Certified Teacher (CT, BPS-15), Khyber Pakhtunkhwa — 2020 · Solved Past Paper

Body: National Testing Service (NTS) · **Post:** Certified Teacher (CT, BPS-15), Khyber Pakhtunkhwa · **Year:** 2020 · **Questions:** 78 in the original paper — **78 solved and verified**, none excluded · **Price:** Free

> **How to use this paper:** each question shows the stem, the four options, and the correct answer. Click “Why each option?” under a question to see all four options explained — one question teaches four topics. General Knowledge answers are as of the 2020 sitting.

Source note: TestPointPK solved past paper: NTS CT Solved Past Paper 11-10-2020 (78 questions, 8 paginated pages; page 9 serves no questions). Stems, four options and the site-marked key per question as captured from the page HTML (correct option carries class=correct), 14 Nov 2026. The source states no printed total; filed as the complete paper as presented (78/78). 1 site-key correction: Q20 c→A (assessment while teaching helps the teacher adjust instructions — formative assessment, Black and Wiliam; TeachThought). Q61 filed B (Timely:Time) per the TestPoint explanation and the Bettani Series CT paper; 'Respectfully:Respectful' is also a defensible adverb:adjective parallel and is disclosed in the file. Q38 filed A (Biocatalysis) per the TestPoint explanation — the stem describes a compost heap and biocatalysis is the intended option among those given. Dedup 14 Nov 2026: CLEAN — 0 exact + 0 first-8-words vs all 13 live NTS papers + 8 live STS teacher papers; full-corpus screen (879 live papers) found only 4 isolated single-question matches in 4 different papers (normal cross-sitting reuse per the 37aig precedent, NOT a duplicate). Dedup script: ~/workspace/imtiaz-shahid/nts-lane/dedup-ct-2020.py.

Question 1 Mathematics

30÷5=6, then the quotient is?

- B. 30
- C. 6 ✓ **Correct answer**
- D. None of these

A. Wrong: 5 is the divisor.

B. Wrong: 30 is the dividend.

C. Correct: in 30÷5=6 the quotient is 6.

D. Wrong: option C is correct, so 'None of these' fails.

Question 2 English

_____ are going to school.

- A. He
- B. She
- C. They ✓ **Correct answer**
- D. None of these

A. Wrong: 'He' is singular, but the verb 'are' needs a plural subject.

B. Wrong: 'She' is singular, but the verb 'are' needs a plural subject.

C. Correct: 'They' is plural and agrees with 'are'.

D. Wrong: option C is correct, so 'None of these' fails.

Question 3 Pakistan Studies

?The title “Quaid-e-Millat” refers to which Pakistani politician قائدِ ملت کس سیاستدان کا لقب ہے؟

- A. Liaquat Ali Khan ✓ **Correct answer**
- B. Muhammad Ali Jinnah

- D. Allama Iqbal

A. Correct: 'Quaid-e-Millat' (Leader of the Nation) is the title of Liaquat Ali Khan.

B. Wrong: Jinnah is 'Quaid-e-Azam'.

C. Wrong: Bhutto never carried this title.

D. Wrong: Iqbal is 'Allama' and 'Shair-e-Mashriq', not Quaid-e-Millat.

Question 4 Pakistan Studies

لیاقت علی خان کس سال مسلم لیگ میں شامل ہوئے؟ Liaquat Ali Khan Joined Muslim League in which year?

- A. 1923 ✓ **Correct answer**
- B. 1920
- C. 1916
- D. 1913

A. Correct: Liaquat Ali Khan joined the Muslim League in 1923 (Encyclopaedia.com; New World Encyclopedia).

B. Wrong: 1920 is not the year he joined.

C. Wrong: 1916 is not the year he joined.

D. Wrong: 1913 is not the year he joined.

Question 5 General Knowledge

دنیا کی دوسری بلند ترین چوٹی کہاں واقع ہے؟ The second highest peak K-2 in the world is located in?

- A. Sub-Himalayan Range
- B. Karakoram Range ✓ **Correct answer**

- D. None of these

A. Wrong: the Sub-Himalayan Range is the Siwalik foothills, not K-2's range.

B. Correct: K-2, the world's second highest peak, stands in the Karakoram Range.

C. Wrong: the Hindukush is a different range (its highest peak is Tirich Mir).

D. Wrong: option B is correct, so 'None of these' fails.

Question 6 Mathematics

5.12−5.02 is equal to _____?

- A. 0.1 ✓ **Correct answer**
- B. 0.01
- C. 0.14
- D. None of these

A. Correct: 5.12 − 5.02 = 0.10.

B. Wrong: 0.01 is ten times too small.

C. Wrong: 0.14 does not follow from the subtraction.

D. Wrong: option A is correct, so 'None of these' fails.

Question 7 Pakistan Studies

دو قومی نظریہ کی ?Who was the first person to use the term Two Nation Theory in 1867

اصطلاح استعمال کرنے والا پہلا شخص کون تھا؟

- A. Muhammad Ali Jinnah
- B. Allama Iqbal
- C. Sir Syed Ahmed Khan ✓ **Correct answer**

A. Wrong: Jinnah later championed the theory; he did not first use the term in 1867.

B. Wrong: Iqbal gave the idea political shape in 1930, long after 1867.

C. Correct: Sir Syed Ahmed Khan first used the term after the Urdu-Hindi controversy of 1867.

D. Wrong: option C is correct, so 'None of these' fails.

Question 8 Urdu

عقیدہ کے معنی کیا ہیں؟

Correct answer ✓ A. گرہ لگائی ہوئی چیز/باندھی ہوئی

B. مشکل کشائی

C. عقیدہ مندی

D. ان میں سے کوئی نہیں

A. Correct: عقیدہ comes from عقد (a knot or tie) — a firmly tied belief.

B. Wrong: مشکل کشائی means solving difficulties, not the meaning of عقیدہ.

C. Wrong: عقیدہ مندی is a derived phrase, not the literal meaning.

D. Wrong: option A is correct, so 'ان میں سے کوئی نہیں' fails.

Question 9 English

The Antonym of HARD is?

- A. Firm
- B. Ugly

- D. None of these

A. Wrong: 'Firm' is a synonym of 'hard', not its antonym.

B. Wrong: 'Ugly' is unrelated to 'hard'.

C. Correct: 'Soft' is the opposite of 'hard'.

D. Wrong: option C is correct, so 'None of these' fails.

Question 10 Mathematics

فائیو سیکنڈ کے بعد فری ?_____ The distance travelled by the free fall object after 5 seconds is

فال آبجیکٹ _____ کے ذریعہ سفر کیا گیا ہے؟

- A. 80 m
- B. 45 m
- C. 122.5 m ✓ **Correct answer**
- D. None of these

A. Wrong: 80 m is not the distance after 5 seconds of free fall.

B. Wrong: 45 m is not the distance after 5 seconds of free fall.

C. Correct: $s = ½ \times 9.8 \times 5^2 = 122.5$ m.

D. Wrong: option C is correct, so 'None of these' fails.

Question 11 General Knowledge

مندرجہ ذیل میں سے کون ?Which of the following receives rains more than all the other valleys

سی دوسری وادیوں سے زیادہ بارش وصول کرتا ہے؟

- A. Chitral valley
- B. Kashmir valley ✓ **Correct answer**

t valley

- D. None of these

A. Wrong: Chitral valley is comparatively dry and receives low rainfall.

B. Correct: Kashmir valley receives the highest rainfall of the three, from the monsoon and western disturbances in the western Himalayas (TestPoint explanation).

C. Wrong: Swat valley receives heavy rain but less than Kashmir valley.

D. Wrong: option B is correct, so 'None of these' fails.

Question 12 Pakistan Studies

سارک کے تصور کے پیچھے کون سا ملک تھا؟ ?Which country was behind the idea of SAARC

- A. India
- B. Bangladesh ✓ **Correct answer**
- C. Sri Lanka
- D. None of these

A. Wrong: India did not propose SAARC; it was initially sceptical of the idea.

B. Correct: the idea of SAARC was proposed by Bangladesh — President Ziaur Rahman, 1977–1980.

C. Wrong: Sri Lanka endorsed the proposal; it did not originate it.

D. Wrong: option B is correct, so 'None of these' fails.

Question 13 Islamiat

قرآن مجید کا ایک نام الفرقان ہے جس کے معنی کیا ہیں؟

Correct answer ✓ A. حق و باطل میں فرق کرنے والی کتاب

B. مقدس کتاب

C. بار بار پڑھی جانے والی کتاب•

D. ان میں سے کوئی نہیں•

A. Correct: الفرقان means the Criterion — the book that distinguishes truth from falsehood.

B. Wrong: 'مقدس کتاب' (holy book) is a general description, not the meaning of الفرقان.

C. Wrong: 'بار بار پڑھی جانے والی کتاب' describes the Quran as the oft-recited book, not الفرقان.

D. Wrong: option A is correct, so 'ان میں سے کوئی نہیں' fails.

Question 14 Mathematics

What is the measure of each interior angle of a regular hexagon?

- A. 120° ✓ **Correct answer**
- B. 108°
- C. 135°
- D. None of these

A. Correct: each interior angle of a regular hexagon is (6 − 2) × 180° ÷ 6 = 120°.

B. Wrong: 108° is the interior angle of a regular pentagon.

C. Wrong: 135° is the interior angle of a regular octagon.

D. Wrong: option A is correct, so 'None of these' fails.

Question 15 Urdu

امکان سے امکانات۔ یہ اسم کی کون سی قسم ہے؟

A. اسم نکرہ•

B. اسم معرفہ•

Correct answer ✓ C. اسم جمع

D. ان میں سے کوئی نہیں

A. Wrong: اسم نکرہ is a common/indefinite noun, not a plural form.

B. Wrong: اسم معرفہ is a proper noun, not a plural form.

C. Correct: امکان سے امکانات is the plural (اسم جمع) of the noun.

D. Wrong: option C is correct, so 'ان میں سے کوئی نہیں' fails.

Question 16 Urdu

امتحان دیا گیا۔ یہ جملا فعل کی کون سی قسم کا ہے؟

A. ماضی مطلق

B. فعل ماضی

Correct answer ✓ C. فعل مجہول

D. ان میں سے کوئی نہیں

A. Wrong: ماضی مطلق is the simple past in the active voice.

B. Wrong: فعل ماضی is past tense generally, not the passive construction.

C. Correct: 'امتحان دیا گیا' is passive voice (فعل مجہول) — 'the exam was given'.

D. Wrong: option C is correct, so 'ان میں سے کوئی نہیں' fails.

Question 17 Pedagogy

_____ Discovery has important role in learning, the example of discovery learning is?

سیکھنے میں دریافت کا اہم کردار ہے، دریافت سیکھنے کی مثال _____ ہے؟

erimentation ✓ **Correct answer**

- B. Team teaching
- C. Mainstreaming
- D. None of these

A. Correct: discovery learning (Bruner) is learning by doing — experimenting to discover facts for oneself.

B. Wrong: team teaching is two teachers sharing a class, not discovery learning.

C. Wrong: mainstreaming is including special learners in ordinary classes, not discovery learning.

D. Wrong: option A is correct, so 'None of these' fails.

Question 18 Pedagogy

پوچھ گچھ کی ?_____ The questioning technique is major focus in the method of teaching

تکنیک _____ کی تعلیم کے طریقہ کار میں بڑی توجہ ہے؟

- A. Discussion Method ✓ **Correct answer**
- B. Demonstration Method
- C. Project Method
- D. Lecture Method

A. Correct: questioning is the major focus of the discussion method — Socratic questioning drives discussion.

B. Wrong: the demonstration method focuses on showing, not on questioning.

C. Wrong: the project method focuses on a task or product, not on questioning.

D. Wrong: the lecture method is one-way talk by the teacher, not questioning.

19 Pedagogy

گلیزر کے تدریسی ترتیب ?_____ The second component of the Glaser’s instructional sequence is

کا دوسرا جزو _____ ہے؟

- A. Entering behavior ✓ **Correct answer**
- B. Instructional procedure
- C. Perform assessments
- D. None of these

A. Correct: Glaser's sequence is (1) instructional objectives, (2) entering behaviour, (3) instructional procedures, (4) performance assessment.

B. Wrong: instructional procedure is the third component, not the second.

C. Wrong: performance assessment is the fourth component, not the second.

D. Wrong: option A is correct, so 'None of these' fails.

Question 20 Pedagogy

تشخیص کی تعلیم کے دوران استاد کو ?_____ While teaching the assessment helps the teacher to

میں مدد ملتی ہے؟ _____

- A. Adjust instructions ✓ **Correct answer**
- B. Revise objectives
- C. Plan lessons
- D. None of these

A. Correct: assessment DURING teaching (formative assessment) is used to adjust instruction — Black and Wiliam 1998; TeachThought. This is the corrected key: the site marked C.

B. Wrong: objectives are revised before or after teaching, not the purpose of assessment during teaching.

sson planning precedes teaching; assessment during teaching informs adjustment, not planning. The site-marked key C is corrected to A — see the Verification Summary.

D. Wrong: option A is correct, so 'None of these' fails.

Question 21 Islamiat

نبوت کا سلسلہ کس نبی سے شروع ہوا؟

A. حضرت محمد صلی اللہ علیہ وآلہ وسلم

B. حضرت موسیٰ علیہ السلام

Correct answer ✓ C. حضرت آدم علیہ السلام

D. ان میں سے کوئی نہیں

A. Wrong: Muhammad (peace be upon him) is the LAST prophet, not the first.

B. Wrong: Musa (peace be upon him) came much later in the chain of prophethood.

C. Correct: the chain of prophethood began with Adam (peace be upon him).

D. Wrong: option C is correct, so 'ان میں سے کوئی نہیں' fails.

Question 22 Islamiat

قرآن مجید کی کون سی سورت ہے جو ایک تہائی قرآن کے برابر ہے؟

A. سورت البقرہ

Correct answer ✓ B. سورت الاخلاص

C. سورت آل عمران

D. ان میں سے کوئی نہیں

A. Wrong: Surah Al-Baqarah is the longest surah, not the one equal to a third of the

B. Correct: Surah Al-Ikhlas equals one-third of the Quran (hadith).

C. Wrong: Surah Aal-e-Imran is the third surah, not the one equal to a third of the Quran.

D. Wrong: option B is correct, so 'ان میں سے کوئی نہیں' fails.

Question 23 Islamiat

جنت کے دروازوں میں سے ایک کا نام _____ ہے، جس سے صرف روزے دار داخل ہوں گے۔

- A. باب الریان ✓ **Correct answer**
- B. باب التوبہ
- C. باب الصیام
- D. ان میں سے کوئی نہیں

A. Correct: Bab al-Rayyan is the gate of Paradise through which only fasting people enter (hadith).

B. Wrong: Bab al-Tawbah is not the gate named for fasting people.

C. Wrong: Bab al-Siyam is not the gate's name in the hadith.

D. Wrong: option A is correct, so 'ان میں سے کوئی نہیں' fails.

Question 24 Islamiat

الطیب کا معنی کیا ہے؟

- A. شفاف
- B. پاک ✓ **Correct answer**
- C. ناپاک

D. ان میں

.الطیب means transparent, not the meaning of شفاف :**A.** Wrong

.(pure) پاک means الطیب :**B.** Correct

.الطیب is the opposite of (impure) ناپاک :**C.** Wrong

.fails 'ان میں سے کوئی نہیں' **D.** Wrong: option B is correct, so

Question 25 Islamiat

نبی صَلَّی اللهُ علیہ وآلہ وسلّم کے کس نام یا وصف پر قرآن مجید کی کی ایک سورت کا نام ہے؟

A. الرسول

Correct answer ✓ B. محمد

C. احمد

D. ان میں سے کوئی نہیں

.الرسول **A.** Wrong: no surah is named

B. Correct: Surah Muhammad (chapter 47) is named after the Prophet's name Muhammad.

.احمد **C.** Wrong: no surah is named

.fails 'ان میں سے کوئی نہیں' **D.** Wrong: option B is correct, so

Question 26 Islamiat

توحید کے معنی کیا ہیں؟

Correct answer ✓ A. ایک ماننا

C. اتحاد کرنا•

D. ان میں سے کوئی نہیں•

A. Correct: توحید means believing in One God — ایک ماننا.

B. Wrong: انکار کرنا (denial) is the opposite of توحید.

C. Wrong: اتحاد کرنا (unification) is not the meaning of توحید.

D. Wrong: option A is correct, so 'ان میں سے کوئی نہیں' fails.

Question 27 Islamiat

توحید کی ضد کیا ہے؟

A. وحد•

B. اپنی ذات میں ایک ہونا•

Correct answer ✓ C. شرک•

D. تمام•

A. Wrong: وحد (oneness) is related to توحید, not its opposite.

B. Wrong: اپنی ذات میں ایک ہونا describes توحید itself, not its opposite.

C. Correct: شرک (associating partners with God) is the opposite of توحید.

D. Wrong: تمام (all) is unrelated to توحید.

Question 28 Islamiat

نبی کے معنی کیا ہیں؟

• A. پ

Correct answer ✓ • B. خبر دینے والا

• C. سنانے والا

• D. ان میں سے کوئی نہیں

A. Wrong: پیغام پہنچانے والا (one who delivers a message) describes a رسول more closely than a نبی.

B. Correct: نبی comes from نبأ (news) — (one who gives news (from God).

C. Wrong: سنانے والا (one who recites or tells) is not the definition of نبی.

D. Wrong: option B is correct, so 'ان میں سے کوئی نہیں' fails.

Question 29 Urdu

اردو کے کس شاعر نے نوجوانوں کو شاہین سے تشبیہ دی ہے؟

Correct answer ✓ • A. اقبال نے

• B. غالب نے

• C. میر نے

• D. ان میں سے کوئی نہیں

A. Correct: Iqbal likened the youth to the shaheen (falcon).

B. Wrong: Ghalib did not use the shaheen image for the youth.

C. Wrong: Mir did not use the shaheen image for the youth.

D. Wrong: option A is correct, so 'ان میں سے کوئی نہیں' fails.

30 Urdu

علاج بالدوا سے مراد کیا ہے؟

A. ڈاکٹر سے پرہیز

B. آپریشن سے پرہیز

Correct answer ✓ C. دوا سے علاج

D. ان میں سے کوئی نہیں

A. Wrong: ڈاکٹر سے پرہیز means avoiding the doctor, not treatment by medicine.

B. Wrong: آپریشن سے پرہیز means avoiding surgery, not treatment by medicine.

C. Correct: علاج بالدوا means treatment by medicine (دوا سے علاج).

D. Wrong: option C is correct, so 'ان میں سے کوئی نہیں' fails.

Question 31 Urdu

ضعف و ناتوانی سے مراد کیا ہے؟

A. تندرستی

B. طاقتوری

Correct answer ✓ C. کمزوری

D. ان میں سے کوئی نہیں

A. Wrong: تندرستی (health) is the opposite of ضعف و ناتوانی.

B. Wrong: طاقتوری (strength) is the opposite of ضعف و ناتوانی.

C. Correct: ضعف و ناتوانی means کمزوری (weakness).

D. Wrong: option C is correct, so از میرا سے کا

Question 32 Pakistan Studies

Ayub Khan removed/deposed which politician in 1958? ایوب خان نے 1958 میں کس سیاستدان کو ہٹایا؟

- A. Iskander Mirza ✓ **Correct answer**
- B. Liaquat Ali Khan
- C. Khawaja Nazimuddin
- D. Huseyn Shaheed Suhrawardy

A. Correct: in October 1958 Ayub Khan deposed President Iskander Mirza and took power.

B. Wrong: Liaquat Ali Khan died in 1951, seven years before 1958.

C. Wrong: Khawaja Nazimuddin was not deposed by Ayub Khan in 1958.

D. Wrong: Huseyn Shaheed Suhrawardy was dismissed as prime minister in 1957 by Mirza, not deposed by Ayub in 1958.

Question 33 General Knowledge

play an important part in a country's economy _____. ایک ملک کی معیشت میں ایک اہم حصہ ادا کرتا ہے؟ _____

- A. Exports ✓ **Correct answer**
- B. Imports
- C. Education
- D. None of these

A. Correct: exports earn foreign exchange and play a central part in a country's economy.

B. Wrong: imports cost foreign exchange; they do not play the same earning part.

lucation matters greatly, but the question asks about the trade side of the economy.

D. Wrong: option A is correct, so 'None of these' fails.

Question 34 General Knowledge

_____ Sub-Himalayas are also known as _____ ذیلی ہمالیہ کے نام سے بھی جانا جاتا ہے؟

- A. Siwalik ✓ **Correct answer**
- B. Margalla
- C. Pir Panjal
- D. None of these

A. Correct: the Sub-Himalayas are the Siwalik range (the foothills).

B. Wrong: the Margalla hills near Islamabad are not the Sub-Himalayas.

C. Wrong: Pir Panjal is a Himalayan range, not the Sub-Himalayan foothills.

D. Wrong: option A is correct, so 'None of these' fails.

Question 35 Science

Chinkara deer and peacock are found in mostly? چنکارا ہرن اور مور زیادہ تر کہاں پائے جاتے ہیں؟

- A. Deserts ✓ **Correct answer**
- B. Forest
- C. Plain areas
- D. None of these

A. Correct: chinkara (Indian gazelle) and peafowl both occur in the Thar and Cholistan deserts of Pakistan.

B. Wrong: forests are not the habitat the pair is associated with in this question.

ain areas are not the habitat the pair is associated with in this question.

D. Wrong: option A is correct, so 'None of these' fails.

Question 36 Science

ہلکے حسی خلیات جو ?_____ Light sensory cells which are linked to the optical nerve, from

آپٹیکل اعصاب سے منسلک ہوتے ہیں ، _____ سے؟

- A. Sclerotic
- B. Retina ✓ **Correct answer**
- C. Yellow spot
- D. None of these

A. Wrong: the sclerotic (sclera) is the tough white outer coat of the eye, not the light-sensitive layer.

B. Correct: the light sensory cells linked to the optic nerve form the retina.

C. Wrong: the yellow spot (macula) is only a small central area of the retina, not the whole light-sensitive layer.

D. Wrong: option B is correct, so 'None of these' fails.

Question 37 Science

انسانوں میں ، ?_____ In human beings, immunity against diseases is mainly enhanced by

بیماریوں سے استثنیٰ بنیادی طور پر _____ کے ذریعہ بڑھایا جاتا ہے؟

- A. White blood cells ✓ **Correct answer**
- B. Platelets
- C. Red blood cells
- D. None of these

A. Correct: white blood cells defend the body against disease and build immunity.

atelets clot blood, they do not build immunity.

C. Wrong: red blood cells carry oxygen; they do not build immunity.

D. Wrong: option A is correct, so 'None of these' fails.

Question 38 Science

Which process basically involves heaping biomass that is derived from various organic materials? بنیادی طور پر کون سا عمل میں بایڈماس کو ڈھیر کرنا شامل ہے جو مختلف نامیاتی مواد سے اخذ کیا گیا ہے؟

- A. Biocatalysis ✓ **Correct answer**
- B. Electrophoresis
- C. Photosynthesis
- D. None of these

A. Correct: biocatalysis uses natural catalysts (enzymes) to speed the decomposition of organic materials and convert biomass into useful energy such as biofuels (TestPoint explanation).

B. Wrong: electrophoresis separates molecules; it does not heap or break down biomass.

C. Wrong: photosynthesis is how plants make food from sunlight; it does not heap biomass.

D. Wrong: option A is correct, so 'None of these' fails.

Note: Note: the stem describes a compost heap; among the options given, biocatalysis is the intended answer — enzyme-driven breakdown of biomass (TestPoint explanation).

Question 39 Science

_____? سنکچن Repeated sessions of contraction and relaxation are mainly associated with

- A. Supporting tissues
- B. Muscle tissues ✓ **Correct answer**
- C. Epithelial tissues
- D. None of these

A. Wrong: supporting (connective) tissues support and bind; they do not contract and relax.

B. Correct: repeated contraction and relaxation is the work of muscle tissues.

C. Wrong: epithelial tissues line and cover surfaces; they do not contract and relax.

D. Wrong: option B is correct, so 'None of these' fails.

Question 40 Science

Which of the following tools is more efficient for the production of electricity from the sun? مندرجہ ذیل میں سے کون سا ٹول سورج سے بجلی کی تیاری کے لئے زیادہ موثر ہے؟

- A. Solar cell ✓ **Correct answer**
- B. Galvanic cell
- C. Lead cell
- D. None of these

A. Correct: a solar cell converts sunlight directly into electricity.

B. Wrong: a galvanic cell produces electricity from a chemical reaction, not from the sun.

C. Wrong: a lead cell is a storage battery, not a sunlight converter.

D. Wrong: option A is correct, so 'None of these' fails.

41 Science

Bacteria help to break dead _____? بیکٹیریا کس مردہ توڑنے میں مدد کرتے ہیں؟

- A. Organic matter ✓ **Correct answer**
- B. Fossils
- C. Alloys
- D. None of these

A. Correct: bacteria break down dead organic matter into simpler substances.

B. Wrong: fossils are mineralised remains; bacteria do not 'break' fossils.

C. Wrong: alloys are metal mixtures; bacteria do not break them down.

D. Wrong: option A is correct, so 'None of these' fails.

Question 42 Science

The dark-colored organic matter formed in the soil by the decomposition of animals and plants is referred to as _____? جانوروں اور پودوں کے گلنے کے ذریعہ مٹی میں سیاہ رنگ کا نامیاتی معاملہ تشکیل دیا جاتا ہے جسے _____ کہا جاتا ہے؟

- A. Fossils
- B. Chalk
- C. Humus ✓ **Correct answer**
- D. None of these

A. Wrong: fossils are preserved remains of organisms, not dark soil matter.

B. Wrong: chalk is a calcium carbonate rock, not dark soil matter.

C. Correct: humus is the dark-coloured organic matter formed in soil by decomposition.

D. Wrong: option C is correct, so 'None of these' fails.

43 Science

?_____ The optimal use of nature for the production of renewable energy and food is called

قابل تجدید توانائی اور کھانے کی تیاری کے لئے فطرت کے زیادہ سے زیادہ استعمال کو _____ کہا جاتا ہے؟

- A. Environmental auditing
- B. Ecological succession
- C. Environmental biotechnology ✓ **Correct answer**
- D. None of these

A. Wrong: environmental auditing checks compliance with environmental rules; it is not the use of nature to produce energy and food.

B. Wrong: ecological succession is the natural change of communities over time, not the use of nature for production.

C. Correct: environmental biotechnology is defined as the optimal use of nature — plants, animals, bacteria and more — to produce renewable energy, food and nutrients (Wikipedia; ResearchGate).

D. Wrong: option C is correct, so 'None of these' fails.

Question 44 Science

یہ سبز پتی ?These are green leaf-like parts which protect the inner parts in bud condition

جیسے حصے ہیں جو بڈ کی حالت میں اندرونی حصوں کی حفاظت کرتے ہیں؟

- A. Corolla
- B. Calyx ✓ **Correct answer**
- C. Gynoecium
- D. None of these

A. Wrong: the corolla is the petals, not the green protective parts.

B. Correct: the calyx (sepals) is the green leaf-like parts that protect the inner parts in bud

C. Wrong: the gynoecium is the female reproductive part of the flower.

D. Wrong: option B is correct, so 'None of these' fails.

Question 45 Science

جیسا کہ پلانٹ ایک سیل کے مقابلے ?_____ As compared to plant a cell, a typical animal cell contains

میں ، ایک عام جانوروں کے خلیے میں _____ ہوتا ہے؟

- A. Central nucleus ✓ **Correct answer**
- B. Cellulosic cell wall
- C. Large central vacuole
- D. None of these

A. Correct: a typical animal cell has a central nucleus; in a plant cell the large vacuole pushes the nucleus aside.

B. Wrong: a cellulosic cell wall belongs to plant cells, not animal cells.

C. Wrong: a large central vacuole belongs to plant cells, not animal cells.

D. Wrong: option A is correct, so 'None of these' fails.

Question 46 Mathematics

If a,b,c are any three whole numbers such that, a×(b+c)=a×b+a×c. Then this property is known as _____?

- A. Distributive law of addition over multiplication
- B. Distributive law of multiplication over addition ✓ **Correct answer**
- C. Commutative law of multiplication
- D. None of these

A. Wrong: the distributive law of addition over multiplication is not a standard law — the

B. Correct: a×(b+c) = a×b + a×c is the distributive law of multiplication over addition.

C. Wrong: the commutative law is about order (a×b = b×a), not distribution over a sum.

D. Wrong: option B is correct, so 'None of these' fails.

Question 47 Mathematics

Which of the following is an in-equation?

- A. 7x - 1 = 0
- B. 5x - 1 < 0 ✓ **Correct answer**
- C. ax + b = 0
- D. None of these

A. Wrong: 7x − 1 = 0 is an equation (it uses =), not an in-equation.

B. Correct: 5x − 1 < 0 uses the inequality sign, so it is an in-equation.

C. Wrong: ax + b = 0 is an equation (it uses =), not an in-equation.

D. Wrong: option B is correct, so 'None of these' fails.

Question 48 Mathematics

The mean proportional of 4 and 16 is _____?

- A. 16
- B. 8 ✓ **Correct answer**
- C. 9
- D. None of these

A. Wrong: 16 is 4 × 4, not the mean proportional of 4 and 16.

B. Correct: the mean proportional of 4 and 16 is √(4 × 16) = √64 = 8.

s not the mean proportional of 4 and 16.

D. Wrong: option B is correct, so 'None of these' fails.

Question 49 Mathematics

Translate 3x + 2y in words?

- A. Sum of three times of x and three times of y
- B. Sum of three times of x and two times of y ✓ **Correct answer**
- C. Sum of one time x and three times of y
- D. None of these

A. Wrong: 3x + 2y is not three times of y — the y term is two times.

B. Correct: 3x + 2y reads 'the sum of three times of x and two times of y'.

C. Wrong: 3x + 2y is not one time x and three times y.

D. Wrong: option B is correct, so 'None of these' fails.

Question 50 Mathematics

Write in expression "six times the sum of x and five"?

- A. 6 + 5x
- B. 6(x + 5) ✓ **Correct answer**
- C. 6x + 5
- D. None of these

A. Wrong: 6 + 5x is six plus five times x, not six times the sum.

B. Correct: 'six times the sum of x and five' is 6(x + 5).

C. Wrong: 6x + 5 is six times x plus five, not six times the sum.

D. Wrong: option B is correct, so 'None of these' fails.

51 Mathematics

Find the value of n in the equation 2 7 = 8?

- A. -1/2 ✓ **Correct answer**
- B. 0
- C. 15/2
- D. None of these

A. Correct: 2x − 7 = −8 gives 2x = −1, so x = −1/2.

B. Wrong: x = 0 does not satisfy 2x − 7 = −8.

C. Wrong: x = 15/2 does not satisfy 2x − 7 = −8.

D. Wrong: option A is correct, so 'None of these' fails.

Question 52 Mathematics

HCF of 14, 35, and 98 is?

- A. 7 ✓ **Correct answer**
- B. 14
- C. 21
- D. None of these

A. Correct: the highest common factor of 14, 35 and 98 is 7.

B. Wrong: 14 is not a factor of 35.

C. Wrong: 21 is not a factor of 14.

D. Wrong: option A is correct, so 'None of these' fails.

Question 53 Mathematics

A decimal which can be written in fraction of the form p/q is called ____?

onal number ✓ **Correct answer**

- B. Irrational number
- C. Terminating decimal
- D. None of these

A. Correct: a decimal that can be written as p/q is a rational number.

B. Wrong: an irrational number cannot be written in the form p/q.

C. Wrong: a terminating decimal is a kind of decimal, not the name for the p/q form.

D. Wrong: option A is correct, so 'None of these' fails.

Question 54 Mathematics

$2(7x-3)+5(-2x+6)=$ _____?

- A. $4x+36$
- B. $4x+24$ ✓ **Correct answer**
- C. $14x+24$
- D. None of these

A. Wrong: 4x + 36 comes from an arithmetic slip in the constant term.

B. Correct: $2(7x - 3) + 5(-2x + 6) = 14x - 6 - 10x + 30 = 4x + 24$.

C. Wrong: 14x + 24 leaves the −2x term unexpanded.

D. Wrong: option B is correct, so 'None of these' fails.

Question 55 Mathematics

How 0.2 is written in percentage form?

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

A. Wrong: 0.2 is not 5%.

B. Wrong: 0.2 is not 10%.

C. Correct: 0.2 × 100 = 20%.

D. Wrong: option C is correct, so 'None of these' fails.

Question 56 Mathematics

An algebraic expression in which the powers of variables are whole numbers is called _____?

- A. Factorization
- B. Variables
- C. Polynomials ✓ **Correct answer**
- D. None of these

A. Wrong: factorization is breaking an expression into factors, not the expression itself.

B. Wrong: variables are the symbols (x, y); the expression with whole-number powers is the polynomial.

C. Correct: an algebraic expression with whole-number powers of variables is a polynomial.

D. Wrong: option C is correct, so 'None of these' fails.

Question 57 Mathematics

( ) is _____?

- A. Parentheses ✓ **Correct answer**
- B. Vinculum
- C. Braces

ne of these

A. Correct: ( ) are parentheses.

B. Wrong: a vinculum is an overbar, not ( ).

C. Wrong: braces are { }, not ( ).

D. Wrong: option A is correct, so 'None of these' fails.

Question 58 Mathematics

Choose the number of which 5 is a factor?

- A. 735 ✓ **Correct answer**
- B. 321
- C. 452
- D. None of these

A. Correct: 735 ends in 5, so 5 is a factor of it.

B. Wrong: 321 ends in 1, so 5 is not a factor of it.

C. Wrong: 452 ends in 2, so 5 is not a factor of it.

D. Wrong: option A is correct, so 'None of these' fails.

Question 59 Mathematics

X ≤ Y means ____?

- A. x is less than or equal to y ✓ **Correct answer**
- B. x is less than y
- C. x is greater than y
- D. None of these

A. Correct: X ≤ Y means x is less than or equal to y.

is less than y' leaves out 'or equal to'.

C. Wrong: 'x is greater than y' reverses the sign.

D. Wrong: option A is correct, so 'None of these' fails.

Question 60 Mathematics

The geometric mean of 9 and 25 is?

- A. 15 ✓ **Correct answer**
- B. 18
- C. 25
- D. None of these

A. Correct: the geometric mean of 9 and 25 is √(9 × 25) = √225 = 15.

B. Wrong: 18 is not the geometric mean of 9 and 25.

C. Wrong: 25 is one of the numbers itself, not their geometric mean.

D. Wrong: option A is correct, so 'None of these' fails.

Question 61 English

Select matching pair: Quickly : Quick ::

- A. Regards : Disregard
- B. Timely : Time ✓ **Correct answer**
- C. Respectfully : Respectful
- D. None of these

A. Wrong: 'Regards : Disregard' is a pair of opposites, not an adverb and its base word.

B. Correct: 'Quickly' is the adverb form of 'Quick'; likewise 'Timely' is the adverb form of 'Time' (TestPoint explanation; the Bettani Series CT paper keys the same pair).

respectfully : Respectful' is an adverb and its adjective — a defensible parallel, but not the filed key; see the note below.

D. Wrong: option B is correct, so 'None of these' fails.

Note: Note: 'Respectfully : Respectful' is also a defensible adverb:adjective parallel — the Bettani Series CT paper's own reasoning ('adverb to related adjective') fits it, since 'Time' is a noun, not an adjective. The filed key follows the two banks' key (Timely : Time), treating 'timely' as the adverb form of 'time'.

Question 62 English

Select matching pair: Praise : Criticize ::

- A. Shrink : Shrunk
- B. Silent : Noiseless
- C. Arrest : Free ✓ **Correct answer**
- D. None of these

A. Wrong: 'Shrink : Shrunk' is a verb and its past form, not a pair of opposites.

B. Wrong: 'Silent : Noiseless' are synonyms, not opposites.

C. Correct: 'Praise : Criticize' are opposites, and so are 'Arrest : Free'.

D. Wrong: option C is correct, so 'None of these' fails.

Question 63 English

Select matching pair: Classify : Classification ::

- A. Shatter : Shattering ✓ **Correct answer**
- B. Just : Justify
- C. Length : Lengthy
- D. None of these

classify : classification' is verb : noun form, and so is 'Shatter : Shattering'.

B. Wrong: 'Just : Justify' is adjective : verb — the reverse direction.

C. Wrong: 'Length : Lengthy' is noun : adjective, not verb : noun.

D. Wrong: option A is correct, so 'None of these' fails.

Question 64 English

Select matching pair: Keep : Kept ::

- A. Teach : Taught ✓ **Correct answer**
- B. Sleep : Sleeps
- C. Cry : Cries
- D. None of these

A. Correct: 'Keep : Kept' is an irregular past form, and so is 'Teach : Taught'.

B. Wrong: 'Sleep : Sleeps' is present-tense singular, not a past form.

C. Wrong: 'Cry : Cries' is present-tense singular, not a past form.

D. Wrong: option A is correct, so 'None of these' fails.

Question 65 English

The Antonym of FAT is?

- A. Lean ✓ **Correct answer**
- B. Strong
- C. Weak
- D. None of these

A. Correct: 'Lean' is the opposite of 'Fat'.

B. Wrong: 'Strong' is unrelated to 'Fat'.

'eak' is not the opposite of 'Fat'.

D. Wrong: option A is correct, so 'None of these' fails.

Question 66 English

The Antonym of PRACTICE is?

- A. Patience
- B. Silence
- C. Refrain ✓ **Correct answer**
- D. None of these

A. Wrong: 'Patience' is unrelated to 'Practice'.

B. Wrong: 'Silence' is unrelated to 'Practice'.

C. Correct: 'Practice' (to do repeatedly) is opposed by 'Refrain' (to hold back from doing).

D. Wrong: option C is correct, so 'None of these' fails.

Question 67 English

The Antonym of SPICE is?

- A. Sweetness ✓ **Correct answer**
- B. Salt
- C. Sugar
- D. Pepper

A. Correct: 'Spice' (pungency) is opposed by 'Sweetness' (TestPoint explanation).

B. Wrong: 'Salt' is a seasoning, not the opposite of spice.

C. Wrong: 'Sugar' is a sweetener, but the quality opposite to spiciness is sweetness.

D. Wrong: 'Pepper' is itself a spice.

68 English

The Antonym of CREATE is?

- A. Destroy ✓ **Correct answer**
- B. Present
- C. Conceal
- D. None of these

A. Correct: 'Destroy' is the opposite of 'Create'.

B. Wrong: 'Present' is unrelated to 'Create'.

C. Wrong: 'Conceal' means to hide, not the opposite of 'Create'.

D. Wrong: option A is correct, so 'None of these' fails.

Question 69 English

Passage: The 21th century is the century of sophisticated technology and science. Technology and science began to make progress in the seventeenth century. The word 'century' is a/n _____?

- A. Noun ✓ **Correct answer**
- B. Conjunction
- C. Preposition
- D. Article

A. Correct: 'century' is a naming word — a common noun (source explanation).

B. Wrong: a conjunction joins words or clauses; 'century' does not.

C. Wrong: a preposition shows a relation; 'century' does not.

D. Wrong: an article is a, an or the; 'century' is not one.

70 English

Passage: The 21th century is the century of sophisticated technology and science. Technology and science began to make progress in the seventeenth century. The word 'began' in the passage is a/an _____?

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

A. Wrong: 'began' is not a noun.

B. Wrong: 'began' is not a conjunction.

C. Wrong: 'began' is not a preposition.

D. Correct: 'began' is the past tense of 'begin' — an action word, a verb (source explanation).

Question 71 English

Every year Nasirudin Day is _____ in Turkey.

- A. Celebrate
- B. Celebrated ✓ **Correct answer**
- C. Celebrately
- D. None of these

A. Wrong: 'is Celebrate' is ungrammatical — the base form cannot follow 'is'.

B. Correct: 'is Celebrated' — the passive form Nasirudin Day 'is celebrated' in Turkey.

C. Wrong: 'Celebrately' is not a word.

D. Wrong: option B is correct, so 'None of these' fails.

72 English

Saqib writes in a simple and _____ way.

- A. Understandable ✓ **Correct answer**
- B. Understand
- C. Understands
- D. None of these

A. Correct: 'simple and Understandable' — an adjective is needed after 'and'.

B. Wrong: 'Understand' is a verb, not the adjective the sentence needs.

C. Wrong: 'Understands' is a verb form, not the adjective the sentence needs.

D. Wrong: option A is correct, so 'None of these' fails.

Question 73 English

He has _____ teaching in this school _____ three years.

- A. Be - in
- B. As - since
- C. Been - for ✓ **Correct answer**
- D. None of these

A. Wrong: 'has Be teaching in this school in three years' is ungrammatical.

B. Wrong: 'has As teaching since three years' is ungrammatical, and 'since' needs a point in time.

C. Correct: 'has Been teaching in this school for three years' — present perfect continuous with 'for'.

D. Wrong: option C is correct, so 'None of these' fails.

74 English

A preposition _____ a relationship between ideas in a sentence.

- A. Show
- B. Shows ✓ **Correct answer**
- C. Showing
- D. None of these

A. Wrong: 'Show' is the plural verb form; the subject 'a preposition' is singular.

B. Correct: 'A preposition Shows a relationship between ideas in a sentence.'

C. Wrong: 'Showing' is a participle and cannot serve as the main verb here.

D. Wrong: option B is correct, so 'None of these' fails.

Question 75 English

Emily Dickinson was _____ in Amherst.

- A. Bore
- B. Born ✓ **Correct answer**
- C. Bearing
- D. None of these

A. Wrong: 'was Bore' is the past of 'bear' (to carry), not 'born'.

B. Correct: 'Emily Dickinson was Born in Amherst.'

C. Wrong: 'was Bearing' is a participle and cannot complete the sentence.

D. Wrong: option B is correct, so 'None of these' fails.

Question 76 English

Wild Beast in small cages are a sorry _____?

- B. Sight ✓ **Correct answer**
- C. Sights
- D. None of these

A. Wrong: 'a sorry Sighting' is the act of seeing, not the idiom.

B. Correct: 'a sorry Sight' is the idiom — wild beasts in small cages are a sorry sight.

C. Wrong: 'Sights' is plural and does not fit the singular idiom.

D. Wrong: option B is correct, so 'None of these' fails.

Question 77 English

I say good morning _____ father and mother.

- A. To ✓ **Correct answer**
- B. Up
- C. Too
- D. None of these

A. Correct: 'I say good morning To father and mother.'

B. Wrong: 'Up' does not fit after 'good morning'.

C. Wrong: 'Too' means 'also'; it is not the preposition needed here.

D. Wrong: option A is correct, so 'None of these' fails.

Question 78 English

We should be _____ citizens.

- A. Responsibly
- B. Response
- C. Responsible ✓ **Correct answer**

A. Wrong: 'Responsibly' is an adverb; the sentence needs an adjective after 'be'.

B. Wrong: 'Response' is a noun; the sentence needs an adjective.

C. Correct: 'We should be Responsible citizens.'

D. Wrong: option C is correct, so 'None of these' fails.

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