is correct.

Question 61 English

We do not allow people_____ in the kitchen

- A. Smoke
- B. Smoking
- C. To smoke ✓ **Correct answer**
- D. None of these

A. Wrong: "allow people smoke" is ungrammatical.

B. Wrong: "allow people smoking" is ungrammatical.

C. Correct: "allow people to smoke" is the correct infinitive construction.

D. Wrong, because C is correct.

Question 62 English

Most people care____ other people's opinion.

- A. About ✓ **Correct answer**
- B. For
- C. To
- D. None of these

he idiom is "care about" an opinion.

B. Wrong: "care for" means to like or to look after, not to be concerned about an opinion.

C. Wrong: "care to" does not take an opinion as its object.

D. Wrong, because A is correct.

Question 63 English

You are not___clever as you think you are.

- A. Halves as
- B. Half as ✓ **Correct answer**
- C. Much
- D. None of these

A. Wrong: "halves" is a plural noun, not the adverb needed here.

B. Correct: "not half as clever as you think" is the correct idiom.

C. Wrong: "not much clever" is ungrammatical.

D. Wrong, because B is correct.

Question 64 Pakistan Studies

Daily Nawa-i-Waqt newspaper was launched in the year:

- A. 1948
- B. 1941
- C. 1944
- D. 1940 ✓ **Correct answer**
- E. None of these

A. Wrong: Nawa-i-Waqt was launched before 1948.

e paper was launched a year earlier.

C. Wrong: the paper was launched four years earlier.

D. Correct: the Daily Nawa-i-Waqt was founded by Hamid Nizami on 22 March 1940.

E. Wrong, because D is correct.

Question 65 Current Affairs

Pakistan and Turkey will jointly produce a television series on the life of_____?

- A. Ottaman Empire
- B. Muhammad Bin Qasim
- C. Tipu Sultan
- D. Salahuddin Ayubi ✓ **Correct answer**

A. Wrong: the announced joint series was about a person, not the Ottoman Empire.

B. Wrong: the joint series was not about Muhammad bin Qasim.

C. Wrong: the joint series was not about Tipu Sultan.

D. Correct: Pakistan and Turkey announced a joint television series on the life of Salahuddin Ayyubi.

Question 66 Current Affairs

Where G7 (Group of Seven) summit to be held in 2022?

- A. France
- B. Germany
- C. USA
- D. Japan
- E. Germany

No answer is given for this question, and none is taught. DEFECTIVE — EXCLUDED, no

ht (decided by assistant under owner's 8 Nov delegation: Germany appears as both B and E, so two options are correct — the 2022 G7 summit was held at Schloss Elmau, Germany — and no single key can be asserted.)

Question 67 Pakistan Studies

The Last Hindu ruler of the Sub-continent was?

- A. Raja Prithvi Raj ✓ **Correct answer**
- B. Raja Dahir
- C. Raja Jay Pal
- D. None of these

A. Correct: Prithviraj Chauhan, defeated in 1192, is conventionally called the last Hindu ruler of the subcontinent.

B. Wrong: Raja Dahir ruled Sindh in the 8th century, centuries earlier.

C. Wrong: Jayapala of the Hindu Shahis ruled earlier, in the 10th–11th centuries.

D. Wrong, because A is correct.

Question 68 Everyday Science

Burning fossils fuels produces:

- A. Oxygen
- B. Carbon dioxide ✓ **Correct answer**
- C. Hydrogen
- D. None of these
- E. All of these

A. Wrong: burning consumes oxygen rather than producing it.

B. Correct: burning fossil fuels oxidises carbon and produces carbon dioxide.

ydrogen is not a product of burning fossil fuels.

D. Wrong, because B is correct.

E. Wrong: only carbon dioxide is produced.

Question 69 Pakistan Studies

The seats of national assembly are divided among provinces on the basis of ?

- A. Population ✓ **Correct answer**
- B. Resources
- C. Development
- D. All of these
- E. None of these

A. Correct: National Assembly seats are allocated to the provinces in proportion to population.

B. Wrong: seats are not divided by resources.

C. Wrong: seats are not divided by level of development.

D. Wrong: only population is the basis.

E. Wrong, because A is correct.

Question 70 Current Affairs

Which of the following countries embroidery was added to UNESCO cultural heritage list?

- A. Iran
- B. Pakistan
- C. Palestine ✓ **Correct answer**
- D. Iraq

A. Wrong: the embroidery inscribed in 2021 was not Iran's.

B. Wrong: the embroidery inscribed in 2021 was not Pakistan's.

C. Correct: "The art of embroidery in Palestine, practices, skills, knowledge and rituals" was inscribed on UNESCO's Representative List in 2021.

D. Wrong: the embroidery inscribed in 2021 was not Iraq's.

E. Wrong: the embroidery inscribed in 2021 was not Afghanistan's.

Question 71 Current Affairs

Which state is not a member of Non-Proliferation Treaty?

- A. China
- B. Iran
- C. North Korea ✓ **Correct answer**
- D. USA
- E. None of these

A. Wrong: China is a party to the Nuclear Non-Proliferation Treaty.

B. Wrong: Iran is a party to the Treaty.

C. Correct: North Korea withdrew from the NPT in 2003 and is not a member.

D. Wrong: the USA is a party to the Treaty.

E. Wrong, because C is correct.

Question 72 General Knowledge

Who is the Shakespeare of Urdu literature?

a Hashar Kashmiri ✓ **Correct answer**

- B. Deputy Nazir Ahmed
- C. Hafeez Jhalandari
- D. Mirza Ghalib
- E. None of these

A. Correct: the dramatist Agha Hashar Kashmiri is called the Shakespeare of Urdu literature.

B. Wrong: Nazir Ahmed was a novelist, not the "Shakespeare of Urdu".

C. Wrong: Hafeez Jalandhari wrote the national anthem; he is not called the Shakespeare of Urdu.

D. Wrong: Ghalib is the great Urdu poet, not the "Shakespeare of Urdu".

E. Wrong, because A is correct.

Question 73 Geography

Kartarpur Corridor is located in which district of India?

- A. Assam
- B. Gurdaspur ✓ **Correct answer**
- C. Andhra Pradesh
- D. Bihar
- E. None of these

A. Wrong: Assam is in north-east India, far from Kartarpur.

B. Correct: on the Indian side the Kartarpur Corridor is in Gurdaspur district, Punjab.

C. Wrong: Andhra Pradesh is in south India.

D. Wrong: Bihar is in eastern India.

cause B is correct.

Question 74 Everyday Science

Chloride ion and Argon are:

- A. isoelectronic ✓ **Correct answer**
- B. Isotopes
- C. Isomers
- D. None of these
- E. All of these

A. Correct: a chloride ion (Cl^-) and an argon atom both have 18 electrons, so they are isoelectronic.

B. Wrong: isotopes are atoms of the same element with different neutrons.

C. Wrong: isomers are compounds with the same formula but different structures.

D. Wrong, because A is correct.

E. Wrong: only the isoelectronic description applies.

Question 75 Current Affairs

Which country won ICC U-19 World Cup 2020?

- A. Pakistan
- B. India
- C. Bangladesh ✓ **Correct answer**
- D. Nepal
- E. None of these

A. Wrong: Pakistan did not win the 2020 Under-19 World Cup.

B. Wrong: India lost the 2020 final to Bangladesh.

Bangladesh beat India in the final to win the 2020 ICC Under-19 Cricket World Cup.

D. Wrong: Nepal did not win the tournament.

E. Wrong, because C is correct.

Question 76 Current Affairs

Center for Economic and Business Research, a UK based think tank said in its annual 'World Economic league table 2020' that Chinese economy will overtake USA by the year:

- A. 2023
- B. 2029
- C. 2028 ✓ **Correct answer**
- D. 2033

A. Wrong: the CEBR's December 2020 report did not predict 2023.

B. Wrong: the CEBR's December 2020 report did not predict 2029.

C. Correct: the Centre for Economics and Business Research's World Economic League Table 2021 (published December 2020) projected China overtaking the USA in 2028.

D. Wrong: the CEBR's December 2020 report did not predict 2033.

Question 77 Current Affairs

Which among the following declared to shut down its nuclear power plants by 2025?

- A. USA
- B. UK
- C. Ukraine
- D. Belgium ✓ **Correct answer**
- E. None of these

e USA did not declare a 2025 nuclear shutdown.

B. Wrong: the UK did not declare a 2025 nuclear shutdown.

C. Wrong: Ukraine did not declare a 2025 nuclear shutdown.

D. Correct: Belgium's 2003 nuclear phase-out law scheduled the closure of its nuclear plants by 2025.

E. Wrong, because D is correct.

Question 78 Everyday Science

Helium was first found in:

- A. Sun Rays ✓ **Correct answer**
- B. Space
- C. With the minerals
- D. None of these
- E. All of these

A. Correct: helium was first detected in 1868 in the Sun's spectrum during a solar eclipse, before it was found on Earth.

B. Wrong: the discovery was specifically in sunlight, not in space generally.

C. Wrong: helium was found in minerals only later, in 1895.

D. Wrong, because A is correct.

E. Wrong: only the solar discovery applies.

Question 79 Current Affairs

A Sri Lankan manager was murdered in which city over alleged blasphemy?

- A. Sialkot ✓ **Correct answer**

- C. Lahore
- D. None

A. Correct: Sri Lankan factory manager Priyantha Kumara was lynched in Sialkot in December 2021 over a blasphemy allegation.

B. Wrong: the murder did not take place in Multan.

C. Wrong: the murder did not take place in Lahore.

D. Wrong, because A is correct.

Question 80 Current Affairs

Nobel Prize laureate Malala Yousafzai announced her marriage with the person named?

- A. Asser Malik ✓ **Correct answer**
- B. Zubair Malik
- C. Shiraz Shah
- D. Shahid Ghaffar
- E. None of these

A. Correct: Malala Yousafzai married Asser Malik in November 2021.

B. Wrong: this is not the name of her husband.

C. Wrong: this is not the name of her husband.

D. Wrong: this is not the name of her husband.

E. Wrong, because A is correct.

Question 81 Current Affairs

Who has been named Athlete of the year for the year 2021 by Times Magazine?

- B. Gina Gogean
- C. Larisa Latynina
- D. Simone Biles ✓ **Correct answer**
- E. None of these

A. Wrong: Khorkina was not Time's Athlete of the Year 2021.

B. Wrong: Gogean was not Time's Athlete of the Year 2021.

C. Wrong: Latynina was not Time's Athlete of the Year 2021.

D. Correct: Time magazine named gymnast Simone Biles its Athlete of the Year for 2021.

E. Wrong, because D is correct.

Question 82 Current Affairs

When Pakistan reported its first confirmed case of the Omicron variant of Covid-19?

- A. December 03, 2021
- B. December 13, 2021 ✓ **Correct answer**
- C. December 15, 2021
- D. December 9, 2021

A. Wrong: the first Omicron case was not confirmed on 3 December 2021.

B. Correct: Pakistan's National Institute of Health confirmed the first Omicron case on 13 December 2021.

C. Wrong: the first case was confirmed two days earlier.

D. Wrong: the first case was confirmed four days later.

83 Current Affairs

First phase of local government elections in KPK held on:

- A. 19 December 2021 ✓ **Correct answer**
- B. 11 December 2021
- C. 29 December 2021
- D. None of these

A. Correct: the first phase of Khyber Pakhtunkhwa's local government elections was held on 19 December 2021.

B. Wrong: the elections were not held on 11 December 2021.

C. Wrong: the elections were not held on 29 December 2021.

D. Wrong, because A is correct.

Question 84 Everyday Science

Light emitting diodes are made from specific compounds of:

- A. Hydrogen
- B. Copper
- C. Gallium ✓ **Correct answer**
- D. None of these
- E. All of these

A. Wrong: LEDs are not made from hydrogen compounds.

B. Wrong: copper is used for wiring, not for the light-emitting semiconductor.

C. Correct: LEDs are made from gallium compounds such as gallium arsenide and gallium nitride.

D. Wrong, because C is correct.

ly gallium compounds apply?

Question 85 Everyday Science

Ball bearings are used to reduce friction by:

- A. Applying lubricant in the balls used
- B. Reducing the area of the contact with the use of metallic balls ✓ **Correct answer**
- C. Increasing the area of contact with the use of metallic balls
- D. None of these
- E. All of these

A. Wrong: lubrication is a separate method, not how ball bearings themselves reduce friction.

B. Correct: ball bearings replace sliding friction with rolling friction by reducing the contact area to small points on the balls.

C. Wrong: increasing the contact area would increase friction.

D. Wrong, because B is correct.

E. Wrong: only the reduced contact area applies.

Question 86 Everyday Science

Copper wires are generally used for electrical power transmission instead of iron wires because:

- A. Copper is cheaper than Iron
- B. Copper is a better conductor than iron ✓ **Correct answer**
- C. Copper is lighter than iron
- D. None of these

A. Wrong: copper is more expensive than iron.

copper's much higher electrical conductivity makes it the preferred conductor for power transmission.

C. Wrong: copper is denser than iron.

D. Wrong, because B is correct.

Question 87 Everyday Science

In a refrigerator cooling is produced by

- A. The ice that deposits on the freezer
- B. the evaporation of a volatile liquid ✓ **Correct answer**
- C. Both of these
- D. None of the above

A. Wrong: deposited ice is a by-product, not the source of cooling.

B. Correct: a refrigerator cools when its volatile refrigerant liquid evaporates and absorbs heat.

C. Wrong: only evaporation produces the cooling.

D. Wrong, because B is correct.

Question 88 Everyday Science

A person climbing a hill leans forward in order to:

- A. Avoid slippage
- B. Increase speed
- C. Increase stability ✓ **Correct answer**
- D. None of these
- E. All of these

A. Wrong: leaning forward does not primarily prevent slipping.

leaning forward does not increase climbing speed.

C. Correct: leaning forward keeps the body's centre of gravity over the feet, increasing stability on a slope.

D. Wrong, because C is correct.

E. Wrong: only stability applies.

Question 89 Everyday Science

Which one of the following can be used to focus sunlight?

- A. Concave lens
- B. Plane mirror
- C. concave mirror ✓ **Correct answer**
- D. convex mirror
- E. none of these

A. Wrong: a concave lens diverges light instead of focusing it.

B. Wrong: a plane mirror reflects light without focusing it.

C. Correct: a concave mirror converges parallel sunlight to a focus.

D. Wrong: a convex mirror diverges light.

E. Wrong, because C is correct.

Question 90 Everyday Science

Air Bubble shines in water because of phenomenon of:

- A. Total internal reflection ✓ **Correct answer**
- B. Refraction
- C. Dispersion
- D. None of these

A. Correct: light striking the air bubble from the water at a large angle is totally internally reflected, making the bubble shine.

B. Wrong: refraction bends light but is not what makes the bubble shine.

C. Wrong: dispersion splits light into colours, which is not the effect here.

D. Wrong, because A is correct.

E. Wrong: only total internal reflection applies.

Question 91 Everyday Science

The ability of the Eye to see in the dark, is due to the production of a purple pigment is known as:

- A. Carotene
- B. Rhodopsin ✓ **Correct answer**
- C. Iodopsin
- D. Retinene
- E. None of these

A. Wrong: carotene is a plant pigment and a vitamin A precursor, not the visual pigment.

B. Correct: rhodopsin, the purple pigment of the rod cells, enables vision in dim light.

C. Wrong: iodopsin is the pigment of the cone cells for colour vision in bright light.

D. Wrong: retinene (retinal) is a component of rhodopsin, not the pigment itself (it is the reproduction's key, but the pigment is rhodopsin).

E. Wrong, because B is correct.

Note: Note: the reproduction keys D (Retinene); the purple pigment itself is rhodopsin, so B is filed.

92 Current Affairs

Syed Ali Shah Gilani died at the age of:

- A. 93
- B. 90
- C. 92 ✓ **Correct answer**
- D. 96
- E. None of these

A. Wrong: Geelani was not 93 at his death.

B. Wrong: Geelani was not 90 at his death.

C. Correct: Syed Ali Shah Geelani died on 1 September 2021, aged 92.

D. Wrong: Geelani was not 96 at his death.

E. Wrong, because C is correct.

Question 93 Current Affairs

Pakistani filmmaker Samar Minallah won best short film award for her:

- A. I have a dream
- B. The Heart
- C. Out Swing ✓ **Correct answer**
- D. None of these

A. Wrong: this is not the film for which Minallah won the best short film award.

B. Wrong: this is not the film for which Minallah won the best short film award.

C. Correct: Samar Minallah's short film "Out Swing" won the best short film award.

D. Wrong, because C is correct.

94 Current Affairs

Which country hosted 2022 Women's Hockey Asia Cup?

- A. Japan
- B. Australia
- C. Oman ✓ **Correct answer**
- D. New Zealand

A. Wrong: Japan won the 2022 Women's Hockey Asia Cup but did not host it.

B. Wrong: Australia did not host the tournament.

C. Correct: the 2022 Women's Hockey Asia Cup was held in Muscat, Oman.

D. Wrong: New Zealand did not host the tournament.

Question 95 Current Affairs

In January 2021, the UN announced to resume Intergovernmental negotiations IGN, these are aimed at?

- A. Reforming UN General Assembly
- B. Reforming UN Security Council ✓ **Correct answer**
- C. Impose Arms Embargo
- D. Reform UN agendas for year 2021
- E. None of these

A. Wrong: the IGN process concerns the Security Council, not the General Assembly.

B. Correct: the Intergovernmental Negotiations (IGN) aim at reforming the UN Security Council, including its membership and working methods.

C. Wrong: the IGN has nothing to do with an arms embargo.

D. Wrong: the IGN is not about the 2021 agendas.

cause D is correct.

Question 96 Everyday Science

Which activity has been declared as mental disorder?

- A. Over sleeping
- B. excessive use of mobile
- C. excessive use of laptop
- D. Impaired control over gaming on mobile ✓ **Correct answer**
- E. None of these

A. Wrong: oversleeping is not classified as a mental disorder.

B. Wrong: general mobile overuse is not classified as a mental disorder.

C. Wrong: laptop overuse is not classified as a mental disorder.

D. Correct: gaming disorder — impaired control over gaming — was classified as a mental disorder in the WHO's ICD-11.

E. Wrong, because D is correct.

Question 97 Everyday Science

A slippery outer covering in some bacteria that protects them from phagocytosis by host cells is:

- A. Cell Wall
- B. Capsule ✓ **Correct answer**
- C. Peptidoglycan
- D. Teichoic acid
- E. None of these

A. Wrong: the cell wall is rigid and structural, not the slippery anti-phagocytic coat.

The capsule is the slippery polysaccharide coat that protects bacteria from phagocytosis.

C. Wrong: peptidoglycan is the material of the cell wall, not the outer slippery coat.

D. Wrong: teichoic acids are cell-wall polymers of Gram-positive bacteria.

E. Wrong, because B is correct.

Question 98 Everyday Science

Conching of chocolate results in:

- A. Improvement of flavour ✓ **Correct answer**
- B. decline in viscosity
- C. Reduction of microorganisms
- D. colour development

A. Correct: conching is the prolonged mixing and aerating of chocolate that develops and improves its flavour.

B. Wrong: conching does reduce viscosity, but its defining result is flavour improvement, and the keyed answer is flavour.

C. Wrong: conching is not a sterilisation step.

D. Wrong: conching does not develop the chocolate's colour.

Question 99 Everyday Science

The three dimensional structure of a protein is held together by:

- A. Hydrogen bond
- B. Ionic bond
- C. Disulphide bond
- D. All of these ✓ **Correct answer**

A. Wrong on its own: hydrogen bonds are only one of the forces holding the structure.

B. Wrong on its own: ionic bonds are only one of the forces holding the structure.

C. Wrong on its own: disulphide bonds are only one of the forces holding the structure.

D. Correct: a protein's three-dimensional structure is held together by hydrogen bonds, ionic bonds and disulphide bonds together.

E. Wrong, because D is correct.

Question 100 Everyday Science

Motion of planets follow _____ law.

- A. Kepler law ✓ **Correct answer**
- B. Hooke Law
- C. Newton Law
- D. None of these
- E. All of these

A. Correct: planetary motion follows Kepler's laws of planetary motion.

B. Wrong: Hooke's law describes elasticity, not planetary motion.

C. Wrong: Newton's laws underlie the motion, but the laws specifically describing planetary orbits are Kepler's.

D. Wrong, because A is correct.

E. Wrong: only Kepler's laws describe planetary motion as asked.

Question 101 General Knowledge

The world’s first vehicular bridges made of recycled plastics were built at:

- B. Virginia
- C. Karachi
- D. North Carolina ✓ **Correct answer**
- E. None of these

A. Wrong: the first recycled-plastic vehicular bridges were not built in China.

B. Wrong: Virginia hosted the first recycled-plastic railroad bridges (2010), not the first vehicular bridges.

C. Wrong: the first recycled-plastic vehicular bridges were not built in Karachi.

D. Correct: in early 2009 the first bridges in the world made of recycled plastics capable of carrying heavy tank loads were built at Fort Bragg, North Carolina.

E. Wrong, because D is correct.

Question 102 Everyday Science

Carbon Dioxide is _____ than oxygen.

- A. Heavier ✓ **Correct answer**
- B. Lighter
- C. Toxic
- D. Slower
- E. None of these

A. Correct: carbon dioxide (molar mass 44) is heavier than oxygen (molar mass 32).

B. Wrong: carbon dioxide is denser than oxygen.

C. Wrong: toxicity is not a comparison of weight.

D. Wrong: speed is not the property being compared.

cause A is correct.

Question 103 Everyday Science

Pyridine is a _____donor ligand.

- A. sulphur
- B. Nitrogen ✓ **Correct answer**
- C. Oxygen
- D. None of these

A. Wrong: pyridine donates through nitrogen, not sulphur.

B. Correct: pyridine coordinates to metals through its nitrogen atom, so it is a nitrogen-donor ligand.

C. Wrong: pyridine contains no oxygen donor atom.

D. Wrong, because B is correct.

Question 104 Everyday Science

D-subshell contain 5 orbitals, _____ of the have clover leaf shape.

- A. 5
- B. 4 ✓ **Correct answer**
- C. 2
- D. 3
- E. 6

A. Wrong: one of the five d orbitals (dz^2) does not have the clover-leaf shape.

B. Correct: four of the five d orbitals (dxy, dxz, dyz and dx^2-y^2) have a clover-leaf shape; the dz^2 orbital is dumbbell-shaped with a doughnut.

C. Wrong: more than two d orbitals have the clover-leaf shape.

ur, not three, d orbitals have the clover-leaf shape.

E. Wrong: there are only five d orbitals in total.

Question 105 Everyday Science

The average length of pregnancy is 9 months, equal to _____weeks.

- A. 35
- B. 34
- C. 40 ✓ **Correct answer**
- D. 33
- E. None of these

A. Wrong: 35 weeks is shorter than a full-term pregnancy.

B. Wrong: 34 weeks is shorter than a full-term pregnancy.

C. Correct: a full-term pregnancy averages 40 weeks from the last menstrual period.

D. Wrong: 33 weeks is much shorter than a full-term pregnancy.

E. Wrong, because C is correct.

Question 106 Everyday Science

Alpha Particles are formed as a result of:

- A. Oxidation
- B. Fusion
- C. Fission ✓ **Correct answer**
- D. None of these
- E. All of these

A. Wrong: oxidation is a chemical electron-loss process, not a source of alpha particles.

B. Wrong: fusion joins light nuclei and does not emit alpha particles as its product.

intended. fission is the only nuclear process among the options; strictly, alpha particles are emitted by alpha (radioactive) decay rather than fission, but C is the intended answer.

D. Wrong: C is the intended answer.

E. Wrong: only the nuclear process applies.

Question 107 Pakistan Studies

The Battle of Saragarhi was fought between the_____and Afghan tribesmen in 1897.

- A. British Punjabi Soldiers ✓ **Correct answer**
- B. Iranian Soldiers
- C. Ranjit Singh
- D. None of these

A. Correct: at Saragarhi in 1897, 21 soldiers of the British Indian Army (Sikh soldiers of the Punjab) held the post against Afghan tribesmen.

B. Wrong: no Iranian soldiers fought at Saragarhi.

C. Wrong: Ranjit Singh died in 1839, decades before the battle.

D. Wrong, because A is correct.

Question 108 Current Affairs

Cold Start Military Doctrine of India aims to attack Pakistan with_____

- A. Strategic nuclear weapons
- B. Conventional weapons ✓ **Correct answer**
- C. Tactful weapons
- D. All of these
- E. None of these

old Start is designed to avoid nuclear escalation, not to use nuclear weapons.

B. Correct: India's Cold Start doctrine envisages rapid, limited conventional strikes into Pakistan.

C. Wrong: "tactful weapons" is not a military category.

D. Wrong: only conventional weapons apply.

E. Wrong, because B is correct.

Question 109 General Knowledge

The Montgomery bus boycott was launched in the country:

- A. UK
- B. USA ✓ **Correct answer**
- C. Canada
- D. Australia
- E. None of these

A. Wrong: the Montgomery bus boycott took place in Alabama, not the UK.

B. Correct: the Montgomery bus boycott began in Montgomery, Alabama, USA, in December 1955.

C. Wrong: the boycott did not take place in Canada.

D. Wrong: the boycott did not take place in Australia.

E. Wrong, because B is correct.

Question 110 General Knowledge

The Senkaku Island in the East China Sea is a dispute between:

- A. China and Japan ✓ **Correct answer**

- C. China and India
- D. China and Iran
- E. None of these

A. Correct: the Senkaku Islands (Diaoyu in Chinese) are disputed between China and Japan.

B. Wrong: Nepal has no claim to the Senkaku Islands.

C. Wrong: the Senkaku dispute is not between China and India.

D. Wrong: Iran has no claim to the Senkaku Islands.

E. Wrong, because A is correct.

Question 111 Current Affairs

General Qasim Suleimani was the head of:

- A. Islamic Revolutionary Guard Corps ✓ **Correct answer**
- B. Houthi Rebellions
- C. Hezbullah
- D. Taliban
- E. None of these

A. Correct as intended: Qasem Soleimani commanded the Quds Force, the external-operations arm of Iran's Islamic Revolutionary Guard Corps; he did not command the whole IRGC, but A is the intended answer.

B. Wrong: Soleimani did not head the Houthis.

C. Wrong: Soleimani did not head Hezbollah.

D. Wrong: Soleimani did not head the Taliban.

cause A is the intended answer.

Question 112 General Knowledge

Who was the longest serving president of Egypt?

- A. Mostafa Madbouly
- B. Abdel Fattah el-Sisi
- C. Hosni Mubarak ✓ **Correct answer**
- D. None of the above

A. Wrong: Madbouly is a prime minister of Egypt, not a president.

B. Wrong: el-Sisi has been president since 2014, far shorter than Mubarak's tenure.

C. Correct: Hosni Mubarak ruled Egypt for almost 30 years (1981–2011), the longest-serving president.

D. Wrong, because C is correct.

Question 113 Current Affairs

Hagia Sophia in Turkiyem turned into a Mosque in the year:

- A. 2022
- B. 2019
- C. 2021
- D. 2020 ✓ **Correct answer**
- E. 2018

A. Wrong: the reconversion did not happen in 2022.

B. Wrong: the reconversion did not happen in 2019.

C. Wrong: the reconversion happened the year before.

D. Correct: Hagia Sophia was converted back into a mosque in July 2020.

e reconversion did not happen in 2018.

Question 114 Geography

Baku is the capital of the country:

- A. Azerbaijan ✓ **Correct answer**
- B. Tajikistan
- C. Bhutan
- D. Afghanistan
- E. None of these

A. Correct: Baku is the capital of Azerbaijan.

B. Wrong: Tajikistan's capital is Dushanbe.

C. Wrong: Bhutan's capital is Thimphu.

D. Wrong: Afghanistan's capital is Kabul.

E. Wrong, because A is correct.

Question 115 Everyday Science

The kingdom Protista includes:

- A. Algae, Fungi, Virus, Bacteria
- B. Fungi, Protozoa, Bacteria
- C. Virus, Fungi Protozoa, Algae
- D. None of these ✓ **Correct answer**
- E. All of these

A. Wrong: viruses are acellular and belong to no kingdom, bacteria belong to Monera and fungi form a separate kingdom, so this set does not describe Protista (it is the reproduction's key, but it is wrong).

ngi and bacteria do not belong to Protista.

C. Wrong: viruses and fungi do not belong to Protista.

D. Correct: none of the listed sets correctly describes the kingdom Protista (unicellular eukaryotes such as protozoa and unicellular algae).

E. Wrong: none of the listed sets is correct.

Note: Note: the reproduction keys A; no listed set is correct, so D is filed.

Question 116 Everyday Science

Higher reducing sugar in Fruit Jelly may result in crystallization of:

- A. Fructose
- B. Glucose ✓ **Correct answer**
- C. Sucrose
- D. None of these
- E. all of these

A. Wrong: fructose does not crystallise out of jelly in this way.

B. Correct: excess reducing sugar (glucose) in fruit jelly crystallises as glucose.

C. Wrong: sucrose crystallisation is a different fault (sugar crystallisation from excess sucrose).

D. Wrong, because B is correct.

E. Wrong: only glucose crystallisation is the result described.

Question 117 English

She had made a big mistake.

- A. A big mistake was made by her.

g mistake had been made by her. ✓ **Correct answer**

- C. A big mistake was made by her.
- D. None of the above

A. Wrong: the simple past passive does not match the past perfect of the active sentence.

B. Correct: the past perfect active "had made" becomes the past perfect passive "had been made".

C. Wrong: as with A, the simple past passive does not match the past perfect.

D. Wrong, because B is correct.

Question 118 Everyday Science

What was the lowest temperature on earth recorded?

- A. 88.2
- B. 89.2 ✓ **Correct answer**
- C. 90.2
- D. none

A. Wrong: the record is 89.2 degrees below zero, not 88.2.

B. Correct: the lowest temperature recorded on Earth is −89.2 °C, measured at Vostok Station, Antarctica, in 1983.

C. Wrong: the record is 89.2, not 90.2, degrees below zero.

D. Wrong, because B is correct.

Question 119 Current Affairs

Jamal Khashoggi was killed inside the Saudi Consulate in the Turkish city of:

- A. Ankara
- B. Istanbul ✓ **Correct answer**

- D. Izmir

A. Wrong: Khashoggi was not killed in Ankara.

B. Correct: Jamal Khashoggi was killed inside the Saudi consulate in Istanbul in October 2018.

C. Wrong: Khashoggi was not killed in Adana.

D. Wrong: Khashoggi was not killed in Izmir.

Question 120 Islamic Studies

Hazrat Bibi Fatima (RA) was buried in_____?

- A. Kufa
- B. Karbala
- C. Makkah
- D. Jannat-ul-Baqi ✓ **Correct answer**
- E. None of these

A. Wrong: Fatima (RA) was not buried in Kufa.

B. Wrong: Fatima (RA) was not buried in Karbala.

C. Wrong: Fatima (RA) was not buried in Makkah.

D. Correct: Fatima (RA) is buried in the Jannat-ul-Baqi cemetery in Madinah.

E. Wrong, because D is correct.

Question 121 Current Affairs

Military occupied power in Myanmar in:

- A. February 2019

- C. February 2021 ✓ **Correct answer**
- D. February 2020
- E. None of these

A. Wrong: the military did not seize power in February 2019.

B. Wrong: the coup happened a year earlier.

C. Correct: Myanmar's military seized power on 1 February 2021.

D. Wrong: the military did not seize power in February 2020.

E. Wrong, because C is correct.

Question 122 English

Choose the correct sentence. We do not have some olives

- A. We do not have some olives
- B. We do not have any olive ✓ **Correct answer**
- C. Both are correct
- D. Both are incorrect

A. Wrong: "some" is not used in negative sentences; "any" is required.

B. Correct: in a negative sentence "any" replaces "some", so this is the correct sentence.

C. Wrong: A is incorrect.

D. Wrong, because B is correct.

Question 123 English

Tick the correct sentence. Unless you have no rule, there is anarchy

- A. Unless you have no rule, there is anarchy

- C. Both are correct
- D. Both are wrong

A. Wrong: "unless" already carries the negative, so "no rule" makes a double negative.

B. Correct: removing the extra negative gives the intended sentence (the option prints without the article "a", but it is the intended correction).

C. Wrong: A is incorrect.

D. Wrong, because B is the intended answer.

Question 124 Current Affairs

Bangladesh celebrates it’s 50 anniversary of independence on:

- A. 21 March, 2021
- B. 23 March, 2021
- C. 26 March, 2021 ✓ **Correct answer**
- D. 29 March, 2021

A. Wrong: Bangladesh's Independence Day is not 21 March.

B. Wrong: 23 March is Pakistan Day, not Bangladesh's Independence Day.

C. Correct: Bangladesh declared independence on 26 March 1971, so its 50th anniversary fell on 26 March 2021.

D. Wrong: Bangladesh's Independence Day is not 29 March.

Question 125 Current Affairs

Which country sent humanitarian aid to Afghanistan in December 2021?

- A. Iran
- B. Iraq

di Arabia ✓ **Correct answer**

- D. USA

A. Wrong: the December 2021 aid shipment in question was not from Iran.

B. Wrong: the December 2021 aid shipment in question was not from Iraq.

C. Correct: Saudi Arabia sent humanitarian aid to Afghanistan in December 2021.

D. Wrong: the December 2021 aid shipment in question was not from the USA.

Question 126 Current Affairs

The funeral prayer of nuclear scientist Dr. Abdul Qadeer Khan was offered at?

- A. Badshahi Mosque
- B. Jamia Karachi
- C. Wazir Khan Mosque
- D. Faisal Mosque ✓ **Correct answer**
- E. None of these

A. Wrong: the funeral prayer was not offered at Badshahi Mosque.

B. Wrong: the funeral prayer was not offered at Jamia Karachi.

C. Wrong: the funeral prayer was not offered at Wazir Khan Mosque.

D. Correct: Dr Abdul Qadeer Khan's funeral prayer was offered at Faisal Mosque, Islamabad, on 10 October 2021.

E. Wrong, because D is correct.

Question 127 Current Affairs

Pakistan’s first Transgender Protection Centre opens in which city?

- A. Lahore

- C. Peshawar
- D. Islamabad ✓ **Correct answer**

A. Wrong: the first centre did not open in Lahore.

B. Wrong: the first centre did not open in Karachi.

C. Wrong: the first centre did not open in Peshawar.

D. Correct: Pakistan's first Transgender Protection Centre opened in Islamabad in 2021.

Question 128 English

Choose the correct sentence. She has been flying kite from two hours

- A. She has been flying kite from two hours
- B. She has been flying kite for two hours ✓ **Correct answer**
- C. Both are correct
- D. both are wrong

A. Wrong: "from" is used with a point in time, not a duration.

B. Correct: "for" is used with a duration of time.

C. Wrong: A is incorrect.

D. Wrong, because B is correct.

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