Research Officer in Senate, BPS-17 — 2010 · Solved Past Paper

Body: Federal Public Service Commission (FPSC) · **Post:** Research Officer in Senate, BPS-17 · **Year:** 2010 · **Questions:** 100 in the original paper — **99 solved and verified**, 1 excluded as defective (Q95) · **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 2010 sitting.

Source note: test360.pk reproduction, 'Model Paper FPSC Research Officer in Senate BPS-17 2010' (test 1370; states 100 total, shows all 100 stems Q1-Q100; 97 carry a printed key, 3 do not: Q38, Q45, Q50; accessed 13 Nov 2026). No second full reproduction found; answers verified independently. 97 VERIFIED + 2 SINGLE-SOURCE (Q83, Q84) + 1 DEFECTIVE-excluded (Q95), all decided by the assistant under the owner's 8 Nov 2026 delegation. 9 printed keys corrected openly (Q6, Q8, Q11, Q26, Q41, Q71, Q73, Q82, Q86). Q41 corrected to 9,48 under Factories Act 1934 ss.34/36. Q65 filed perimeter unit '280 cm' treated as 280 m (breadth is 60 m). Q57 stem truncated; keyed answer 16 is Saddam's present age. Dedup 13 Nov 2026 vs all 77 live FPSC papers (6,942 stems): 7 exact matches (7%), spread across several live papers — isolated reuse, not a duplicate paper.

Question 1 English

Over 90 per cent of coals,_____ the electricity sector.

- A. Won by
- B. earmarked by
- C. consumed by ✓ **Correct answer**

A. Coal is not "won by" the electricity sector.

B. Coal is not "earmarked by" the electricity sector.

C. Over 90 per cent of coal is consumed by the electricity sector.

D. Coal is not "retained by" the electricity sector.

Question 2 English

------- can arise out of Off -market Trades or Market Trades.

- A. Registrations
- B. Alterations
- C. Allocation
- D. Transfers ✓ **Correct answer**

A. Registrations do not arise out of market trades in this sense.

B. Alterations do not arise out of market trades in this sense.

C. Allocation is not what arises out of market trades here.

D. Transfers can arise out of off-market trades or market trades.

Question 3 English

The burger giant_____ its year-end store count in a newspaper article last month.

- A. confessed
- B. disclosed ✓ **Correct answer**
- C. retaliated
- D. engaged

A. One confesses a fault, not a store count.

...r giant disclosed (revealed) its year-end store count.

C. Retaliation is revenge, not revealing a figure.

D. "Engaged" does not fit the sentence.

Question 4 English

The doctor advised him to include mango in his diet,____ to Vitamin A, C and D.

- A. That is adequate
- B. That provided him
- C. which is richly supplied
- D. which is a rich source ✓ **Correct answer**

A. This does not complete the sentence correctly.

B. This does not complete the sentence correctly.

C. This is ungrammatical and does not fit.

D. Mango is a rich source of vitamins A, C and D, so the clause fits.

Question 5 English

At a very young age, he___ as a mining engineer.

- A. activated his life
- B. arrived at his destiny
- C. began his career ✓ **Correct answer**
- D. train himself

A. This is not idiomatic English.

B. This does not fit a young engineer's start.

C. At a very young age, he began his career as a mining engineer.

grammatical in this sentence.

Question 6 English

Money ____ consists of coins, paper money and bank deposit that can be withdraw.

- A. as an advance
- B. as it implies
- C. as a means of salary
- D. as a means of payment ✓ **Correct answer**

A. Money is not defined as an advance.

B. The printed key, but wrong: this does not complete the definition.

C. Money is not defined as a means of salary.

D. Money, as a means of payment, consists of coins, paper money and bank deposits that can be withdrawn.

Note: Note: printed key B is WRONG; the answer is D.

Question 7 English

Major chemicals undergo several stages of processing ___ into downstream chemicals.

- A. to renovate
- B. to be improved
- C. so as to be adopted
- D. to be converted ✓ **Correct answer**

A. Chemicals are not renovated.

B. Processing is not about improvement here.

C. Chemicals are not adopted.

micals undergo processing to be converted into downstream chemicals.

Question 8 English

Like the theory of evolution, the big-bang model of the universe's formation has undergone modification and ____but it has___ all serious challenges.

- A. alteration confirmed (unlikely to change)
- B. refinement resisted (use force to prevent advance) ✓ **Correct answer**
- C. transformation, ignored
- D. evaluation (to evaluate) acknowledged

A. The printed key, but wrong: "confirmed" does not pair with the sense of the sentence.

B. The big-bang model has undergone refinement and resisted all serious challenges.

C. The model has not ignored challenges.

D. "Acknowledged" does not fit the sense of withstanding challenges.

Note: Note: printed key A is WRONG; the answer is B.

Question 9 English

With the multinational companies entering the market, domestic companies are at a low add these days,

- A. Without profit
- B. With less profit
- C. On the decline ✓ **Correct answer**
- D. With moderate profit

A. "At a low ebb" does not mean without profit.

B. "At a low ebb" is about decline, not profit levels.

C. "At a low ebb" (filed "at a low add") means on the decline, at a low point.

ebb" is not about moderate profit.

Question 10 English

When a person is given certain duties to perform he must be _____.

- A. given necessary authority also ✓ **Correct answer**
- B. enforced with law as well
- C. assigned necessary duties
- D. able to realize the law

A. Authority must go with responsibility: a person given duties must also be given the authority to carry them out.

B. This does not complete the principle.

C. The duties are already given; this repeats the premise.

D. This does not complete the principle.

Question 11 English

He is greatly admired for his ____ behaviour.

- A. decorous ✓ **Correct answer**
- B. decadent
- C. decorative
- D. decrepit

A. "Decorous" means proper and dignified, behaviour to be admired.

B. Decadent means morally declining, not admirable.

C. The printed key, but wrong: "decorative" means ornamental, not a quality of behaviour to admire.

D. Decrepit means worn out with age, not admirable.

printed key C is WRONG, the answer is A.

Question 12 English

Hindus believe that ____ from the cycle of birth and rebirth can be attained only by goods deeds.

- A. delivery
- B. bondage
- C. retirement
- D. deliverance ✓ **Correct answer**

A. Delivery is the act of handing something over, not release from rebirth.

B. Bondage is the opposite of release from the cycle.

C. Retirement is not release from the cycle of birth and rebirth.

D. Deliverance (moksha) from the cycle of birth and rebirth is attained by good deeds.

Question 13 English

He is working under such conditions that it is ____ for him to maintain his self -respect..

- A. low
- B. inimical
- C. difficult ✓ **Correct answer**
- D. humiliating

A. "Low" does not fit the sentence.

B. Inimical means hostile, which does not fit the sentence.

C. It is difficult for him to maintain his self-respect under such conditions.

D. Humiliating is possible, but "difficult" is the paper's answer.

14 English

We have in America a_____ speech that is neither American, oxford English, nor colloquial Eng but_____of all three.

- A. motley (of various colors) an enhancement (to increase)
- B. hybrid a combination(mixtureof two things) ✓ **Correct answer**
- C. nasal a blend (mix together)
- D. mangled a medley

A. "Enhancement" does not fit the second blank.

B. American speech is a hybrid, a combination of American, Oxford English and colloquial English.

C. "Nasal" describes a sound, not a kind of speech.

D. "Mangled" means damaged, which does not fit.

Question 15 English

Nareen had a cold and could not go to the party, so I bought her a cake to make up for her

- A. depression
- B. disillusion
- C. disgust
- D. disappointment ✓ **Correct answer**

A. Missing a party causes disappointment, not depression.

B. Disillusion is loss of belief, not missing a party.

C. Disgust is revulsion, not missing a party.

D. The cake was to make up for her disappointment at missing the party.

16 English

Would you mind _____to the principal how the trouble started?

- A. remarking
- B. telling
- C. talking
- D. explaining ✓ **Correct answer**

A. "Remarking to" does not fit the sentence.

B. "Telling to" is ungrammatical here.

C. "Talking to the principal how" is ungrammatical.

D. "Would you mind explaining to the principal how the trouble started?" is the correct form.

Question 17 English

The world is so constructed that if you wish to enjoy its pleasures,denyyou much also

- A. deny
- B. neglec
- C. ignore
- D. endure ✓ **Correct answer**

A. The sentence needs a word meaning to bear hardships, not to deny.

B. Neglect does not fit the sentence.

C. Ignore does not fit the sentence.

D. To enjoy the world's pleasures, you must also endure its pains.

18 English

The drug will have pernicious effect on your health.

- A. Pronographic
- B. ruinous ✓ **Correct answer**
- C. Prologed
- D. benefictal

A. This is a garbled word, not a synonym of pernicious.

B. "Pernicious" means harmful or ruinous.

C. "Prolonged" means extended in time, not pernicious.

D. "Beneficial" is the opposite of pernicious.

Question 19 English

Japan 's industrial success is------ in pret to its tradition of group effort and ____ as opposed to the emphasis on personal achievement that is a prominent aspect of other industrial nations.

- A. responsive, independence
- B. related, (connected) introspection
- C. equaling, solidarity
- D. attributed, cooperation ✓ **Correct answer**

A. "Independence" contradicts the group-effort sense.

B. "Introspection" does not fit the sentence.

C. "Equaling" does not fit the sentence.

D. Japan's industrial success is attributed in part to its tradition of group effort and cooperation.

20 English

We are afraid you may not be led astray in by bad company.

- A. get into trouble
- B. misguided ✓ **Correct answer**
- C. Killed
- D. lose the job

A. Close, but "led astray" means misguided.

B. "To be led astray" means to be misguided, led into wrong ways.

C. "Led astray" does not mean killed.

D. "Led astray" does not mean losing a job.

Question 21 Pakistan Studies

Who was the first Air Marshal of Pakistan?

- A. Asghar Khan ✓ **Correct answer**
- B. Yahya Khan
- C. Amjad Hussain
- D. Kalim Saadat

A. Asghar Khan was the first Air Marshal (and first Commander-in-Chief) of the Pakistan Air Force.

B. Yahya Khan was an army general, not the first Air Marshal.

C. Amjad Hussain was not the first Air Marshal.

D. Kalim Saadat was a later air chief, not the first.

22 Pakistan Studies

The first person who translated Holy Quran in to Urdu

- A. Shah Waliullha
- B. Abdul Qadir ✓ **Correct answer**
- C. Shah Abdul Aziz
- D. Ahmad Raza Khan

A. Shah Waliullah translated the Quran into Persian, not Urdu.

B. Shah Abdul Qadir, son of Shah Abdul Aziz, made the first Urdu translation of the Quran.

C. Shah Abdul Aziz translated the Quran into Urdu too, but his son Abdul Qadir's translation is credited as the first.

D. Ahmad Raza Khan did not make the first Urdu translation.

Question 23 General Knowledge

The International Court of Justice is in:

- A. London
- B. New York
- C. Paris
- D. Hague ✓ **Correct answer**

A. The ICJ is not in London.

B. The UN headquarters is in New York, but the ICJ is not there.

C. The ICJ is not in Paris.

D. The International Court of Justice sits at The Hague, Netherlands.

24 Pakistan Studies

Mangla Dam is situated in

- A. Azad Kashmir ✓ **Correct answer**
- B. N.W.F.P
- C. Punjab
- D. Sindh

A. Mangla Dam is in Mirpur, Azad Jammu and Kashmir.

B. Mangla Dam is not in Khyber Pakhtunkhwa.

C. Mangla Dam is not in Punjab (though it is near the Punjab border).

D. Mangla Dam is not in Sindh.

Question 25 General Knowledge

The capital of Morocco is

- A. Suva
- B. Rabat ✓ **Correct answer**
- C. Accra
- D. None

A. Suva is the capital of Fiji, not Morocco.

B. Rabat is the capital of Morocco.

C. Accra is the capital of Ghana, not Morocco.

D. B is correct, so "None" is wrong.

Question 26 General Knowledge

Which is called the land of "Thousand Lakes"?

land ✓ Correct answer

- B. Indonesia
- C. Thailand
- D. Japan

A. Finland is called the "Land of a Thousand Lakes".

B. Indonesia is not called the land of a thousand lakes.

C. Thailand is not called the land of a thousand lakes.

D. The printed key, but wrong: Japan is not called the land of a thousand lakes.

Note: Note: printed key D is WRONG; the answer is A.

Question 27 Pakistan Studies

N.W.F.P got the status of province:

- A. 1935 ✓ **Correct answer**
- B. 1930
- C. 1940
- D. 1947

A. The North-West Frontier Province got provincial status under the Government of India Act 1935 (effective 1937).

B. NWFP did not get provincial status in 1930.

C. NWFP did not get provincial status in 1940.

D. NWFP was already a province before 1947.

Question 28 Pakistan Studies

When Gwadar become the Part of Pakistan:

- B. 1950
- C. 1956
- D. 1958 ✓ **Correct answer**

A. Gwadar was still under Oman in 1947.

B. Gwadar was still under Oman in 1950.

C. Gwadar was still under Oman in 1956.

D. Pakistan bought Gwadar from Oman in 1958.

Question 29 Pakistan Studies

Objective Resolution was presented by

- A. Quaid -e-Azam
- B. Liaquat Ali Khan ✓ **Correct answer**
- C. Major General Sikandar Mirza
- D. Malik Ghulam Muhammad

A. Jinnah did not present the Objectives Resolution.

B. Liaquat Ali Khan presented the Objectives Resolution in March 1949.

C. Sikandar Mirza did not present the Objectives Resolution.

D. Malik Ghulam Muhammad did not present the Objectives Resolution.

Question 30 Pakistan Studies

Pakistan became the member of UNO in:

- A. 30 September. 1947 ✓ **Correct answer**
- B. 14 August. 1947
- C. 24 October. 1947

A. Pakistan became a member of the United Nations on 30 September 1947.

B. 14 August 1947 is Independence Day, not UN membership.

C. Not the date Pakistan joined the UN.

D. Not the date Pakistan joined the UN.

Question 31 General Knowledge

Pedagogy is the science of:

- A. Birds
- B. Space
- C. Pharmacy
- D. Teaching ✓ **Correct answer**

A. The science of birds is ornithology, not pedagogy.

B. The science of space is astronomy, not pedagogy.

C. Pharmacy is the science of medicines, not pedagogy.

D. Pedagogy is the science (method and practice) of teaching.

Question 32 General Knowledge

The Headquarters of EFTA is in:

- A. London
- B. Geneva ✓ **Correct answer**
- C. Rome
- D. Paris

A. EFTA's headquarters is not in London.

ean Free Trade Association is headquartered in Geneva, Switzerland.

C. EFTA's headquarters is not in Rome.

D. EFTA's headquarters is not in Paris.

Question 33 General Knowledge

The youngest mountain range in the world?

- A. Satpur
- B. Alps
- C. Himayala ✓ **Correct answer**
- D. None

A. The Satpura range is not the youngest in the world.

B. The Alps are young, but the Himalaya is the youngest major range.

C. The Himalaya is the youngest mountain range in the world.

D. C is correct, so "None" is wrong.

Question 34 General Knowledge

When the Stock Market is going down, it is called;

- A. Bearish ✓ **Correct answer**
- B. Bullish
- C. Crashing
- D. Slumberous

A. A falling market is called a bearish (bear) market.

B. A bullish market is a rising market, the opposite.

C. A crash is a sudden sharp fall, not the general term for a falling market.

: a stock-market term.

Question 35 General Knowledge

The famous painting "Sunflower" was done by

- A. Michael Angelo
- B. Van Gogh ✓ **Correct answer**
- C. Pablo Picasso
- D. Leonardo da Vinci

A. Michelangelo did not paint Sunflowers.

B. Vincent van Gogh painted the Sunflowers series.

C. Picasso did not paint Sunflowers.

D. Leonardo did not paint Sunflowers.

Question 36 General Knowledge

"Thomas Cup" is given in the game of:

- A. Lawn Tennis
- B. Golf
- C. Table Tennis
- D. Badminton ✓ **Correct answer**

A. The Thomas Cup is not a tennis trophy.

B. The Thomas Cup is not a golf trophy.

C. The Thomas Cup is not a table-tennis trophy.

D. The Thomas Cup is the men's world team badminton championship.

37 General Knowledge

Baikal Lake is situated in:

- A. Kazakhstan
- B. Russia ✓ **Correct answer**
- C. USA
- D. Angola

A. Lake Baikal is not in Kazakhstan.

B. Lake Baikal is in Siberia, Russia.

C. Lake Baikal is not in the USA.

D. Lake Baikal is not in Angola.

Question 38 General Knowledge

Yangtze river does not pass through which of the country;

- A. Mongolia
- B. Thailand
- C. Taiwan
- D. All of these ✓ **Correct answer**

A. The Yangtze does not pass through Mongolia, but this is only part of the answer.

B. The Yangtze does not pass through Thailand, but this is only part of the answer.

C. The Yangtze does not pass through Taiwan, but this is only part of the answer.

D. The Yangtze flows entirely within China, so it passes through none of Mongolia, Thailand or Taiwan.

Note: Note: the page shows no printed key for this question; the answer was verified independently.

39 General Knowledge

Stock indices at Tokyo are known by their popular name of:

- A. Dow Jones
- B. Hang Seng
- C. Nikkei ✓ **Correct answer**
- D. FTSE

A. The Dow Jones is the US index, not Tokyo's.

B. The Hang Seng is Hong Kong's index, not Tokyo's.

C. The Nikkei is the Tokyo stock market index.

D. The FTSE is London's index, not Tokyo's.

Question 40 General Knowledge

In torts, the principal "Restitutio and integrum" means

- A. Compensation for damages
- B. Restoration to the original condition ✓ **Correct answer**
- C. Restriction on integration
- D. None

A. Compensation is the remedy, but restitutio in integrum means restoration to the original condition.

B. Restitutio in integrum is the principle of restoring the injured party to the position they were in before the wrong.

C. This is not what the phrase means.

D. B is correct, so "None" is wrong.

41 General Knowledge

Under the Factories Act, 1934 no adult employee defined as a worker who has completed his or her 18th year of age can be required or permitted to work in any establishment in excess of ___ hours a day and ____ hours a week.

- A. 7,42
- B. 8,48
- C. 9,48 ✓ **Correct answer**
- D. 8,56

A. Wrong: the Factories Act 1934 limits are not 7 hours a day and 42 a week.

B. The printed key, but wrong: the Factories Act 1934 (sections 34 and 36) sets the adult limit at 9 hours a day and 48 hours a week.

C. Under the Factories Act 1934, an adult worker may not work more than 9 hours a day or 48 hours a week.

D. Wrong: the Factories Act 1934 limits are not 8 hours a day and 56 a week.

Note: Note: printed key B is WRONG; the answer is C.

Question 42 General Knowledge

Sui generic is a Latin term of:

- A. Unique ✓ **Correct answer**
- B. Generous
- C. Sui gas
- D. Common

A. "Sui generis" means of its own kind, unique.

B. "Sui generis" does not mean generous.

C. Sui gas is unrelated to the Latin term.

is" means the opposite of common.

Question 43 General Knowledge

Which one of the following statement is false?

- A. 'Unenforceable' means that there is no remedy for breach of our convention
- B. The law of the Constitution are in forceable in the courts
- C. The conversations of the constitution are binding political rules which are not enforceable in the courts
- D. Constitution conventions are not binding on anyone ✓ **Correct answer**

A. This is a true statement about conventions.

B. This is true: constitutional law is enforceable in the courts.

C. This is true: conventions are binding political rules but not court-enforceable.

D. This is the false statement: constitutional conventions ARE binding political rules, even though they are not enforceable in the courts.

Question 44 General Knowledge

Sylhet District at the time of partition was part of the province of:

- A. Bengal
- B. Assam ✓ **Correct answer**
- C. Bihar
- D. United Province

A. Sylhet joined East Bengal after partition, but at partition it was part of Assam.

B. At the time of partition, Sylhet District was part of Assam province (it voted by referendum to join East Bengal).

C. Sylhet was not part of Bihar.

s not part of the United Provinces.

Question 45 General Knowledge

A voucher may be

- A. Payment bill
- B. Wages Sheet
- C. Bank Receipt
- D. All of these ✓ **Correct answer**

A. A voucher may be a payment bill, but this is only part of the answer.

B. A voucher may be a wages sheet, but this is only part of the answer.

C. A voucher may be a bank receipt, but this is only part of the answer.

D. A voucher may take any of these forms.

Note: Note: the page shows no printed key for this question; the answer was verified independently.

Question 46 General Knowledge

A change in an individual's behaviour promated by information and experience refers to which one of the following concept?

- A. Learning ✓ **Correct answer**
- B. Role Selection
- C. Perception
- D. Motivation

A. A change in behaviour brought about by information and experience is learning.

B. Role selection is choosing a social role, not behaviour change from experience.

C. Perception is how things are seen, not behaviour change from experience.

n is the drive to act, not the behaviour change itself.

Question 47 General Knowledge

What was the name of the Libyan King deposed by Colonel Gadhafi in 1969?

- A. King Abdullah
- B. King Idris ✓ **Correct answer**
- C. King Saud
- D. King Sadaat

A. Abdullah was not the Libyan king deposed in 1969.

B. King Idris I of Libya was deposed by Gaddafi in 1969.

C. Saud was a Saudi king, not the Libyan king.

D. Sadat was an Egyptian president, not the Libyan king.

Question 48 General Knowledge

The headquarters of APEC (Asia Pacific Economic Cooperation) is in:

- A. China
- B. Japan
- C. Malaysia
- D. Singapore ✓ **Correct answer**

A. APEC's headquarters is not in China.

B. APEC's headquarters is not in Japan.

C. APEC's headquarters is not in Malaysia.

D. APEC (Asia-Pacific Economic Cooperation) is headquartered in Singapore.

49 General Knowledge

Kyoto protocol talks about:

- A. Employment
- B. Pollution ✓ **Correct answer**
- C. Agriculture
- D. None

A. The Kyoto Protocol is not about employment.

B. The Kyoto Protocol deals with greenhouse-gas emissions (pollution) and climate change.

C. The Kyoto Protocol is not about agriculture.

D. B is correct, so "None" is wrong.

Question 50 Mathematics

When three coins are tossed together the probability that all coins have the same face up is

- A. 1/3
- B. 1/6
- C. 1/8
- D. None ✓ **Correct answer**

A. Wrong: the probability is not 1/3.

B. Wrong: the probability is not 1/6.

C. Wrong: 1/8 is the probability of one specific outcome (all heads), not all coins the same.

D. There are 8 equally likely outcomes; two of them (all heads, all tails) have all coins the same, so the probability is 2/8 = 1/4, which is not among the options.

the page shows no printed key for this question; the answer was verified independently.

Question 51 Mathematics

If the nominated and the denominator of a fraction are both increased by 1, the fraction became 3/5. If both are decreased by 1, it becomes 5/9. Find the fraction

- A. 19/11
- B. 11/19 ✓ **Correct answer**
- C. 5/9
- D. None of these

A. Wrong: this is the fraction upside down.

B. Let the fraction be x/y: (x + 1)/(y + 1) = 3/5 and (x − 1)/(y − 1) = 5/9; solving gives x = 11 and y = 19.

C. Wrong: 5/9 is one of the given values, not the fraction.

D. B is correct, so "None of these" is wrong.

Question 52 Mathematics

What number is 20% more than 9000?

- A. 10, 200
- B. 10,900
- C. 10,800 ✓ **Correct answer**
- D. None of the above

A. Wrong: 10,200 is only about 13% more than 9,000.

B. Wrong: 10,900 is about 21% more than 9,000.

C. 20% of 9,000 is 1,800, and 9,000 + 1,800 = 10,800.

ct, so "None of the above" is wrong.

Question 53 Mathematics

Six times the sum of the digits of a two digit number is one less than the number and eight more than the number obtained by reversing the digits of the number. Find the product of the numbe.

- A. 34
- B. 43
- C. 12 ✓ **Correct answer**
- D. 28

A. Wrong: 34 is the reversed number, not the product of the digits.

B. Wrong: 43 is the number itself, not the product of the digits.

C. The number is 43: six times the digit sum is 6 × 7 = 42, which is one less than 43 and eight more than the reversed number 34; the product of the digits is 4 × 3 = 12.

D. Wrong: it does not follow from the digits of 43.

Question 54 Mathematics

A man purchases to clocks A and B at a total cost of Rs. 650. He sells A with 20% profit and B at a loss of 25% and gets the same selling price for both the clocks. What are the purchasing prices of A and B respectively

- A. Rs. 225; RS. 425
- B. Rs. 250; Rs. 400 ✓ **Correct answer**
- C. Rs. 275; Rs. 375
- D. Rs. 300; Rs. 350

A. Wrong: 1.2 × 225 = 270, but 0.75 × 425 = 318.75, not equal.

B. The total is 650, and 1.2 × 250 = 300 equals 0.75 × 400 = 300, so the selling prices match.

2 × 275 = 330, but 0.75 × 375 = 281.25, not equal.

D. Wrong: 1.2 × 300 = 360, but 0.75 × 350 = 262.50, not equal.

Question 55 Mathematics

If 15 pumps of equal capacity can fill tank in 7 days then how many extra pumps will be required to fill the tank in 5 days?

- A. 6 ✓ **Correct answer**
- B. 7
- C. 14
- D. 21

A. The job needs 15 × 7 = 105 pump-days; in 5 days it needs 105 ÷ 5 = 21 pumps, which is 6 more than 15.

B. Wrong: it does not follow from 105 pump-days.

C. Wrong: it does not follow from 105 pump-days.

D. 21 is the total number of pumps needed, not the extra number.

Question 56 Mathematics

A man is 24 years older than his son. In 2 years the age will be twist the age of his son. The present age of his son is

- A. 12 years
- B. 15 years
- C. 18 years
- D. 22 years ✓ **Correct answer**

A. Wrong: it does not satisfy the condition in 2 years.

B. Wrong: it does not satisfy the condition in 2 years.

does not satisfy the condition in 2 years.

D. Let the son be s: the man is s + 24; in 2 years, s + 26 = 2(s + 2), giving s = 22.

Question 57 Mathematics

6 years ago, the ratio of the ages of Khalid and Saddam was 6 : 5. Four years hence of their ages win be 11 : 10. What is the age of present

- A. 16 years ✓ **Correct answer**
- B. 20 years
- C. 22 years
- D. 25 years

A. Six years ago their ages were 6k and 5k; four years hence they are 6k + 10 and 5k + 10 in the ratio 11:10, giving k = 2, so Saddam's present age is 5 × 2 + 6 = 16.

B. Wrong: it does not satisfy the ratios.

C. Wrong: it does not satisfy the ratios.

D. Wrong: it does not satisfy the ratios.

Note: Note: the filed stem is truncated ("What is the age of present" — it does not say whose age); the keyed answer 16 is Saddam's present age (Khalid's is 18).

Question 58 Mathematics

One local and another express train were proceeding in the same direction on parallel tracks at 29 km/ hour and 65 km/hour respectively. The driver of the former noticed that it took exactly 16 seconds for the faster train to pass by him. What is the length of the faster train

- A. 60 m
- B. 120 m
- C. 160 m ✓ **Correct answer.**

A. Wrong: it does not follow from the relative speed and time.

B. Wrong: it does not follow from the relative speed and time.

C. The relative speed is 65 − 29 = 36 km/h = 10 m/s, and in 16 seconds the faster train covers 10 × 16 = 160 m.

D. Wrong: it does not follow from the relative speed and time.

Question 59 Mathematics

The hurricane in the October 2012 which caused wide spread damage in the eastern sea-board states of the USA is:

- A. Katrina
- B. Sandy ✓ **Correct answer**
- C. Isaac
- D. Irene

A. Hurricane Katrina struck in 2005, not October 2012.

B. Hurricane Sandy struck the US East Coast in October 2012.

C. Hurricane Isaac struck in 2012 but on the Gulf Coast, not the eastern seaboard.

D. Hurricane Irene struck in 2011, not October 2012.

Question 60 Mathematics

How many pieces of 85cm length can be cut from rod 42.5 metres long?

- A. 20
- B. 40
- C. 50 ✓ **Correct answer**
- D. 30

.5 m ÷ 0.85 m is not 20.

B. Wrong: 42.5 m ÷ 0.85 m is not 40.

C. 42.5 metres is 4,250 cm, and 4,250 ÷ 85 = 50 pieces.

D. Wrong: 42.5 m ÷ 0.85 m is not 30.

Question 61 Mathematics

The sum of the present ages of a father and his son is 60 years. 6 years ago, father's age was five times the age of the son. After 6 years, son's will be

- A. 10 years
- B. 12 years
- C. 16 years
- D. 20 years ✓ **Correct answer**

A. Wrong: it does not satisfy the ages.

B. Wrong: it does not satisfy the ages.

C. Wrong: it does not satisfy the ages.

D. Let the son be s: the father is 60 − s; six years ago, 54 − s = 5(s − 6), giving s = 14 now, so after 6 years the son will be 20.

Question 62 Mathematics

An accurate clock shows the time as 3.00. After hour and is moved 135° the time would be

- A. 7.30 ✓ **Correct answer**
- B. 6.30
- C. 8 00
- D. 9.30

hand moves 30° per hour, so 135° is 4.5 hours; 3:00 plus 4.5 hours is 7:30.

B. Wrong: 135° is 4.5 hours, not 3.5.

C. Wrong: 135° is 4.5 hours, not 5.

D. Wrong: 135° is 4.5 hours, not 6.5.

Question 63 Mathematics

In a class there are 18 boys who are oveppr 160 cm taplllpll if these boys constitute three -fourths of the boys and the total number of boys is two third of the number of students in the class, then what is the number of girls in the class?

- A. 6
- B. 12 ✓ **Correct answer**
- C. 18
- D. 25

A. Wrong: it does not follow from the proportions.

B. 18 boys are three-fourths of the boys, so there are 24 boys; the boys are two-thirds of the class, so the class has 36 students and 12 girls.

C. Wrong: 18 is the number of tall boys, not the number of girls.

D. Wrong: it does not follow from the proportions.

Question 64 Mathematics

A wire in the form of a circle of radius 42 cm is cut and bent in the form of a square the formed is

- A. 21 cm
- B. 66 cm ✓ **Correct answer**
- C. 33 cm

cm

A. Wrong: it does not follow from the wire's length.

B. The wire's length is the circle's circumference, $2\pi \times 42 = 264$ cm; bent into a square, each side is $264 \div 4 = 66$ cm.

C. Wrong: it does not follow from the wire's length.

D. Wrong: it does not follow from the wire's length.

Question 65 Mathematics

The parameter of a rectangular field is 280 cm and its breadth is 60 m. The length of its diagonal is closed to

- A. 96 m
- B. 98.8 m
- C. 100 m ✓ **Correct answer**
- D. 103.75 m

A. Wrong: it does not follow from the field's dimensions.

B. Wrong: it does not follow from the field's dimensions.

C. Taking the perimeter as 280 m (the filed "280 cm" is a unit misprint, since the breadth is 60 m), the length is $(280 - 120) \div 2 = 80$ m, and the diagonal is $\sqrt{(80^2 + 60^2)} = 100$ m.

D. Wrong: it does not follow from the field's dimensions.

Note: Note: the filed perimeter unit "280 cm" is a misprint; the question only works with 280 m, as the breadth is given in metres.

Question 66 Mathematics

A bag contains 20 balls 8 balls are green, 7 are white and 5 are red. What is the minimum

balls that must be picked up from the bag blind-folded (without replacing any of it) to be assured of picking at least one ball of each colour?

- A. 4
- B. 7
- C. 11
- D. 16 ✓ **Correct answer**

A. Wrong: one could pick 4 balls all of one colour.

B. Wrong: one could pick all 7 white balls and still have no green or red.

C. Wrong: one could pick all 8 green and 3 white and still have no red.

D. In the worst case one picks all 8 green and all 7 white (15 balls) with no red; the 16th ball must be red, guaranteeing one of each colour.

Question 67 Mathematics

A club has 108 members. Two-thirds of them are men and the rest our women. All members are married except for 9 women members. How many married women are there in the club?

- A. 20
- B. 24
- C. 27 ✓ **Correct answer**
- D. 30

A. Wrong: it does not follow from the numbers.

B. Wrong: it does not follow from the numbers.

C. Two-thirds of 108 are men (72), so there are 36 women; 9 women are unmarried, leaving 36 − 9 = 27 married women.

D. Wrong: it does not follow from the numbers.

68 Mathematics

A 5-foot long cylindrical pipe has an inner diameter of 6 feet and an outer diameter of 8-feet. If the total surface area (inside and out, including the ends) is kn, what is the value of k?

- A. 7
- B. 40
- C. 48
- D. 84 ✓ **Correct answer**

A. Wrong: it does not follow from the pipe's dimensions.

B. Wrong: 40π is only the outer lateral area.

C. Wrong: it does not follow from the pipe's dimensions.

D. Outer lateral area is π × 8 × 5 = 40π, inner lateral area is π × 6 × 5 = 30π, and the two ends together are $2\pi(4^2 - 3^2) = 14\pi$; the total is 84π, so k = 84.

Question 69 Mathematics

A dishonest shopkeeper uses false balance and cheats a customer by giving 20% less quantity of food. His profit is.

- A. 80%
- B. 75%
- C. 25% ✓ **Correct answer**
- D. 20%

A. Wrong: 80% is the quantity given, not the profit.

B. Wrong: it does not follow from giving 20% less.

C. The customer pays for 1 kg but receives 0.8 kg, so the profit on the cost of what is given is 0.2 ÷ 0.8 = 25%.

)% is the shortfall in quantity, not the profit percentage.

Question 70 Mathematics

A complete cycle of a traffic light takes 60 seconds. During each cycle the light is green for 25 second, yellow for 5 second and red for 30 second. At a randomly chosen time, the probability that the light will not be green is

- A. 1/3
- B. 1/4
- C. 5/12
- D. 7/12 ✓ **Correct answer**

A. Wrong: the non-green time is 35 of 60 seconds, not 20.

B. Wrong: the non-green time is 35 of 60 seconds, not 15.

C. Wrong: 5/12 is the probability the light is green (25 of 60).

D. The light is not green for 5 + 30 = 35 of the 60 seconds, so the probability is 35/60 = 7/12.

Question 71 Everyday Science

Which of the following copper alloys is used for the manufacturing of control valves?

- A. Brass
- B. Bronze
- C. Gun metal ✓ **Correct answer**
- D. German silver

A. Brass is used for many fittings, but not specifically for control valves.

B. The printed key, but wrong: bronze is a general copper alloy, while gun metal is the specific alloy used for control valves.

l (a bronze with zinc) is the copper alloy used for control valves.

D. German silver is a nickel alloy, not used for control valves.

Note: Note: printed key B is WRONG; the answer is C.

Question 72 Everyday Science

Which of the following alloys is used for the manufacturing of things and suspension filaments in electrical instrument?

- A. Bronze
- B. Aluminium bronze
- C. German silver
- D. Phosphorus bronze ✓ **Correct answer**

A. Ordinary bronze is not used for suspension filaments.

B. Aluminium bronze is not used for suspension filaments.

C. German silver is not used for suspension filaments.

D. Phosphor bronze is used for springs and suspension filaments in electrical instruments.

Question 73 Everyday Science

A new born baby was bones?

- A. 306
- B. 206
- C. 300 ✓ **Correct answer**
- D. 200

A. Wrong: a newborn does not have 306 bones.

B. Wrong: 206 is the number of bones in an adult.

n baby has about 300 bones, which fuse to 206 in adulthood.

D. The printed key, but wrong: 200 is not the number of bones in a newborn.

Note: Note: printed key D is WRONG; the answer is C.

Question 74 Everyday Science

Each leg consists of ___& bones.

- A. 26
- B. 30 ✓ **Correct answer**
- C. 27
- D. 32

A. Wrong: 26 is the number of bones in a foot, not a whole leg.

B. Each leg (hip to toes) consists of 30 bones.

C. Wrong: 27 is not the number of bones in a leg.

D. Wrong: 32 is not the number of bones in a leg.

Question 75 Everyday Science

For the manufacturing of cement, which of the following is used in the largest quantity?

- A. Alumina
- B. Calcium oxide ✓ **Correct answer**
- C. Gypsum
- D. Silica

A. Alumina is used in cement, but in a smaller quantity than lime.

B. Calcium oxide (lime, from limestone) is used in the largest quantity in cement manufacture.

s added in a small quantity to control setting time.

D. Silica is used in cement, but in a smaller quantity than lime.

Question 76 Everyday Science

At which of the following temperatures is the reading on both the Fahrenheit and the Centigrade scales the same?

- A. 0 degree
- B. -30 degree
- C. -32 degree
- D. -40 degree ✓ **Correct answer**

A. 0°C is 32°F, not the same.

B. −30°C is −22°F, not the same.

C. −32°C is about −25.6°F, not the same.

D. −40°C equals −40°F, the only temperature where the two scales agree.

Question 77 Everyday Science

Which of the following elements has 92 as the atomic number?

- A. Lead
- B. Platinum
- C. Thorium
- D. Uranium ✓ **Correct answer**

A. Lead has atomic number 82, not 92.

B. Platinum has atomic number 78, not 92.

C. Thorium has atomic number 90, not 92.

has atomic number 92.

Question 78 Everyday Science

Carbon Dioxide is

- A. An acidic oxide ✓ **Correct answer**
- B. A basic oxide
- C. A neutral oxide
- D. An atmospheric oxide

A. Carbon dioxide forms carbonic acid in water, so it is an acidic oxide.

B. Basic oxides are metal oxides that form alkalis; CO2 is not one.

C. Neutral oxides (like CO and N2O) do not form acids or bases; CO2 does form an acid.

D. This is not a chemical classification of oxides.

Question 79 Everyday Science

From which of the following sources can you get the purest form of water?

- A. Mineral water
- B. Rain water ✓ **Correct answer**
- C. River water
- D. Wall water

A. Mineral water contains dissolved minerals, so it is not the purest.

B. Rain water (collected cleanly) is the purest natural form of water, having been distilled by evaporation.

C. River water carries dissolved salts and impurities.

D. "Wall water" (filed for well water) contains dissolved minerals and impurities.

80 Everyday Science

Iodine is administered to patients suffering from

- A. Goiter ✓ **Correct answer**
- B. Nigh blindness
- C. Rickets
- D. Rheumatism

A. Iodine deficiency causes goitre, and iodine is given to treat it.

B. Night blindness is treated with vitamin A, not iodine.

C. Rickets is treated with vitamin D and calcium, not iodine.

D. Rheumatism is not treated with iodine.

Question 81 Pakistan Studies

The real number of Sher Shah Suri was:

- A. Farid ✓ **Correct answer**
- B. Aurangzeb
- C. Abeer
- D. Kaleem

A. Sher Shah Suri's real name was Farid Khan (filed "real number" for "real name").

B. Aurangzeb was a Mughal emperor, not Sher Shah Suri.

C. Abeer was not Sher Shah Suri's name.

D. Kaleem was not Sher Shah Suri's name.

Question 82 Pakistan Studies

The real number of Mujadad Alif Sani was:

ikh Ahmad Sarhandi ✓ **Correct answer**

- B. Ahmad Shah Aziz
- C. Sheikh Mubarat Alt Sarhandi
- D. Sheikh Aziz Ahmad

A. Mujaddid Alf Sani was Sheikh Ahmad Sirhindi (filed "Sarhandi").

B. The printed key, but wrong: Ahmad Shah Aziz is not Mujaddid Alf Sani.

C. This is a garbled name, not Mujaddid Alf Sani.

D. This is not Mujaddid Alf Sani.

Note: Note: printed key B is WRONG; the answer is A.

Question 83 Pakistan Studies

In which battle Haider Ali was defeated and forced to flee from battle-field:

- A. Panipat
- B. Jadi Hanvali ✓ **Correct answer**
- C. Mysore
- D. Carnatica

A. Haider Ali was not defeated at Panipat.

B. The paper names this battle as the one where Haider Ali was defeated and forced to flee.

C. Mysore was Haider Ali's own kingdom, not the battle in question.

D. The Carnatic wars are not the battle in question.

Note: Note: the filed battle name "Jadi Hanvali" is garbled (no battle of that name is known); the answer follows the printed key and is marked SINGLE-SOURCE.

84 Pakistan Studies

On saving country from Marhattas and on forcing them to retreat Haider Ali received the title of:

- A. Amir-ul-Mulk
- B. Fath Bahadur ✓ **Correct answer**
- C. Shams- ud-Dola
- D. Shams Bahadur

A. This was not the title in question.

B. The paper names Fath Bahadur as the title Haider Ali received.

C. This was not the title in question.

D. This was not the title in question.

Note: Note: the title rests on the paper's keyed answer alone; marked SINGLE-SOURCE.

Question 85 Pakistan Studies

The Subsidiary system was a recognition that British were overloads and maintained a British army for their protection. The local ruler would pay to British for their protection of a ruler ran short of money he would.

- A. Sell a portion of his territory to British ✓ **Correct answer**
- B. Go for a walk
- C. Abdicate from throne
- D. None

A. Under the Subsidiary Alliance, a ruler short of money had to cede (sell) part of his territory to the British.

B. This is not an answer to the question.

C. Abdication was not the system's provision.

ct, so "None" is wrong.

Question 86 Pakistan Studies

The rebelled army marched towards Delhi and declared:

- A. Bahadur Shah Zafar as their emperor ✓ **Correct answer**
- B. Mirza Mughal their leader
- C. Bakht Khan as a emperor
- D. None

A. In 1857 the rebel army marched to Delhi and proclaimed Bahadur Shah Zafar as emperor.

B. The printed key, but wrong: Mirza Mughal was a prince, not the declared emperor.

C. Bakht Khan was a rebel commander, not the declared emperor.

D. A is correct, so "None" is wrong.

Note: Note: printed key B is WRONG; the answer is A.

Question 87 Pakistan Studies

The first bullet of war of Independence was fired at:

- A. Delhi
- B. Barikpur ✓ **Correct answer**
- C. Agra
- D. Kanpur

A. The first shot of 1857 was not fired at Delhi.

B. The first bullet of the War of Independence was fired at Barrackpore (filed "Barikpur"), by Mangal Pandey on 29 March 1857.

C. The first shot of 1857 was not fired at Agra.

hot of 1857 was not fired at Kanpur.

Question 88 Pakistan Studies

Seemingly the Subsidiary system of British was intended to help local ruler but actually its purpose was to:

- A. establish British power in Sub-continent ✓ **Correct answer**
- B. give boost to trade in Sub continent
- C. gain agricultural A.D. vantages
- D. build warehouses in Sub continent

A. The Subsidiary Alliance's real purpose was to establish British power and control over the Indian states.

B. Trade was not the system's purpose.

C. Agricultural advantage was not the system's purpose.

D. Building warehouses was not the system's purpose.

Question 89 Pakistan Studies

Local rulers were forced to accept:

- A. Subsidiary system ✓ **Correct answer**
- B. Dual System
- C. Permanent settlement
- D. None

A. Local rulers were forced to accept the Subsidiary Alliance system.

B. The Dual System was an earlier revenue arrangement, not what rulers were forced to accept here.

C. The Permanent Settlement was a revenue system, not what rulers were forced to

D. A is correct, so "None" is wrong.

Question 90 Pakistan Studies

Tipu Sultan refused to accept Subsidiary system of British. The British waged war against him and occupied:

- A. Mysore ✓ **Correct answer**
- B. Orissa
- C. Deccan
- D. Surat

A. After the Fourth Anglo-Mysore War (1799), the British occupied Mysore.

B. The British did not occupy Orissa in the war against Tipu.

C. The British did not occupy the Deccan in the war against Tipu.

D. The British did not occupy Surat in the war against Tipu.

Question 91 Islamiat

The Nisab of Zakat on gold is:

- A. 18 Tolas
- B. 24 Tolas
- C. 7.5% Tolas ✓ **Correct answer**
- D. 35 Tolas

A. Wrong: the nisab of zakat on gold is not 18 tolas.

B. Wrong: the nisab of zakat on gold is not 24 tolas.

C. The nisab of zakat on gold is 7.5 tolas (87.48 grams); the filed "%" is a stray symbol in the option text.

e nisab of zakat on gold is not 35 tolas.

Note: Note: the filed option text "7.5% Tolas" carries a stray "%" symbol; the value is 7.5 tolas.

Question 92 Islamiat

A Verse of the Holy Quran indicates the name of:

- A. Hazrat Usman
- B. Hazrat Muaaz
- C. Hazrat Saad
- D. Hazrat Zaid ✓ **Correct answer**

A. Usman is not named in the Quran.

B. Muadh is not named in the Quran.

C. Saad is not named in the Quran.

D. Zaid ibn Harithah is the only companion named in the Quran (33:37).

Question 93 Islamiat

A Muslim female is coffined in:

- A. Eight Sheets
- B. Five Sheets ✓ **Correct answer**
- C. One Sheets
- D. Ten Sheets

A. Wrong: a Muslim female's shroud is not eight sheets.

B. A Muslim female is shrouded in five sheets (a male in three).

C. Wrong: a Muslim female's shroud is not one sheet.

Muslim female's shroud is not ten sheets.

Question 94 Islamiat

The original name of Imam Bukhari is:

- A. Saeed bin Hatem Ali
- B. Zaid
- C. Ismail
- D. Muhammad bin Ismail ✓ **Correct answer**

A. This is not Imam Bukhari's name.

B. Zaid is not Imam Bukhari's name.

C. Ismail was his father's name, not his own.

D. Imam Bukhari's full name was Muhammad ibn Ismail al-Bukhari.

Question 95 Islamiat

Makkah was conquered in:

- A. 5A.H
- B. 10A.H
- C. 2 A.H
- D. 6 A.H

No answer is given for this question, and none is taught. No correct option — DEFECTIVE-excluded (decided by assistant under owner's 8 Nov delegation; printed key D "6 A.H" is WRONG)

A. Wrong: Makkah was not conquered in 5 AH.

B. Wrong: Makkah was not conquered in 10 AH.

C. Wrong: Makkah was not conquered in 2 AH.

ed key, but wrong. Makkah was conquered in 8 AH. EVIDENCE: the conquest of Makkah took place in Ramadan 8 AH (630 AD), and 8 AH is not among the options, so no letter can be taught as the answer.

Question 96 Islamiat

Qurbani (Holy Slaughtering) is made during Hajj at:

- A. Arafat
- B. Mina ✓ **Correct answer**
- C. Muzdalifa
- D. Safe

A. Qurbani is not performed at Arafat.

B. Qurbani (sacrifice) is performed at Mina during Hajj.

C. Qurbani is not performed at Muzdalifah.

D. "Safe" (filed for Safa) is not where Qurbani is performed.

Question 97 Islamiat

Jami-i-Quran is taken for:

- A. Hazrat Ali (R.A)
- B. Hazrat Saad (R.A)
- C. Hazrat Usman (R.A) ✓ **Correct answer**
- D. Hazrat Masood (R.A)

A. Ali is not called Jami-i-Quran.

B. Saad is not called Jami-i-Quran.

C. Usman (RA) is called Jami-ul-Quran, the compiler of the Quran.

D. Masood is not called Jami-i-Quran.

98 Islamiat

Pious-Caliphate lasted for about:

- A. Eighteen Years
- B. Twenty Years
- C. Thirty Years ✓ **Correct answer**
- D. Five Years

A. Wrong: the Pious Caliphate did not last 18 years.

B. Wrong: the Pious Caliphate did not last 20 years.

C. The Pious (Rashidun) Caliphate lasted about thirty years (632–661 AD).

D. Wrong: the Pious Caliphate did not last 5 years.

Question 99 Islamiat

Gathering on Arafat during Hajj is made on:

- A. 9th Zil Hajjah ✓ **Correct answer**
- B. 3rd Ramzan
- C. 2nd Safar
- D. 18 Shawal

A. The gathering (Wuquf) at Arafat during Hajj is on the 9th of Zulhijjah.

B. Not the day of the Arafat gathering.

C. Not the day of the Arafat gathering.

D. Not the day of the Arafat gathering.

Question 100 Islamiat

How many stages the Quran contains?

- B. 7 ✓ **Correct answer**
- C. 9
- D. 12

A. Wrong: the Quran is not divided into 8 stages.

B. The Quran is divided into 7 stages (Manazil).

C. Wrong: the Quran is not divided into 9 stages.

D. Wrong: the Quran is not divided into 12 stages.

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