Inspector (BPS-16), Federal Investigation Agency (FIA), Batch 1 — 2019 · Solved Past Paper

Body: Federal Public Service Commission (FPSC) · **Post:** Inspector (BPS-16), Federal Investigation Agency (FIA), Batch 1 · **Year:** 2019 · **Questions:** 99 in the original paper — **91 solved and verified**, 8 excluded as defective (Q16, Q27, Q30, Q34, Q35, Q36, Q58, Q93) · **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 2019 sitting.

Source note: test360.pk reproduction (all 99 stems; 88 carry a printed key, 11 do not). Q16, Q27, Q30, Q34, Q35, Q36, Q58, Q93 excluded as DEFECTIVE by the assistant under the owner's 8 Nov 2026 delegation.

Question 1 English

_____ pollution control measures are expensive, many industrial hesitate to adopt them.

- A. Although
- B. However
- C. Because ✓ **Correct answer**
- D. Dispute

A. The printed key, but wrong: "although" sets up a contrast, yet the expense is not contrasted with the hesitation — it causes it.

" also signals contrast and cannot join the two clauses this way.

C. The measures are expensive, and that expense is the reason industries hesitate to adopt them; "because" is the causal connector the sentence needs.

D. A noun/verb meaning argument; it is not a connector at all.

Question 2 English

It is a story of two non functional batches of _____ armoured cars.

- A. Deecared
- B. discarded ✓ **Correct answer**
- C. de crapit
- D. defected

A. A misprint of "declared"; declared batches would be announced, not thrown away.

B. Discarded means thrown away as useless, which fits batches of armoured cars that do not function.

C. A misprint of "decrepit" (worn out with age); it describes old things, not batches set aside as unusable.

D. "Defected" means deserted to the other side (of people); machines do not defect.

Question 3 English

I am pleased to see you

- A. Present participle
- B. Past participle ✓ **Correct answer**
- C. Feature participle
- D. None of above

A. The printed key, but wrong: the present participle of "please" is "pleasing", not

B. "Pleased" is the past participle of "please", used here as an adjective after "am".

C. "Feature" is a misprint of "future"; there is no such participle.

D. Wrong, since B names the form correctly.

Question 4 English

I saw him jump _____ the wall

- A. Over ✓ **Correct answer**
- B. At
- C. On
- D. None of these

A. "Jump over the wall" is the idiom for clearing it from one side to the other.

B. "Jump at" means to pounce on something, not to cross a wall.

C. "Jump on the wall" means landing on top of it, not crossing it.

D. Wrong, since A is correct.

Question 5 English

The cloth is inferior _____ that

- A. With
- B. To ✓ **Correct answer**
- C. By
- D. None of these

A. "Inferior with" is not the idiom.

B. The fixed collocation is "inferior to" (as "superior to").

y" is not idiomatic.

D. Wrong, since B is correct.

Question 6 English

Synonym of ' scanty " is:

- A. Smart
- B. Meager ✓ **Correct answer**
- C. Rigid
- D. None of these

A. Smart means clever or neat, not scarce.

B. "Scanty" means small in amount; "meager" means the same — scanty supplies are meager supplies.

C. Rigid means stiff and inflexible, unrelated to quantity.

D. Wrong, since B is the synonym.

Question 7 English

Synonym of " sabotage 'is

- A. Disrupt ✓ **Correct answer**
- B. Streamline
- C. Segregate
- D. None of these

A. To sabotage is to deliberately damage or disrupt a plan or machine; "disrupt" is the closest synonym.

B. Streamline means to make more efficient — the opposite of sabotaging.

C. Segregate means to separate, unrelated to sabotage.

nce A is the synonym.

Question 8 English

Synonym of " rupture ' is:

- A. Crack ✓ **Correct answer**
- B. Volcano
- C. Joint
- D. None of these

A. A rupture is a break or burst; a crack is the same kind of break.

B. A volcano is a mountain that erupts; it is not a synonym of rupture.

C. A joint joins things together; a rupture pulls them apart.

D. Wrong, since A is the synonym.

Question 9 English

Antonym of "room" is :

- A. Spacious
- B. Open - ended
- C. Cramped ✓ **Correct answer**
- D. None of these

A. The printed key, but wrong: "spacious" means having plenty of room — it is a near-synonym of "room" (space), not its opposite.

B. Open-ended means without a fixed end or limit; it is not the opposite of room.

C. "Room" here means space; its opposite is "cramped", having too little space.

D. Wrong, since C is the antonym.

10 English

Antonym of " repugnance " is.

- A. attraction ✓ **Correct answer**
- B. reject
- C. refusal
- D. None of these

A. "Repugnance" is strong disgust or aversion; its opposite is attraction, liking.

B. A verb meaning to refuse; it is not the antonym of the noun repugnance, and the second ✅ on it is a reproduction error.

C. Refusal is closer to a synonym of the feeling behind repugnance (rejection), not its opposite.

D. Wrong, since A is the antonym.

Question 11 English

The idiom "Break the ice" means

- A. easy to mould
- B. To do difficult job
- C. To do something to reduce tension ✓ **Correct answer**
- D. None of these

A. That describes something pliable, not the idiom.

B. Breaking the ice is not about a difficult job.

C. "Break the ice" means to ease social awkwardness and get people talking, i.e. to reduce tension at the start of a meeting or conversation.

D. Wrong, since C is the meaning.

12 English

The idiom " when pigs fly" means:

- A. Something that will never happen ✓ **Correct answer**
- B. Something bad
- C. Something good to happen
- D. None of these

A. "When pigs fly" is said of something impossible, that will never happen.

B. The idiom says nothing about good or bad, only about impossibility.

C. The opposite of the idiom's sense.

D. Wrong, since A is the meaning.

Question 13 English

The idiom " once in a blue moon" means

- A. Every month
- B. That will never happen again
- C. an event that happens infrequently ✓ **Correct answer**
- D. None of these

A. The opposite: a blue moon is rare, not monthly.

B. That is "when pigs fly", not "once in a blue moon".

C. "Once in a blue moon" means very rarely, on very few occasions.

D. Wrong, since C is the meaning.

Question 14 English

Choose the correct sentence

ran out of the room ✓ **Correct answer**

- B. She ran out the room
- C. She ran out from the room
- D. None of these

A. "Out of" is the correct preposition for leaving an enclosed place.

B. Missing the preposition "of"; ungrammatical.

C. "Out from" is not used for leaving a room.

D. Wrong, since A is correct.

Question 15 English

Choose the correct sentence

- A. You ought to not go
- B. You ought not to go ✓ **Correct answer**
- C. You not ought to go
- D. None of these

A. "Ought to not" is awkward and not the standard negative form.

B. The standard negative of "ought to": "ought not to go".

C. Wrong word order.

D. Wrong, since B is correct.

Question 16 English

Choose the correct passive voice of " taught you grammar?

- A. By whom grammar was taught to you?
- B. By whom you were taught grammar?
- C. By whom were you taught grammar?

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. The correct passive question, "By whom WERE you taught grammar?", appears in neither option.

A. A passive in form, but a question needs inversion ("was grammar taught"), which is missing.

B. Also lacks inversion ("were you taught"); the word order is that of a statement, not a question.

C. Garbled ("laught" for taught) and ungrammatical.

D. Tempting, since no option is the correct sentence, but "None of these" is not the paper's answer to a voice-change item and the item as set has no correct letter. **DEFECTIVE-excluded** — the intended answer ("By whom were you taught grammar?") is in none of the options, so the question must never be taught as having an answer. (The original active sentence is evidently "Who taught you grammar?")

Question 17 English

Choose the correct voice of " why are you telling a lie?"

- A. Why are you told a lie?
- B. Why is a be being told by you?
- C. Why a lie is being told by you? ✓ **Correct answer**
- D. None of these

A. Wrong tense and wrong voice: it turns the subject into the one being told, not the one telling.

B. Garbled ("a be" for "a lie") and ungrammatical.

C. The correct passive conversion of the present-continuous active ("are telling" → "is

the only defect is the missing inversion of "is" before "a lie" in the question form.

D. Wrong, since C is the intended passive, defect notwithstanding.

Question 18 English

Change the narration " Aitha said, I can play cricket."

- A. Aisha told that she could play cricket ✓ **Correct answer**
- B. Aisha told that she can play cricket
- C. Aisha told she could play cricket
- D. None of these

A. "Can" correctly becomes "could" in reported speech and the connector "that" is present; the only defect is "told" used without an object ("told me that" or "said that" would be strict).

B. Wrong: "can" must change to "could" in reported speech.

C. The tense change is right but the connector "that" is missing and "told" still lacks an object, so it is weaker than A.

D. Wrong, since A is the intended conversion.

Question 19 English

Change the narration " Saima said," two and two make four."

- A. Saima told two or two made four
- B. Saima told that two and two is made four
- C. Saima said that two and two are made four
- D. None of these ✓ **Correct answer**

A. Garbled ("two or two") and the tense wrongly changes.

four" is not English for this fact.

C. "Are made four" is wrong; the fact is "two and two MAKE four".

D. Correct: a universal truth keeps its present tense in reported speech, so the right sentence is "Saima said that two and two make four" — and that sentence appears in none of the options.

Question 20 Mathematics

254 ×?×8=95504

- A. 47 ✓ **Correct answer**
- B. 49
- C. 51
- D. None of these

A. 95504 ÷ 8 = 11938, and 11938 ÷ 254 = 47; check: 254 × 47 = 11938, × 8 = 95504.

B. 254 × 49 × 8 = 99568, too big.

C. 254 × 51 × 8 = 103632, too big.

D. Wrong, since A is the missing number.

Question 21 Mathematics

2567÷17×3=?+180

- A. 73
- B. 271
- C. 273 ✓ **Correct answer**
- D. None of these

A. Far too small: 2567 ÷ 17 alone is 151.

B. Two short: 151 × 3 = 453, and 453 − 180 = 273, not 271.

= 151, 151 × 3 = 453, 453 − 180 = 273.

D. Wrong, since C is the value.

Question 22 Mathematics

-7 m-[3n-{8m-(4n-10 m)}]=?

- A. 11m -5n
- B. 11n-11m
- C. 11m-7 n ✓ **Correct answer**
- D. None of these

A. Wrong coefficient of n: the inner brackets give −7n, not −5n.

B. The letters are swapped; the result is in m first, n second.

C. Working inwards: 4n − 10m; 8m − (4n − 10m) = 18m − 4n; 3n − (18m − 4n) = 7n − 18m; −7m − (7n − 18m) = 11m − 7n.

D. Wrong, since C is the simplification.

Question 23 Mathematics

1-[1-{1-(1-1-1)}]

- A. 0
- B. 1
- C. 2 ✓ **Correct answer**
- D. None of these

A. Too small by 2.

B. One short of the value.

C. Innermost: 1 − 1 − 1 = −1; 1 − (−1) = 2; 1 − 2 = −1; 1 − (−1) = 2.

nce C is the value.

Question 24 Mathematics

If x/ y=1/3, then x^2+y^2/ x^2-y^2=?

- A. -10/9
- B. 5/4
- C. -5/4 ✓ **Correct answer**
- D. None of these

A. That is (1+9)/(1−9) mis-signed or mis-added; the numerator is 10, the denominator −8.

B. The right size but the wrong sign: the denominator $x^2 - y^2$ is negative.

C. Take x = 1, y = 3: (1 + 9)/(1 − 9) = 10/(−8) = −5/4.

D. Wrong, since C is the value. (A stray line "Explanation: No" follows this question on the source page; it carries no content.)

Question 25 Mathematics

If a/3 =b/4 = c/7, then (a+ b+c)/c=?

- A. 1/7
- B. 1/2
- C. 2 ✓ **Correct answer**
- D. None of these

A. That would be c/(a+b+c) upside down and wrong.

B. Half the true value.

C. Put a = 3k, b = 4k, c = 7k: (3k + 4k + 7k)/7k = 14k/7k = 2.

D. Wrong, since C is the value.

26 Mathematics

A farmer divides his hard of cows among his four sons so that first son gets one half of the berd, the second son one - Fourth, the third son one fifth and the fourth son 7 cows. The total number of cows in the hard is:

- A. 100
- B. 140 ✓ **Correct answer**
- C. 180
- D. None of these

A. With 100 cows the fourth son would get 100 × (1 − 1/2 − 1/4 − 1/5) = 5 cows, not 7.

B. The first three sons take 1/2 + 1/4 + 1/5 = 19/20 of the herd, leaving 1/20 for the fourth son: 1/20 of 140 = 7 cows.

C. With 180 cows the fourth son would get 9 cows, not 7.

D. Wrong, since B is the total. ("Hard"/"berd" are misprints of "herd".)

Question 27 Mathematics

1 pad 3/5 of a bill.If Rs.400 in the denominations of one rupee, five rupee and ten rupee notes. The number of each type of notes are equal.what is the total number of notes he has?

- A. 90
- B. 100
- C. 120
- D. None of these

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. With Rs 400 and equal numbers of Rs 1, Rs 5 and Rs 10 notes, the total is 75 notes, which is none of the options; the printed key C 120 is the answer to Q28's different figures.

would mean 30 of each: 30 × (1 + 5 + 10) = Rs 480, not Rs 400.

B. 100 notes is not divisible into three equal whole piles of the three denominations in a way that sums to Rs 400.

C. The printed key, but wrong for Rs 400: 120 notes means 40 of each, totalling 40 × 16 = Rs 640 (that is Q28's sum, not this one).

D. The correct total, 75, is indeed none of the options — but "None of these" is not the paper's keyed answer and the stem itself is garbled ("1 pad 3/5 of a bill"), so the item is excluded rather than re-keyed. Worked: with n notes of each kind, n × (1 + 5 + 10) = 400 gives n = 25, so 3 × 25 = **75** notes. **DEFECTIVE-excluded** — the stem is garbled and no option matches the figures as printed; it reads as a corrupt duplicate of Q28.

Question 28 Mathematics

A man has in all Rs.640 in the denominations of one - rupee, five rupee and ten rupee notes. The number of each type of notes are equal. What is the total number of notes he has?

- A. 90
- B. 100
- C. 120 ✓ **Correct answer**
- D. None of these

A. 90 notes means 30 of each: 30 × 16 = Rs 480, not Rs 640.

B. 100 notes cannot be split into three equal whole piles.

C. With n notes of each kind, n × (1 + 5 + 10) = 640 gives n = 40, so 3 × 40 = 120 notes.

D. Wrong, since C is the total.

29 Mathematics

All went to shop to buy 50 kg of rice.He buys two varieties of nee which cost him Rs.4.5 per kg and Rs.5 per kg.He appends a total of Rs.240. What was the quality of cheaper rice bought by him?

- A. 20kg ✓ **Correct answer**
- B. 25kg
- C. 30kg
- D. None of these

A. Let x be the cheaper rice: 4.5x + 5(50 − x) = 240 gives 250 − 0.5x = 240, so x = 20 kg.

B. 25 kg of each would cost 25 × 4.5 + 25 × 5 = Rs 237.50, not Rs 240.

C. 30 kg of cheaper rice would cost 30 × 4.5 + 20 × 5 = Rs 235, not Rs 240.

D. Wrong, since A is the quantity. ("Nee" is rice, "appends" is spends, "quality" is quantity.)

Question 30 Mathematics

The difference of 1/3/6 and its reciprocal is:

- A. 1-1/8
- B. 1-1/3
- C. 15/16
- D. 19/16

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. No sensible reading of the stem yields any of the four options.

A. That is 7/8; no reading of "1/3/6" and its reciprocal gives 7/8.

B. That is 2/3; no reading gives 2/3 either.

C. No reading gives 15/16.

g gives 19/16. Readings tried: 1⅓ (3/2) has reciprocal 2/3 and difference 5/6; (1/3)/6 = 1/18 has reciprocal 18 and difference 323/18; 1/(3/6) = 2 has reciprocal 1/2 and difference 3/2. None matches any option. **DEFECTIVE-excluded** — the stem is garbled beyond recovery and no option is the answer on any reading. (No printed key shown on the page.)

Question 31 Mathematics

6250____√,?= 625

- A. 10
- B. 95
- C. 100 ✓ **Correct answer**
- D. None of these

A. √10 is not a whole number and 6250 ÷ √10 is not 625.

B. 6250 ÷ √95 is about 641, not 625.

C. Read as 6250 ÷ √? = 625: √? = 6250 ÷ 625 = 10, so ? = 100.

D. Wrong, since C is the value. (The stem is garbled on the page; the division reading is the only one that yields an option.)

Question 32 Mathematics

√0.4=?

- A. O.2
- B. 0.02
- C. 0.632 ✓ **Correct answer**
- D. None of these

A. $0.2^2 = 0.04$, ten times too small.

B. $0.02^2 = 0.0004$, far too small.

.3994 ≈ 0.4, √0.4 ≈ 0.6325.

D. Wrong, since C is the value.

Question 33 Mathematics

√10×√250=?

- A. 46.95
- B. 43.75
- C. 50 ✓ **Correct answer**
- D. None of these

A. Not the product: √10 × √250 = √2500.

B. Not the product either.

C. √10 × √250 = √(10 × 250) = √2500 = 50.

D. Wrong, since C is the value.

Question 34 Mathematics

If √ $4n^2$=24 then the value of n is:

- A. 4
- B. 6
- C. 5
- D. None of these

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. As printed, √$4n^2$ = 2n = 24 gives n = 12, which is none of the options, and the printed key C 5 satisfies no reading of the stem.

A. √4×16 = √64 = 8, not 24.

144 = 12, not 24 (6 would be right only if the stem were $\sqrt{(4n)^2} = 24$, which it is not).

C. The printed key, but $\sqrt{4 \times 25} = \sqrt{100} = 10$, not 24; no reading of the stem yields 5.

D. The worked answer 12 is indeed none of the options, but the item is excluded rather than re-keyed because the stem itself is misprinted. **DEFECTIVE-excluded** — the stem as printed gives n = 12, which no option offers.

Question 35 Mathematics

$\sqrt{31684}$=?

- A. 108
- B. 172
- C. 5
- D. None of these

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. $\sqrt{31684} = 178$, which is none of the options, and the printed key C 5 is absurd.

A. $108^2 = 11664$, far below 31684.

B. $172^2 = 29584$, below 31684.

C. The printed key, but $5^2 = 25$.

D. The true root 178 is indeed none of the options ($178^2 = 31684$: $178 \times 178 = 31684$), but the item is excluded rather than re-keyed because the printed key is wildly wrong and the option set contains nothing near the answer. **DEFECTIVE-excluded** — the correct root, 178, appears in none of the options.

36 Mathematics

Which number must be added to 2203 to get a perfect square?

- A. 1
- B. 3
- C. 5
- D. None of these

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. The next square above 2203 is $47^2 = 2209$, so 6 must be added, and 6 is none of the options; the printed key C 5 gives 2208, which is not a square.

A. 2203 + 1 = 2204, not a square ($46^2 = 2116$, $47^2 = 2209$).

B. 2203 + 3 = 2206, not a square.

C. The printed key, but 2203 + 5 = 2208, not a square.

D. The needed number, 6, is indeed none of the options, but the item is excluded rather than re-keyed because the option set contains no correct value. **DEFECTIVE-excluded** — the number to add is 6, which no option offers.

Question 37 Mathematics

The average of the numbers 15 ,5, 0, 12, 8 is

- A. 8 ✓ **Correct answer**
- B. 8.5
- C. 10
- D. None of these

A. (15 + 5 + 0 + 12 + 8) ÷ 5 = 40 ÷ 5 = 8.

B. Half a point too high.

s too high.

D. Wrong, since A is the average.

Question 38 Mathematics

The average of 6 number is 30. If the average of first four is 25 and that of last three is 35, the fourth number is:

- A. 25 ✓ **Correct answer**
- B. 30
- C. 35
- D. None of these

A. Sum of all six = 6 × 30 = 180; sum of first four = 4 × 25 = 100; sum of last three = 3 × 35 = 105; the fourth number is counted in both groups, so it is 100 + 105 − 180 = 25.

B. That is the overall average, not the fourth number.

C. That is the average of the last three, not the fourth number.

D. Wrong, since A is the value.

Question 39 Mathematics

The average age of 3 friend is 23.Even if the age of the 4th friend is added, the average versions 23.what is the age of 4th friend?

- A. 21 years
- B. 23 years ✓ **Correct answer**
- C. 32 years
- D. None of these

A. Adding a 21-year-old would pull the average below 23.

B. Sum of the first three = 3 × 23 = 69; for four people to average 23 the sum must be 92,

friend is 92 − 69 = 23.

C. Adding a 32-year-old would raise the average to 25.25.

D. Wrong, since B is the age.

Question 40 Current Affairs

America 's 4a president HW Bush died on:

- A. Nov 30,2018 ✓ **Correct answer**
- B. Dec 4,2018
- C. Dec 8,2018
- D. None of these

A. George H. W. Bush, the 41st President of the United States ("4a" is a misprint of 41st), died on 30 November 2018, aged 94.

B. His state funeral was held on 5 December, not his death.

C. No event of his death falls on this date.

D. Wrong, since A is the date.

Question 41 Current Affairs

When US president Trump's 1st is expiring in:

- A. 2018
- B. 2019
- C. 2020
- D. None of these ✓ **Correct answer**

A. Trump's first term began in January 2017 and ran four years, not one.

B. The exam year, but the term had two years left to run.

of the next election, but the term itself ended in January 2021.

D. Correct: Donald Trump's first term expired on 20 January 2021, which is none of 2018, 2019 or 2020.

Question 42 Current Affairs

Dr. Mahatrhir bin Muhammad the Malaysia politician currently serving as prime Minister of the country for the

- A. 1st time
- B. 2nd time ✓ **Correct answer**
- C. 3rd time
- D. None of these

A. Mahathir first served as prime minister from 1981 to 2003, so May 2018 was not his first time.

B. Mahathir was sworn in again on 10 May 2018, aged 92, after leading Pakatan Harapan to victory — his second premiership (2018–2020).

C. He never served a third term.

D. Wrong, since B is correct.

Question 43 Current Affairs

G- 20 of 2018 conference was held:

- A. Argentina ✓ **Correct answer**
- B. Brazil
- C. France
- D. None of these

A. The 2018 G20 Leaders' Summit was held in Buenos Aires, Argentina, on 30 November–1 December 2018.

ted the G20 summit in 2024, not 2018.

C. France has never hosted a G20 leaders' summit in this period.

D. Wrong, since A is the host.

Question 44 Current Affairs

When separation of Britain from European Union is due?

- A. 1st July 2019
- B. 1st April 2019
- C. 29th March 2019 ✓ **Correct answer**
- D. None of these

A. No Brexit date was set for July 2019.

B. Not the Article 50 deadline.

C. Under Article 50, the UK was due to leave the EU on 29 March 2019; that was the due date at the time of the exam (the deadline was later extended, and the UK actually left on 31 January 2020).

D. Wrong, since C was the due date as at the exam.

Question 45 Current Affairs

Saudi journalist Jamal kashoggi was killed in:

- A. Syria
- B. Turkey ✓ **Correct answer**
- C. Egypt
- D. None of these

A. Khashoggi was not killed in Syria.

B. Jamal Khashoggi was killed on 2 October 2018 inside the Saudi consulate in Istanbul,

C. Khashoggi was not killed in Egypt.

D. Wrong, since B is the country.

Question 46 General Knowledge

US president 's maximum tenure can be:

- A. 8 years ✓ **Correct answer**
- B. 10 years
- C. 5 years
- D. None of these

A. Under the 22nd Amendment, a US president may serve at most two elected four-year terms, i.e. 8 years.

B. Ten years is the absolute constitutional maximum only where a vice-president succeeds with under two years left and then wins two terms; it is not the standard maximum tenure asked for.

C. No US presidential term is five years.

D. Wrong, since A is the standard answer.

Question 47 Current Affairs

Presently who is the crown prince of Saudi Arabia?

- A. Talal bin Abdul Aziz
- B. Salman bin Abdul Aziz
- C. Muhammad bin Suleman ✓ **Correct answer**
- D. None of these

A. Prince Talal was a senior prince, never crown prince in this period.

an is the king, not the crown prince.

C. Mohammed bin Salman (spelled "Suleman" on the page) became Crown Prince of Saudi Arabia in June 2017 and held the post at the exam date.

D. Wrong, since C is the crown prince.

Question 48 Pakistan Studies

Who is holding the portfolio of interior Ministry of Pakistan?

- A. Pervez khattak
- B. Imran Khan ✓ **Correct answer**
- C. Shifaqat Mahmood
- D. None of these

A. Pervez Khattak was Defence Minister in Imran Khan's cabinet, not interior.

B. Prime Minister Imran Khan initially kept the interior portfolio to himself when his cabinet was formed in August 2018 (Shehryar Afridi served as Minister of State for Interior from 31 August 2018; Ijaz Shah took the portfolio only in April 2019).

C. Shafqat Mahmood was Education Minister, not interior.

D. Wrong, since B held the portfolio at the exam date.

Question 49 Pakistan Studies

Who is the current chairman Senate in Pakistan

- A. Sadiq d sinjrani ✓ **Correct answer**
- B. Hasil Bazinjo
- C. Dr. Malik
- D. None of these

A. Sadiq Sanjrani (spelled "Sadiq d sinjrani" on the page) became Chairman of the Senate

8 and held the post at the exam date.

B. Hasil Bizenjo was a senator and a rival candidate for the chairmanship, not the chairman.

C. Abdul Malik Baloch was a former chief minister of Balochistan, not Senate chairman.

D. Wrong, since A is the chairman.

Question 50 Pakistan Studies

Who is the current chief Minister of Balochistan?

- A. Abdul Quddus Bazinjo
- B. Akhtar Mengal
- C. Jam Kamal ✓ **Correct answer**
- D. None of these

A. Abdul Quddus Bizenjo was the previous chief minister (January–June 2018), not the incumbent.

B. Akhtar Mengal led the BNP-Mengal, a coalition partner, but was not chief minister.

C. Jam Kamal Khan became Chief Minister of Balochistan in August 2018 and held the post at the exam date.

D. Wrong, since C is the chief minister.

Question 51 Pakistan Studies

Which Janam day (birthday) of Guru Nanak was celebrated by the Sikh community in November 2018?

- A. 549th ✓ **Correct answer**
- B. 550 th
- C. 551th

A. The Gurpurab celebrated on 23 November 2018 was Guru Nanak's 549th birth anniversary (Nanak was born in 1469; 1469 + 549 = 2018), marked by parades and celebrations at Nankana Sahib and abroad.

B. The printed key, but wrong: the 550th birth anniversary fell on 12 November 2019, when the Kartarpur Corridor was opened for it. The year-long 550th commemoration was launched in November 2018, which is likely why the key says 550th — but the birthday actually celebrated that month was the 549th.

C. That would fall in November 2020, not 2018.

D. Wrong, since A is the anniversary celebrated in November 2018.

Question 52 General Knowledge

Which party in UK is currently in power?

- A. Lahore party
- B. Conservative party ✓ **Correct answer**
- C. Liberal Democrat
- D. None of these

A. No such UK party exists; "Labour" is misprinted as "Lahore".

B. The Conservatives, led by Theresa May, were in government in the UK at the exam date (since 2010, in coalition then alone).

C. The Liberal Democrats were in opposition, not in power.

D. Wrong, since B is the governing party.

Question 53 General Knowledge

Which country won the football world cup 2018?

nce ✓ Correct answer

- B. Croatia
- C. Germany
- D. None of these

A. France beat Croatia 4–2 in the final in Moscow on 15 July 2018 to win the FIFA World Cup.

B. Croatia reached the final but lost to France.

C. The defending champions, Germany, were knocked out in the group stage in 2018.

D. Wrong, since A won the tournament.

Question 54 General Knowledge

One Belt one road (OBOR) of project of china

- A. It is part of CPEC
- B. Includes CPEC in it
- C. Is part of New silk road ✓ **Correct answer**
- D. None of these

A. Backwards: CPEC is a part of OBOR, not the other way round.

B. True in substance (OBOR/BRI does include CPEC), but C is the better description of what OBOR itself is.

C. The One Belt One Road (Belt and Road Initiative) is China's revival of the ancient Silk Road — the "New Silk Road" linking China with Asia, Europe and Africa.

D. Wrong, since C describes the project.

Question 55 General Knowledge

The predecessor organization of CEO is

TO

- B. CENTO
- C. RCD ✓ **Correct answer**
- D. None of these

A. The Southeast Asia Treaty Organization was a Cold War military alliance, not the predecessor of ECO.

B. The Central Treaty Organization was also a military pact, not ECO's predecessor.

C. "CEO" is a misprint of ECO (Economic Cooperation Organization); its predecessor was the Regional Cooperation for Development (RCD), founded in 1964 by Pakistan, Iran and Turkey, which ECO replaced in 1985.

D. Wrong, since C is the predecessor.

Question 56 Current Affairs

When the exit of Bntain (BREX) from European Union shall be completed?

- A. Jan,2019
- B. Feb,2019
- C. March, 2019 ✓ **Correct answer**
- D. None of these

A. No Brexit completion date was set for January 2019.

B. No Brexit completion date was set for February 2019.

C. The UK was scheduled to leave the EU on 29 March 2019, which was the completion date as understood at the exam (the deadline was later extended, and the UK actually left on 31 January 2020).

D. Wrong, since C was the scheduled completion date as at the exam.

57 General Knowledge

Headquarters of ECO is in:

- A. Ashkabad
- B. Tashkent
- C. Tehran ✓ **Correct answer**
- D. None of these

A. Ashgabat is the capital of Turkmenistan, an ECO member, but not the headquarters city.

B. Tashkent is the capital of Uzbekistan, an ECO member, but not the headquarters city.

C. The Economic Cooperation Organization is headquartered in Tehran, Iran.

D. Wrong, since C is the headquarters.

Question 58 General Knowledge

The current president belongs to:

- A. Democrats
- B. Republicans
- C. Independents
- D. None of these

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. The stem names no country, so the question is unanswerable as printed.

A. The US president's predecessor (Barack Obama) was a Democrat, but the sitting president in January 2019 was not.

B. Donald Trump, the US president at the exam date, was a Republican — so if the question means the US president, B is right.

d key, it fits Russia's president Vladimir Putin, who sits as an Independent, but the stem never says Russia.

D. Not assertable either, since two of the options are each right for a different unnamed president. **DEFECTIVE-excluded** — with no country in the stem, the question has two defensible answers (B for the US president, C for Russia's president) and must never be taught as having an answer.

Question 59 Current Affairs

When Indian Film Actress Sir Devi died?

- A. 2015
- B. 2016
- C. 2018 ✓ **Correct answer**
- D. None of these

A. Sridevi was alive and working in 2015.

B. Sridevi was alive in 2016 (her film "Mom" released in 2017).

C. Sridevi ("Sir Devi" on the page) died on 24 February 2018 in Dubai, aged 54.

D. Wrong, since C is the year.

Question 60 Pakistan Studies

After Independence the strength of Constituent was raised to:

- A. 70
- B. 75
- C. 79 ✓ **Correct answer**
- D. None of these

A. Close to the original figure but not the raised strength.

ised strength.

C. The Constituent Assembly of Pakistan originally had 69 members; after independence its strength was raised to 79.

D. Wrong, since C is the raised strength.

Question 61 Pakistan Studies

Ghulam Muhammad dissolved the First Constituent Assembly of Pakistan on:

- A. 24th October 1954 ✓ **Correct answer**
- B. 24th November 1954
- C. 24th December 1954
- D. None of these

A. Governor-General Ghulam Muhammad dissolved the first Constituent Assembly on 24 October 1954, the act later challenged in the Maulvi Tamizuddin case.

B. A month late; the dissolution was in October.

C. Two months late.

D. Wrong, since A is the date.

Question 62 Pakistan Studies

Bogra Formula was present in the Assembly by Muhammad Ali Bogra on:

- A. 7th October 1953 ✓ **Correct answer**
- B. 27th October 1953
- C. 30th October 1953
- D. None of these

A. Prime Minister Muhammad Ali Bogra presented his constitutional formula (the Bogra Formula) to the Constituent Assembly on 7 October 1953.

C. Not the date of the presentation.

D. Wrong, since A is the date.

Question 63 Pakistan Studies

The Constitution of 1962 was enforced in the country on:

- A. 8th June 1962 ✓ **Correct answer**
- B. 8th July 1962
- C. 8th August 1962
- D. None of these

A. The 1962 Constitution was promulgated on 1 March 1962 and came into force on 8 June 1962.

B. A month late.

C. Two months late.

D. Wrong, since A is the enforcement date.

Question 64 Pakistan Studies

In term of temperature the hottest place in Pakistan is:

- A. Multan
- B. Sibi
- C. Jacobabad ✓ **Correct answer**
- D. None of these

A. Multan is very hot in summer, but it is not Pakistan's hottest place.

B. Sibi is famous for terrible summers and ranks among the hottest, but second to Jacobabad.

| is the hottest place in Pakistan, holding the national record of 52 °C (126 °F) in the shade, and regularly tops the world's hottest-city lists.

D. Wrong, since C is the hottest place.

Question 65 Pakistan Studies

The most important cash crop of Pakistan after cotton is:

- A. Maize
- B. Rice
- C. Sugarcane ✓ **Correct answer**
- D. None of these

A. Maize is a major crop, mainly for feed and food, but it is not the second cash crop after cotton.

B. The printed key, but wrong: rice is Pakistan's second most important cereal and a big export earner, yet the standard ranking of cash crops puts sugar second after cotton (FAO: "Sugar is also the second most important cash crop in Pakistan after cotton").

C. Sugarcane is Pakistan's second most important cash crop after cotton, feeding the sugar industry, the country's second-largest agro-industry after textiles.

D. Wrong, since C is the crop.

Question 66 Pakistan Studies

What was the constitution of agriculture sector to GDP of Pakistan in 2011-12

- A. 21% ✓ **Correct answer**
- B. 25%
- C. 29%
- D. None of these

A. Agriculture contributed about 21% of Pakistan's GDP in 2011–12 (Pakistan Economic

-12).

B. Higher than the 2011–12 share; agriculture's share had fallen below 25% by then.

C. Far above the 2011–12 share.

D. Wrong, since A is the share. ("Constitution" is a misprint of "contribution".)

Question 67 Pakistan Studies

In which province Gomal Zam is located:

- A. Punjab
- B. Sindh
- C. Baiochistan
- D. None of these ✓ **Correct answer**

A. The Gomal Zam Dam is not in Punjab.

B. The dam is not in Sindh.

C. The dam is not in Balochistan (though the Gomal River flows near the Balochistan border).

D. Correct: the Gomal Zam Dam is in South Waziristan, Khyber Pakhtunkhwa (formerly FATA) — a province that appears in none of the options.

Question 68 General Knowledge

The National bird of Pakistan is:

- A. Eagle
- B. Chukor ✓ **Correct answer**
- C. Falcon
- D. None of these

A. The eagle is a national emblem in some countries, but Pakistan's national bird is not the

B. The Chukar partridge (chukor) is the national bird of Pakistan.

C. The falcon is associated with Pakistan (e.g. the Shaheen), but the national bird is the chukar.

D. Wrong, since B is the national bird.

Question 69 Pakistan Studies

Urdu was declared national language of Pakistan in:

- A. April 1952
- B. April 1953
- C. April 1954 ✓ **Correct answer**
- D. None of these

A. 1952 was the year of the Language Movement (21 February 1952) in East Bengal, not the declaration of Urdu as national language.

B. No such declaration is recorded for April 1953.

C. The exam-bank answer, confirmed by several Pakistani GK sources (pakmcqs, mcqstop, pakistanwise): Urdu was declared the national language of Pakistan in April 1954.

D. Wrong, since C is the bank answer. Historical caveat: the underlying history is messier — Jinnah declared Urdu the state language at Dhaka on 21 March 1948, and constitutional status came only with the 1956 Constitution (Urdu and Bengali) and then Article 251 of the 1973 Constitution (Urdu alone); "April 1954" is the date the exam tradition uses.

Question 70 Islamic Studies

Who is called as Najeeb Ulfah?

- A. Hazrat Musa (AS)

rat Isa (AS)

- C. Hazrat Dawood (AS) ✓ **Correct answer**
- D. None of these

A. Musa (AS) is titled Kalimullah (the one who spoke with Allah), not Najeeb Ullah.

B. Isa (AS) is titled Ruhullah (the Spirit of Allah), not Najeeb Ullah.

C. Dawood (AS) is honoured with the title Najeeb Ullah ("the Noble/Chosen one of Allah") in Islamic tradition.

D. Wrong, since C holds the title. ("Najeeb Ulfah" is a misprint of "Najeeb Ullah".)

Question 71 Islamic Studies

How many stages are there in the Holy Quran?

- A. Eight stages
- B. eleven stages
- C. Seven stages ✓ **Correct answer**
- D. None of these

A. The Quran is not divided into eight stages.

B. No such division of the Quran exists.

C. The Holy Quran is divided into seven Manazil (stages) for weekly recitation.

D. Wrong, since C is the number of stages.

Question 72 Islamic Studies

Which religion is the favorite of God according to the Holly Quran?

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

A. Judaism is an earlier revealed religion, but the Quran (3:19) names Islam as the religion in the sight of Allah.

B. Christianity is an earlier revealed religion, but it is not the one named in Quran 3:19.

C. "Indeed, the religion in the sight of Allah is Islam" (Quran 3:19).

D. Wrong, since C is the religion named.

Question 73 Islamic Studies

Kalima Astaghfar is the kalima number:

- A. 2
- B. 5 ✓ **Correct answer**
- C. 6
- D. None of these

A. The 2nd kalima is Shahadat, not Astaghfar.

B. Of the six kalimas, the 5th is Astaghfar (1 Tayyab, 2 Shahadat, 3 Tamjeed, 4 Tauheed, 5 Astaghfar, 6 Radde Kufr).

C. The 6th kalima is Radde Kufr, not Astaghfar.

D. Wrong, since B is the number.

Question 74 Islamic Studies

According to the Holly Quran the men of kahf slept for a period of:

- A. 200 years
- B. 300 years ✓ **Correct answer**
- C. 309 years
- D. None of these

uranic figure.

B. Quran 18:25: "And they remained in the cave for three hundred years" — the standard exam answer.

C. The same verse continues "and exceeded by nine", so 309 is also defensible from the text; but the exam's standard answer, and the figure the verse leads with, is 300.

D. Wrong, since B is the standard answer.

Question 75 Islamic Studies

In which night Holly Quran was first revealed?

- A. Shab- e- Barat
- B. Shab- Miraj
- C. Laila -tul- Qadar ✓ **Correct answer**
- D. None of these

A. The 15th night of Sha'ban, a night of forgiveness, not the night of first revelation.

B. The night of the Prophet's (PBUH) ascension, not the night of first revelation.

C. The Quran was first revealed on Laylat al-Qadr, the Night of Decree in Ramadan (Quran 97:1).

D. Wrong, since C is the night.

Question 76 Islamic Studies

Which bird was sent by Hazrat Noah (AS) to search for land?

- A. Dove ✓ **Correct answer**
- B. Pigeon
- C. Woodpecker
- D. None of these

flood, Noah first sent a raven and then a dove to see whether the waters had receded; the dove returned with an olive leaf, showing dry land had appeared (Genesis 8:6–12).

B. A pigeon is a domesticated dove, but the bird of the story is named as the dove, not the pigeon.

C. The printed key, but wrong: no flood account sends a woodpecker to search for land.

D. Wrong, since A is the bird.

Question 77 Islamic Studies

The depth of Zam Zam well is.

- A. 100 feet ✓ **Correct answer**
- B. 120 feet
- C. 140 feet
- D. None of these

A. The Zamzam well in Makkah is about 30 metres deep, i.e. roughly 98–100 feet — the standard textbook figure.

B. About 20 feet deeper than the well actually is.

C. About 40 feet deeper than the well actually is.

D. Wrong, since A is the standard depth.

Question 78 Islamic Studies

Literal meaning of ' Ibices 'is:

- A. Angry one
- B. Disputlous one
- C. Disappointed one ✓ **Correct answer**

A. Iblees is not named for anger.

B. A misprint of "disputatious"; Iblees is not named for disputing.

C. "Iblees" (from the Arabic root b-l-s) literally means the disappointed or despairing one — one who has lost hope in Allah's mercy.

D. Wrong, since C is the literal meaning.

Question 79 Islamic Studies

Among slaves who accepted Islam first of all?

- A. Hazrat Bilal bin Rabah
- B. Hazrat Zaid bin Harrs ✓ **Correct answer**
- C. Hazrat Ammar bin yassir
- D. None of these

A. Bilal (RA) was an early Muslim and the first muezzin, but he was not the first among slaves to accept Islam.

B. Zaid bin Harithah (spelled "Harrs" on the page), the Prophet's (PBUH) freed slave and adopted son, was the first among slaves to accept Islam.

C. Ammar bin Yasir (RA) was among the earliest Muslims, but not the first among slaves.

D. Wrong, since B was the first among slaves.

Question 80 Everyday Science

The current through a conductor between two points is directly proportional to the voltage across the two points, is known as

- A. Kirchhoffs 1st law
- B. Kirchhoffs 2nd law

n's law ✓ **Correct answer**

- D. None of these

A. Kirchhoff's first (current) law says currents entering a junction equal currents leaving it, not that current is proportional to voltage.

B. Kirchhoff's second (voltage) law says the voltages round a closed loop sum to zero, not that current is proportional to voltage.

C. The statement is Ohm's law itself: V = IR, i.e. current is directly proportional to the voltage across the conductor.

D. The printed key, but wrong: the statement is the textbook definition of Ohm's law.

Question 81 Everyday Science

Electrical lines of force

- A. Intersect
- B. Are always parallel
- C. Never intersect ✓ **Correct answer**
- D. None of these

A. Lines of force never cross: at any point the field has a single direction.

B. Not always: lines of force spread out from charges and are parallel only in a uniform field.

C. Electric lines of force never intersect, because if they did, the field at the crossing would have two directions at once, which is impossible.

D. Wrong, since C is the property.

Question 82 Everyday Science

The times constant of circuit containing capacitance C and resistance R is

✓ Correct answer

- B. 1/RC
- C. R/C
- D. None of these

A. The time constant τ of an RC circuit is R × C (resistance times capacitance), measured in seconds.

B. That is the reciprocal of the time constant (an angular frequency), not the time constant.

C. Resistance divided by capacitance is not the time constant.

D. Wrong, since A is the time constant.

Question 83 Everyday Science

If two system A and B are in thermal equilibrium with a third system C then A and B are is thermal equilibrium with each other This is called

- A. First law of thermodynamics
- B. Second law of thermodynamics
- C. Zeroth law of thermodynamics ✓ **Correct answer**
- D. None of these

A. The first law is conservation of energy, not the transitivity of equilibrium.

B. The second law is about entropy increasing, not about equilibrium being transitive.

C. The zeroth law states exactly this: if A is in thermal equilibrium with C and B is in thermal equilibrium with C, then A and B are in thermal equilibrium with each other — the basis of temperature measurement.

D. Wrong, since C is the law.

84 Everyday Science

Which of the following elements is not present abundantly in Earth's crust?

- A. Silicone
- B. Radium ✓ **Correct answer**
- C. Aluminum
- D. None of these

A. "Silicone" is a misprint of silicon, the second most abundant element in the Earth's crust (about 28%).

B. Radium is a rare radioactive element present only in trace amounts in the crust.

C. Aluminium is the most abundant metal in the crust (about 8%).

D. Wrong, since B is the scarce element.

Question 85 Everyday Science

The main stimulant in tea leaves is:

- A. Leaves
- B. Caffeine ✓ **Correct answer**
- C. Grain
- D. None of these

A. Leaves are the part of the plant used, not the stimulant in them.

B. Caffeine is the stimulant alkaloid in tea (and coffee) leaves that keeps drinkers alert.

C. Grain is not present in tea leaves and is not the stimulant.

D. Wrong, since B is the stimulant.

Question 86 Everyday Science

The branch of science which deals with the nature of sound and its transmission is called;

- A. Acoustic ✓ **Correct answer**
- B. Aeronautics
- C. Mechanics
- D. None of these

A. Acoustics is the branch of science dealing with sound, its production, transmission and effects.

B. Aeronautics is the science of flight, not of sound.

C. Mechanics is the science of motion and forces in general; sound is only one small part of it.

D. Wrong, since A is the branch.

Question 87 Everyday Science

The study of energy production in living bodies is:

- A. Biology
- B. Biomechanics
- C. Bioenergetics ✓ **Correct answer**
- D. None of these

A. Biology is the whole science of living things, not specifically the study of energy production.

B. Biomechanics studies the mechanics of movement in living bodies, not energy production.

C. Bioenergetics is the study of how living organisms produce, store and use energy (e.g.

photosynthesis).

D. Wrong, since C is the branch.

Question 88 Everyday Science

Fruit without seed, like banana are called

- A. Seedless fruit
- B. Parthenogenesis fruit
- C. Parthenocapric fruit ✓ **Correct answer**
- D. None of these

A. "Seedless fruit" describes the result, but the scientific term for fruit formed without fertilisation is parthenocarpic.

B. Parthenogenesis is reproduction without fertilisation in animals, not the term for seedless fruit.

C. The page's spelling of "parthenocarpic": fruit that develops without fertilisation and so has no seeds, like the banana.

D. Wrong, since C is the term.

Question 89 Everyday Science

Sliver fish belongs to:

- A. Fish
- B. Insect ✓ **Correct answer**
- C. Reptile
- D. None of these

A. Despite the name "silverfish", it is not a fish; it lives on land and breathes air.

B. The silverfish (Lepisma saccharina) is a small, wingless, primitive insect found in houses.

d key, but wrong: a silverfish has six legs and no backbone, so it cannot be a reptile.

D. Wrong, since B is the class.

Question 90 Everyday Science

Vitamin C prevents the disease of:

- A. Scurvy ✓ **Correct answer**
- B. Heart attack
- C. Abdominal pain
- D. None of these

A. Lack of vitamin C causes scurvy (bleeding gums, weak connective tissue); vitamin C prevents it because it is needed for collagen.

B. Vitamin C does not prevent heart attacks.

C. Abdominal pain is a symptom, not a disease vitamin C prevents.

D. Wrong, since A is the disease.

Question 91 Everyday Science

Cyclone is:

- A. Centripetal force
- B. Centripetal acceleration
- C. Circular moving ✓ **Correct answer**
- D. None of these

A. A centripetal force acts on a body moving in a circle; a cyclone is a weather system, not a force.

B. An acceleration of circular motion, not a weather system.

is a large system of winds rotating (moving in a circle) around a low-pressure centre.

D. Wrong, since C is the intended description of the cyclone.

Question 92 Everyday Science

Galico discovered that falling bodies have some

- A. Velocity
- B. Acceleration ✓ **Correct answer**
- C. Speed
- D. None of these

A. Falling bodies gain velocity, but Galileo's discovery was about the rate of gain, not velocity itself.

B. Galileo ("Galico" on the page) discovered that falling bodies accelerate uniformly — all bodies fall with the same acceleration regardless of mass (ignoring air resistance).

C. Speed alone does not capture the discovery, which was about uniform acceleration.

D. Wrong, since B is the discovery.

Question 93 Everyday Science

Accessory Gland close to digestive system and duodenums

- A. Kidney
- B. Liver
- C. Pancreas
- D. None of these

No answer is given for this question, and none is taught. DEFECTIVE-excluded, decided by assistant under owner's 8 Nov delegation — no answer taught. Both the liver and the pancreas are accessory glands of the digestive system associated with the duodenum, so

not discriminate between B and C.

A. The kidney is part of the urinary system, not an accessory gland of digestion.

B. The printed key; the liver is an accessory gland of digestion whose bile duct opens into the duodenum.

C. The pancreas is also an accessory gland of digestion, and its head sits nestled in the curve of the duodenum, into which its duct opens — it fits "close to the duodenum" at least as well as the liver.

D. Not assertable, since both B and C are genuine accessory glands of the digestive system. **DEFECTIVE-excluded** — the stem does not discriminate between the two correct candidates, so the question must never be taught as having an answer.

Question 94 Everyday Science

PVC stands for:

- A. Poly -vinye chloride ✓ **Correct answer**
- B. Polyvinyle chlorine
- C. Poly - vinye carbon
- D. None of these

A. PVC is polyvinyl chloride (spelled "Poly-vinye chloride" on the page), the plastic made by polymerising vinyl chloride.

B. "Chlorine" is the element; the compound in the plastic is "chloride".

C. Carbon is not the distinguishing part of the name.

D. Wrong, since A is the expansion.

Question 95 Mathematics

If ten people can do a piece of work in 5 days, working 2 hours a day how long will 2

to do the same work, working 5 hours a day?

- A. 8 days
- B. 5 days
- C. 10 days ✓ **Correct answer**
- D. None of these

A. Too few: the total work is 100 man-hours, and 2 people at 5 hours a day do 10 man-hours a day.

B. That would be the time if the same 10 people worked 5 hours a day.

C. Total work = 10 people × 5 days × 2 hours = 100 man-hours; 2 people × 5 hours a day = 10 man-hours a day; 100 ÷ 10 = 10 days.

D. Wrong, since C is the time.

Question 96 Mathematics

Complete the scenes 2, 3, 5, 8, 12 ?

- A. 16
- B. 17 ✓ **Correct answer**
- C. 18
- D. None of these

A. One short: the gaps between terms grow by 1 each time (1, 2, 3, 4), so the next gap is 5.

B. Differences: 3 − 2 = 1, 5 − 3 = 2, 8 − 5 = 3, 12 − 8 = 4, so the next difference is 5 and 12 + 5 = 17.

C. One too many.

D. Wrong, since B is the next term. ("Scenes" is a misprint of "series".)

97 Everyday Science

Third shall in an orbit can hold up to

- A. 18 Electrons ✓ **Correct answer**
- B. 16 Electrons
- C. 14 Electrons
- D. None of these

A. The third shell (n = 3) holds at most $2n^2 = 2 \times 9 = 18$ electrons.

B. Two short of the shell's capacity.

C. Four short of the shell's capacity.

D. Wrong, since A is the capacity. ("Shall" is a misprint of "shell"; "orbit" means shell here.)

Question 98 Everyday Science

The third isotope of hydrogen is called

- A. Protium
- B. Deuterium
- C. Tritium ✓ **Correct answer**
- D. None of these

A. Protium (^{1}H) is the FIRST isotope of hydrogen (one proton, no neutrons).

B. Deuterium (^{2}H) is the SECOND isotope of hydrogen (one proton, one neutron).

C. Tritium (^{3}H) is the THIRD isotope of hydrogen (one proton, two neutrons).

D. Wrong, since C is the third isotope.

Question 99 Everyday Science

The ozone gas

troys the floating germs in the air ✓ **Correct answer**

- B. Increases the floating germs in the air
- C. Decreases the floating germs in the air
- D. None of these

A. Ozone is a strong oxidant and disinfectant: it destroys airborne germs, which is why it is used to sterilise air and water.

B. The opposite of what ozone does.

C. Ozone does reduce germ numbers, but "destroys" is the stronger and intended description of its disinfectant action, and A is the printed key.

D. Wrong, since A is the effect.

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