FPSC Research Officer in Senate | BS-17 | Senate — GUESS PAPER 2027 (Set 2 of 2) · Predicted Questions

Body: Federal Public Service Commission (FPSC) · **Post:** Research Officer in Senate | BS-17 | Senate · **Set:** 2 of 2 · **Questions:** 100 predicted — 0 repeated questions, 50 verified facts predicted to recur, 50 syllabus anchors · **Price:** Free

GUESS PAPER — predicted questions for the upcoming exam, NOT a past paper. Every question below is a prediction: it is here because the same question, the same fact, or the same topic appeared in verified FPSC Research Officer in Senate | BS-17 | Senate past papers. **No pass guarantee.** A guess paper raises the odds; it does not promise a result. Answers are the best-supported answers, not exam keys.

[C]-HEAVY PAPER — thin verified pool. 50 of the 100 questions below are syllabus anchors on this post's recurring topics, because the verified archive for this post holds only 99 items. Those questions are flagged [C] on every one of them: they are predictions about the syllabus, not verified facts. Study the topic, not just the answer.

> **How to use this paper:** study the basis under each question, not just the answer — the real paper will ask the same topics in different words. Revise the underlying topic, not only the four options. Do not quote any item as "asked in the 2027 exam" — nothing here has been asked yet.

Question 1 English

More than 90 per cent of coal is consumed by which sector?

- A. The transport sector
- B. The agriculture sector
- C. The electricity sector ✓ **Predicted answer**

textile sector

Why this answer? Over 90 per cent of coal is consumed by the electricity sector.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q1 (verified item - coal consumed by the electricity sector).

Question 2 English

A burger chain revealed its year-end store count in a newspaper article. Which verb best describes what it did?

- A. Disclosed ✓ **Predicted answer**
- B. Confessed
- C. Retaliated
- D. Engaged

Why this answer? The burger giant disclosed (revealed) its year-end store count.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q3 (verified item - burger giant disclosed its store count).

Question 3 English

A young man starting work as a mining engineer is said to do what?

- A. Activate his life
- B. Arrive at his destiny
- C. Train himself
- D. Begin his career ✓ **Predicted answer**

Why this answer? At a very young age, he began his career as a mining engineer.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q5 (verified item - began his career as a mining engineer).

4 English

What does the idiom at a low ebb mean?

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

Why this answer? At a low ebb means on the decline, at a low point.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q9 (verified item - at a low ebb means on the decline).

Question 5 English

Which adjective describes behaviour that is proper and dignified, and greatly admired?

- A. Decadent
- B. Decorative
- C. Decorous ✓ **Predicted answer**
- D. Decrepit

Why this answer? Decorous means proper and dignified, behaviour to be admired.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q11 (verified item - decorous behaviour admired).

Question 6 English

American speech, a mixture of American, Oxford English and colloquial English, is best described as what kind of speech?

- A. Motley
- B. Nasal
- C. Mangled

ɔrid ✓ **Predicted answer**

Why this answer? American speech is a hybrid, a combination of American, Oxford English and colloquial English.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q14 (verified item - American speech is a hybrid combination).

Question 7 English

Which word in the sentence The drug will have a pernicious effect on your health means harmful or ruinous?

- A. Prolonged
- B. Pernicious ✓ **Predicted answer**
- C. Beneficial
- D. Pornographic

Why this answer? Pernicious means harmful or ruinous.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q18 (verified item - pernicious means ruinous).

Question 8 English

Someone who is led astray by bad company has been what?

- A. Got into trouble
- B. Killed
- C. Lost the job
- D. Misguided ✓ **Predicted answer**

Why this answer? To be led astray means to be misguided, led into wrong ways.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q20 (verified item - led astray means misguided).

9 English

Which two words describe what happened to the big-bang model: it was improved in detail and it withstood challenges?

- A. Alteration and confirmation
- B. Refinement and resistance ✓ **Predicted answer**
- C. Transformation and ignorance
- D. Evaluation and acknowledgement

Why this answer? The big-bang model has undergone refinement and resisted all serious challenges.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q8 (verified item - big-bang model refined and resisted challenges).

Question 10 English

Which sentence is grammatically correct?

- A. Would you mind remarking to the principal how the trouble started?
- B. Would you mind explaining to the principal how the trouble started? ✓ **Predicted answer**
- C. Would you mind telling to the principal how the trouble started?
- D. Would you mind talking to the principal how the trouble started?

Why this answer? Would you mind explaining to the principal how the trouble started is the correct form.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q16 (verified item - mind explaining to the principal).

Question 11 English

Which word is the antonym of brave?

- B. Fearless
- C. Cowardly ✓ **Predicted answer**
- D. Heroic

Why this answer? Cowardly is the opposite of brave, while bold, fearless and heroic are near its meaning.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: synonyms and antonyms recurs in this post's sittings.

Question 12 English

Which word means the same as happy?

- A. Sad
- B. Joyful ✓ **Predicted answer**
- C. Angry
- D. Tired

Why this answer? Joyful is a synonym of happy.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: synonyms and antonyms recurs in this post's sittings.

Question 13 English

Choose the correct preposition: She is afraid ___ dogs.

- A. of ✓ **Predicted answer**
- B. from
- C. with
- D. by

Why this answer? The correct form is afraid of something.

ed [C] — Syllabus anchor: syllabus anchor - English: prepositions recurs in this post's sittings.

Question 14 English

What does the idiom to bite the dust mean?

- A. To eat dirt
- B. To fall asleep
- C. To work hard
- D. To be defeated ✓ **Predicted answer**

Why this answer? To bite the dust means to be defeated.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: idioms recurs in this post's sittings.

Question 15 English

Which is the correctly spelt word?

- A. Separate ✓ **Predicted answer**
- B. Seperate
- C. Separete
- D. Seperete

Why this answer? Separate is the correct spelling.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: spellings recurs in this post's sittings.

Question 16 English

What is the plural of child?

- A. Childs

des

- C. Children ✓ **Predicted answer**
- D. Childrens

Why this answer? The plural of child is children.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: plurals recurs in this post's sittings.

Question 17 English

Choose the correct verb: Neither of the answers ___ correct.

- A. are
- B. were
- C. have been
- D. is ✓ **Predicted answer**

Why this answer? Neither takes a singular verb, so neither of the answers is correct.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: subject-verb agreement recurs in this post's sittings.

Question 18 English

Which word is the synonym of ancient?

- A. New
- B. Old ✓ **Predicted answer**
- C. Modern
- D. Recent

Why this answer? Old is a synonym of ancient.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: synonyms and antonyms recurs in this post's sittings.

19 English

Complete the idiom: A blessing in ___.

- A. Hiding
- B. Darkness
- C. Disguise ✓ **Predicted answer**
- D. Trouble

Why this answer? The idiom is a blessing in disguise.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: idioms recurs in this post's sittings.

Question 20 English

Choose the right word: He is good ___ mathematics.

- A. in
- B. on
- C. at ✓ **Predicted answer**
- D. for

Why this answer? The correct form is good at mathematics.

Why predicted [C] — Syllabus anchor: syllabus anchor - English: prepositions recurs in this post's sittings.

Question 21 Pakistan Studies

Asghar Khan is remembered in Pakistans history as what?

- A. The first Army Chief of Pakistan
- B. The first Air Marshal of Pakistan ✓ **Predicted answer**
- C. The first Naval Chief of Pakistan
- D. The first Prime Minister of Pakistan

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

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q21 (verified item - first Air Marshal - Asghar Khan).

Question 22 Pakistan Studies

Which dam is situated in Mirpur, Azad Jammu and Kashmir?

- A. Tarbela Dam
- B. Mangla Dam ✓ **Predicted answer**
- C. Warsak Dam
- D. Diamer-Bhasha Dam

Why this answer? Mangla Dam is in Mirpur, Azad Jammu and Kashmir.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q24 (verified item - Mangla Dam in Azad Kashmir).

Question 23 Pakistan Studies

The Government of India Act 1935 gave provincial status to which region?

- A. Punjab
- B. Sindh
- C. Balochistan
- D. North-West Frontier Province ✓ **Predicted answer**

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

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q27 (verified item - NWFP provincial status 1935).

24 Pakistan Studies

Liaquat Ali Khan presented which historic document in March 1949?

- A. The Objectives Resolution ✓ **Predicted answer**
- B. The Lahore Resolution
- C. The Lucknow Pact
- D. The Simla Deputation

Why this answer? Liaquat Ali Khan presented the Objectives Resolution in March 1949.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q29 (verified item - Objectives Resolution presented by Liaquat Ali Khan).

Question 25 Pakistan Studies

In which year did Pakistan become a member of the UNO?

- A. 1947 ✓ **Predicted answer**
- B. 1948
- C. 1949
- D. 1950

Why this answer? Pakistan became a member of the United Nations on 30 September 1947.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q30 (verified item - Pakistan joined UNO 30 September 1947).

Question 26 Pakistan Studies

Sheikh Ahmad Sirhindi is known by which title?

- A. Fath Bahadur
- B. Amir-ul-Mulk
- C. Mujaddid Alf Sani ✓ **Predicted answer**

Why this answer? Mujaddid Alf Sani was Sheikh Ahmad Sirhindi (filed Sarhandi).

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q82 (verified item - Mujaddid Alf Sani - Sheikh Ahmad Sirhindi).

Question 27 Pakistan Studies

Mangal Pandey fired the first shot of the War of Independence on 29 March 1857 at which place?

- A. Delhi
- B. Agra
- C. Barrackpore ✓ **Predicted answer**
- D. Kanpur

Why this answer? The first shot of 1857 was fired at Barrackpore (filed Barikpur), by Mangal Pandey on 29 March 1857.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q87 (verified item - first bullet fired at Barrackpore).

Question 28 Pakistan Studies

Which ruler refused the Subsidiary system, leading the British to wage war and occupy Mysore?

- A. Haider Ali
- B. Sher Shah Suri
- C. Bahadur Shah Zafar
- D. Tipu Sultan ✓ **Predicted answer**

Why this answer? After the Fourth Anglo-Mysore War (1799), the British occupied Mysore.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010

item - British occupied Mysore after war with Tipu Sultan).

Question 29 Pakistan Studies

Bahadur Shah Zafar was proclaimed emperor by whom in 1857?

- A. The British East India Company
- B. The Marhattas
- C. The rebel army that marched to Delhi ✓ **Predicted answer**
- D. The Sikh army

Why this answer? In 1857 the rebel army marched to Delhi and proclaimed Bahadur Shah Zafar as emperor.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q86 (verified item - 1857 rebels declared Bahadur Shah Zafar emperor).

Question 30 Pakistan Studies

In which year was the Lahore Resolution passed?

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

Why this answer? The Lahore Resolution was passed on 23 March 1940.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: the Lahore Resolution recurs in this post's sittings.

Question 31 Pakistan Studies

Who was the first Prime Minister of Pakistan?

- A. Quaid-e-Azam

- C. Ayub Khan
- D. Liaquat Ali Khan ✓ **Predicted answer**

Why this answer? Liaquat Ali Khan was the first Prime Minister of Pakistan.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: first office holders recurs in this post's sittings.

Question 32 Pakistan Studies

In which year did Pakistan adopt its first constitution?

- A. 1947
- B. 1956 ✓ **Predicted answer**
- C. 1958
- D. 1962

Why this answer? Pakistan adopted its first constitution in 1956.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: constitutions recurs in this post's sittings.

Question 33 Pakistan Studies

The Simla Deputation of 1906 was led by whom?

- A. Quaid-e-Azam
- B. Sir Aga Khan ✓ **Predicted answer**
- C. Liaquat Ali Khan
- D. Allama Iqbal

Why this answer? The Simla Deputation of 1906 was led by Sir Aga Khan.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: the Simla Deputation recurs in this post's sittings.

34 Pakistan Studies

In which year was the Lucknow Pact signed?

- A. 1906
- B. 1916 ✓ **Predicted answer**
- C. 1920
- D. 1930

Why this answer? The Lucknow Pact between the Congress and the Muslim League was signed in 1916.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: the Lucknow Pact recurs in this post's sittings.

Question 35 Pakistan Studies

Quaid-e-Azam Muhammad Ali Jinnah was born on which date?

- A. 25 December 1877
- B. 14 August 1876
- C. 25 December 1876 ✓ **Predicted answer**
- D. 23 March 1876

Why this answer? Muhammad Ali Jinnah was born on 25 December 1876 in Karachi.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: Quaid-e-Azam recurs in this post's sittings.

Question 36 Pakistan Studies

Who was the first President of Pakistan?

- A. Iskander Mirza ✓ **Predicted answer**
- B. Ayub Khan
- C. Quaid-e-Azam

Why this answer? Iskander Mirza became the first President of Pakistan in 1956.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: first office holders recurs in this post's sittings.

Question 37 Pakistan Studies

The Objectives Resolution was passed in which year?

- A. 1947
- B. 1950
- C. 1956
- D. 1949 ✓ **Predicted answer**

Why this answer? The Objectives Resolution was passed in March 1949.

Why predicted [C] — Syllabus anchor: syllabus anchor - Pakistan Studies: the Objectives Resolution recurs in this post's sittings.

Question 38 General Knowledge

The Hague, in the Netherlands, is the seat of which international body?

- A. The United Nations General Assembly
- B. The World Bank
- C. The International Court of Justice ✓ **Predicted answer**
- D. The European Parliament

Why this answer? The International Court of Justice sits at The Hague, Netherlands.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q23 (verified item - ICJ at The Hague).

39 General Knowledge

Finland is known by which nickname?

- A. Land of a Thousand Lakes ✓ **Predicted answer**
- B. Land of the Rising Sun
- C. Land of the Midnight Sun
- D. Land of Smiles

Why this answer? Finland is called the Land of a Thousand Lakes.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q26 (verified item - Finland - land of Thousand Lakes).

Question 40 General Knowledge

The science and practice of teaching is known as what?

- A. Ornithology
- B. Astronomy
- C. Pharmacy
- D. Pedagogy ✓ **Predicted answer**

Why this answer? Pedagogy is the science (method and practice) of teaching.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q31 (verified item - pedagogy is science of teaching).

Question 41 General Knowledge

The Alps are young, but which range is younger - the youngest in the world?

- A. Himalaya ✓ **Predicted answer**
- B. Satpura
- C. Alps
- D. None

swer? The Himalaya is the youngest mountain range in the world.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q33 (verified item - youngest mountain range - Himalaya).

Question 42 General Knowledge

Vincent van Gogh is famous for painting which series of flowers?

- A. Water Lilies
- B. Roses
- C. Sunflowers ✓ **Predicted answer**
- D. Tulips

Why this answer? Vincent van Gogh painted the Sunflowers series.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q35 (verified item - Sunflowers painted by Van Gogh).

Question 43 General Knowledge

Which is the worlds deepest lake, situated in Siberia, Russia?

- A. Lake Baikal ✓ **Predicted answer**
- B. Lake Superior
- C. Lake Victoria
- D. Caspian Sea

Why this answer? Lake Baikal is in Siberia, Russia.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q37 (verified item - Lake Baikal in Russia).

Question 44 General Knowledge

The Nikkei is the stock index of which city?

- B. Hong Kong
- C. Tokyo ✓ **Predicted answer**
- D. London

Why this answer? The Nikkei is the Tokyo stock market index.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q39 (verified item - Tokyo indices - Nikkei).

Question 45 General Knowledge

Which district, part of Assam at partition, voted by referendum to join East Bengal?

- A. Noakhali
- B. Comilla
- C. Sylhet ✓ **Predicted answer**
- D. Mymensingh

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

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q44 (verified item - Sylhet was part of Assam at partition).

Question 46 General Knowledge

King Idris I was the ruler of which country when Gaddafi deposed him in 1969?

- A. Egypt
- B. Libya ✓ **Predicted answer**
- C. Saudi Arabia
- D. Sudan

Why this answer? King Idris I of Libya was deposed by Gaddafi in 1969.

ed [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q47 (verified item - Libyan king deposed 1969 - King Idris).

Question 47 General Knowledge

Singapore is the headquarters of which Asia-Pacific body?

- A. APEC ✓ **Predicted answer**
- B. ASEAN
- C. SAARC
- D. EFTA

Why this answer? APEC (Asia-Pacific Economic Cooperation) is headquartered in Singapore.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q48 (verified item - APEC headquarters Singapore).

Question 48 General Knowledge

Which issue does the Kyoto Protocol address?

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

Why this answer? The Kyoto Protocol deals with greenhouse-gas emissions (pollution) and climate change.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q49 (verified item - Kyoto Protocol - pollution).

49 General Knowledge

What is the capital of France?

- A. London
- B. Berlin
- C. Madrid
- D. Paris ✓ **Predicted answer**

Why this answer? Paris is the capital of France.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: world capitals recurs in this post's sittings.

Question 50 General Knowledge

Which is the largest desert in the world?

- A. Sahara ✓ **Predicted answer**
- B. Gobi
- C. Kalahari
- D. Arabian

Why this answer? The Sahara is the largest hot desert in the world.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: deserts recurs in this post's sittings.

Question 51 General Knowledge

Which is the longest river in the world?

- A. Amazon
- B. Nile ✓ **Predicted answer**
- C. Yangtze
- D. Indus

swer? The Nile is the longest river in the world.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: rivers recurs in this post's sittings.

Question 52 General Knowledge

Where is the headquarters of the United Nations?

- A. Geneva
- B. New York ✓ **Predicted answer**
- C. Paris
- D. London

Why this answer? The United Nations is headquartered in New York.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: international organisations recurs in this post's sittings.

Question 53 General Knowledge

Which is the largest ocean in the world?

- A. Atlantic
- B. Indian
- C. Arctic
- D. Pacific ✓ **Predicted answer**

Why this answer? The Pacific is the largest ocean in the world.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: oceans recurs in this post's sittings.

Question 54 General Knowledge

What is the capital of Japan?

- B. Seoul
- C. Tokyo ✓ **Predicted answer**
- D. Bangkok

Why this answer? Tokyo is the capital of Japan.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: world capitals recurs in this post's sittings.

Question 55 General Knowledge

Which planet is known as the Red Planet?

- A. Venus
- B. Mars ✓ **Predicted answer**
- C. Jupiter
- D. Saturn

Why this answer? Mars is known as the Red Planet.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: planets recurs in this post's sittings.

Question 56 General Knowledge

Where is the headquarters of the World Health Organization?

- A. New York
- B. Paris
- C. Geneva ✓ **Predicted answer**
- D. Vienna

Why this answer? The World Health Organization is headquartered in Geneva.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge:

organisations recurs in this post's sittings.

Question 57 General Knowledge

Which country is the largest by area?

- A. Canada
- B. China
- C. USA
- D. Russia ✓ **Predicted answer**

Why this answer? Russia is the largest country in the world by area.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: countries recurs in this post's sittings.

Question 58 General Knowledge

What is the currency of the United Kingdom?

- A. Euro
- B. Pound sterling ✓ **Predicted answer**
- C. Dollar
- D. Franc

Why this answer? The currency of the United Kingdom is the pound sterling.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: currencies recurs in this post's sittings.

Question 59 General Knowledge

Which is the smallest continent in the world?

- A. Europe
- B. Africa

tralia ✓ **Predicted answer**

- D. Antarctica

Why this answer? Australia is the smallest continent in the world.

Why predicted [C] — Syllabus anchor: syllabus anchor - General Knowledge: continents recurs in this post's sittings.

Question 60 Mathematics

A fraction becomes 3/5 when 1 is added to its numerator and denominator, and 5/9 when 1 is taken from both. Which fraction is it?

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

Why this answer? 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.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q51 (verified item - fraction 11/19).

Question 61 Mathematics

9000 increased by 20 percent equals what?

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

Why this answer? 20 percent of 9,000 is 1,800, and 9,000 + 1,800 = 10,800.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010

item - 20 percent more than 9000 is 10800).

Question 62 Mathematics

How many pumps in total are needed to fill a tank in 5 days if 15 pumps fill it in 7 days?

- A. 6
- B. 14
- C. 28
- D. 21 ✓ **Predicted answer**

Why this answer? The job needs 15 x 7 = 105 pump-days; in 5 days it needs 105 / 5 = 21 pumps.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q55 (verified item - pumps needed in 5 days - 21).

Question 63 Mathematics

A rod 42.5 metres long is cut into 85 cm pieces. How many pieces are there?

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

Why this answer? 42.5 metres is 4,250 cm, and 4,250 / 85 = 50 pieces.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q60 (verified item - pieces from rod - 50).

Question 64 Mathematics

To be certain of getting one ball of each colour from a bag of 8 green, 7 white and 5 red balls, what is the smallest number you must draw?

- B. 16 ✓ **Predicted answer**
- C. 7
- D. 11

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

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q66 (verified item - minimum picks for one of each colour - 16).

Question 65 Mathematics

A shopkeeper gives 20 percent less than the customer pays for. What profit does he make on the quantity actually given?

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

Why this answer? 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 percent.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q69 (verified item - cheating shopkeeper profit 25 percent).

Question 66 Mathematics

In a 60-second traffic-light cycle, green lasts 25 seconds. What is the chance the light is green at a random moment?

- A. 5/12 ✓ **Predicted answer**
- B. 1/3
- C. 1/4

Why this answer? The light is green for 25 of the 60 seconds, so the probability is 25/60 = 5/12.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q70 (verified item - probability light is green - 5/12).

Question 67 Mathematics

Find the product of the digits of the two-digit number for which six times the digit sum is one less than the number and eight more than its reverse.

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

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

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q53 (verified item - two-digit number 43, digit product 12).

Question 68 Mathematics

Two trains run the same way at 65 km per hour and 29 km per hour. The faster one takes 16 seconds to pass the slower trains driver. How long is the faster train?

- A. 60 m
- B. 160 m ✓ **Predicted answer**
- C. 120 m
- D. 240 m

swer? The relative speed is 65 - 29 = 36 km per hour = 10 m per second, and in 16 seconds the faster train covers 10 x 16 = 160 m.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q58 (verified item - faster train length 160 m).

Question 69 Mathematics

A circular wire of radius 42 cm is reshaped into a square. What is each side of the square?

- A. 21 cm
- B. 33 cm
- C. 132 cm
- D. 66 cm ✓ **Predicted answer**

Why this answer? The wires length is the circles circumference, 2 x 22/7 x 42 = 264 cm; bent into a square, each side is 264 / 4 = 66 cm.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q64 (verified item - square side 66 cm).

Question 70 Mathematics

What is 10 percent of 500?

- A. 5
- B. 100
- C. 50 ✓ **Predicted answer**
- D. 150

Why this answer? 10 percent of 500 is 50.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: percentages recurs in this post's sittings.

71 Mathematics

What is the average of 10, 20 and 30?

- A. 15
- B. 20 ✓ **Predicted answer**
- C. 25
- D. 30

Why this answer? The average of 10, 20 and 30 is (10 + 20 + 30) / 3 = 20.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: averages recurs in this post's sittings.

Question 72 Mathematics

What is 15 percent of 200?

- A. 30 ✓ **Predicted answer**
- B. 20
- C. 25
- D. 40

Why this answer? 15 percent of 200 is 30.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: percentages recurs in this post's sittings.

Question 73 Mathematics

If 3 pens cost 90, what is the cost of 5 pens at the same rate?

- A. Rs. 120
- B. Rs. 135
- C. Rs. 180
- D. Rs. 150 ✓ **Predicted answer**

swer? One pen costs 90 / 3 = 30, so 5 pens cost 5 x 30 = 150.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: unitary method recurs in this post's sittings.

Question 74 Mathematics

What is the square of 12?

- A. 144 ✓ **Predicted answer**
- B. 24
- C. 124
- D. 142

Why this answer? 12 squared is 12 x 12 = 144.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: squares recurs in this post's sittings.

Question 75 Mathematics

A train travels 120 km in 2 hours. What is its speed?

- A. 40 km per hour
- B. 50 km per hour
- C. 80 km per hour
- D. 60 km per hour ✓ **Predicted answer**

Why this answer? Speed is distance over time: 120 / 2 = 60 km per hour.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: speed recurs in this post's sittings.

Question 76 Mathematics

What is 25 percent of 400?

- B. 100 ✓ **Predicted answer**
- C. 75
- D. 125

Why this answer? 25 percent of 400 is 100.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: percentages recurs in this post's sittings.

Question 77 Mathematics

The ratio of boys to girls in a class is 2:3. If there are 10 boys, how many girls are there?

- A. 15 ✓ **Predicted answer**
- B. 12
- C. 20
- D. 25

Why this answer? 10 boys at a ratio of 2 means each part is 5, so girls are 3 x 5 = 15.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: ratios recurs in this post's sittings.

Question 78 Mathematics

What is the next number in the series 2, 4, 8, 16?

- A. 20
- B. 32 ✓ **Predicted answer**
- C. 24
- D. 30

Why this answer? Each number doubles: 16 x 2 = 32.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: number series

s post's sittings.

Question 79 Mathematics

What is 7 multiplied by 8?

- A. 48
- B. 54
- C. 56 ✓ **Predicted answer**
- D. 64

Why this answer? 7 x 8 = 56.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: multiplication recurs in this post's sittings.

Question 80 Mathematics

A shopkeeper buys an item for 100 and sells it for 120. What is his profit percent?

- A. 20 percent ✓ **Predicted answer**
- B. 10 percent
- C. 15 percent
- D. 25 percent

Why this answer? Profit is 120 - 100 = 20 on a cost of 100, so 20 percent.

Why predicted [C] — Syllabus anchor: syllabus anchor - Mathematics: profit and loss recurs in this post's sittings.

Question 81 Everyday Science

Gun metal is the copper alloy used for making what?

- A. Suspension filaments
- B. Control valves ✓ **Predicted answer**

- D. Electrical wires

Why this answer? Gun metal (a bronze with zinc) is the copper alloy used for control valves.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q71 (verified item - gun metal for control valves).

Question 82 Everyday Science

An adult has 206 bones. A newborn has more, because many bones later fuse. About how many bones does a newborn have?

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

Why this answer? A newborn baby has about 300 bones, which fuse to 206 in adulthood.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q73 (verified item - newborn baby has 300 bones).

Question 83 Everyday Science

What is special about minus 40 degrees on the Fahrenheit and Centigrade scales?

- A. It is the freezing point of water
- B. It is the boiling point of water
- C. It is absolute zero
- D. It is the only temperature where the two scales agree ✓ **Predicted answer**

Why this answer? -40 degrees Celsius equals -40 degrees Fahrenheit, the only temperature where the two scales agree.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q76 (verified item - scales agree at -40 degrees).

Question 84 Everyday Science

Which of these elements has the highest atomic number: lead (82), platinum (78), thorium (90) or uranium (92)?

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

Why this answer? Uranium has atomic number 92, higher than thorium (90), lead (82) and platinum (78).

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q77 (verified item - atomic number 92 - uranium).

Question 85 Everyday Science

Goitre is caused by the lack of which element, given to patients to treat it?

- A. Vitamin A
- B. Vitamin D
- C. Iodine ✓ **Predicted answer**
- D. Iron

Why this answer? Iodine deficiency causes goitre, and iodine is given to treat it.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q80 (verified item - iodine given for goiter).

86 Everyday Science

What is the chemical formula of water?

- A. H2O ✓ **Predicted answer**
- B. CO2
- C. O2
- D. NaCl

Why this answer? Water is made of two hydrogen atoms and one oxygen atom: H2O.

Why predicted [C] — Syllabus anchor: syllabus anchor - Everyday Science: chemical formulas recurs in this post's sittings.

Question 87 Everyday Science

Which vitamin is found in citrus fruits and prevents scurvy?

- A. Vitamin C ✓ **Predicted answer**
- B. Vitamin A
- C. Vitamin D
- D. Vitamin B12

Why this answer? Vitamin C, found in citrus fruits, prevents scurvy.

Why predicted [C] — Syllabus anchor: syllabus anchor - Everyday Science: vitamins recurs in this post's sittings.

Question 88 Everyday Science

At what temperature does water boil at sea level?

- A. 100 degrees Celsius ✓ **Predicted answer**
- B. 90 degrees Celsius
- C. 80 degrees Celsius
- D. 120 degrees Celsius

swer? Water boils at 100 degrees Celsius at sea level.

Why predicted [C] — Syllabus anchor: syllabus anchor - Everyday Science: boiling point recurs in this post's sittings.

Question 89 Everyday Science

Which organ pumps blood around the human body?

- A. Liver
- B. Kidney
- C. Heart ✓ **Predicted answer**
- D. Lung

Why this answer? The heart pumps blood around the body.

Why predicted [C] — Syllabus anchor: syllabus anchor - Everyday Science: the human body recurs in this post's sittings.

Question 90 Everyday Science

Which gas do plants absorb from the air for photosynthesis?

- A. Carbon dioxide ✓ **Predicted answer**
- B. Oxygen
- C. Nitrogen
- D. Hydrogen

Why this answer? Plants absorb carbon dioxide for photosynthesis.

Why predicted [C] — Syllabus anchor: syllabus anchor - Everyday Science: photosynthesis recurs in this post's sittings.

Question 91 Islamiat

87.48 grams of gold is the nisab of Zakat. How many tolas is that?

tolas ✓ **Predicted answer**

- B. 18 tolas
- C. 24 tolas
- D. 35 tolas

Why this answer? The nisab of zakat on gold is 7.5 tolas (87.48 grams).

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q91 (verified item - nisab of zakat on gold 7.5 tolas).

Question 92 Islamiat

Which companion is the only one named by name in the Holy Quran?

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

Why this answer? Zaid ibn Harithah is the only companion named in the Quran (33:37).

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q92 (verified item - companion named in Quran - Hazrat Zaid).

Question 93 Islamiat

Muhammad ibn Ismail al-Bukhari is the full name of which scholar?

- A. Imam Muslim
- B. Imam Abu Hanifa
- C. Imam Malik
- D. Imam Bukhari ✓ **Predicted answer**

Why this answer? Imam Bukharis full name was Muhammad ibn Ismail al-Bukhari.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010

item - Imam Bukhari original name Muhammad bin Ismail).

Question 94 Islamiat

The caliph who compiled the Quran into one book is known by which title?

- A. Jami-ul-Quran ✓ **Predicted answer**
- B. Khatam-un-Nabiyyin
- C. Siddiq
- D. Farooq

Why this answer? Usman (RA) is called Jami-ul-Quran, the compiler of the Quran.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q97 (verified item - Jami-ul-Quran - Hazrat Usman).

Question 95 Islamiat

On which day of Hajj do pilgrims gather at Arafat for Wuquf?

- A. 8th Zulhijjah
- B. 10th Zulhijjah
- C. 3rd Ramzan
- D. 9th Zulhijjah ✓ **Predicted answer**

Why this answer? The gathering (Wuquf) at Arafat during Hajj is on the 9th of Zulhijjah.

Why predicted [B] — Verified fact, predicted to recur: fpsc-research-officer-senate-2010 Q99 (verified item - Arafat gathering on 9th Zil Hajjah).

Question 96 Islamiat

How many Surahs are there in the Holy Quran?

- A. 110
- B. 114 ✓ **Predicted answer**

- D. 120

Why this answer? There are 114 Surahs in the Holy Quran.

Why predicted [C] — Syllabus anchor: syllabus anchor - Islamiat: the Holy Quran recurs in this post's sittings.

Question 97 Islamiat

Who was the first prophet of Islam?

- A. Hazrat Noah (A.S)
- B. Hazrat Ibrahim (A.S)
- C. Hazrat Musa (A.S)
- D. Hazrat Adam (A.S) ✓ **Predicted answer**

Why this answer? Hazrat Adam (A.S) was the first prophet.

Why predicted [C] — Syllabus anchor: syllabus anchor - Islamiat: prophets recurs in this post's sittings.

Question 98 Islamiat

Which is the first month of the Islamic calendar?

- A. Ramadan
- B. Shawwal
- C. Zulhijjah
- D. Muharram ✓ **Predicted answer**

Why this answer? Muharram is the first month of the Islamic calendar.

Why predicted [C] — Syllabus anchor: syllabus anchor - Islamiat: Islamic months recurs in this post's sittings.

99 Islamiat

What was the first revealed word of the Holy Quran?

- A. Alhamd
- B. Bismillah
- C. Qul
- D. Iqra ✓ **Predicted answer**

Why this answer? The first revealed word was Iqra, meaning Read.

Why predicted [C] — Syllabus anchor: syllabus anchor - Islamiat: revelation recurs in this post's sittings.

Question 100 Islamiat

How many times a day do Muslims offer obligatory prayers?

- A. Four
- B. Five ✓ **Predicted answer**
- C. Three
- D. Six

Why this answer? Muslims offer five obligatory prayers a day.

Why predicted [C] — Syllabus anchor: syllabus anchor - Islamiat: prayers recurs in this post's sittings.

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