Junior Elementary School Teacher (JEST, BPS-14), School Education & Literacy Department, Government of Sindh — 2018 · Solved Past Paper

Body: Sindh Testing Service (STS) · **Post:** Junior Elementary School Teacher (JEST, BPS-14), School Education & Literacy Department, Government of Sindh · **Year:** 2018 · **Questions:** 100 in the original paper — **100 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 2018 sitting.

Source note: trickipoint.com scan of the original SIBA STS booklet, 'IBA SUKKUR JEST BPS-14 PAST PAPER NOVEMBER 2018' (accessed 9 Nov 2026; 12 scanned pages, Q1–Q100 plus the official answer key). The official STS answer key printed as the last page of the same scan gives the answer letter for all 100 questions; all 100 answers below match that key and were also checked independently (worked derivations, reference facts and standard textbook rules) against the stems and options as printed.

Question 1 English

English. Reading & Comprehension (Q1–Q15). Passage for Reading & Comprehension (Q1–Q15). Please read the following passage carefully and answer the following first fifteen questions set below it. Accidents are common these days, especially road accidents. There are some reasons why these accidents happen and cause injury or damage. Many people are killed or seriously injured in these accidents. One in seven

caused by sleepy drivers. There are the road safety rules that most people do not follow and that is why accidents take place every day and everywhere. According to the latest information, all these who use the roads are responsible for accidents. They include pedestrians, truck and bus drivers. Motorcyclists drive very fast without using helmets to protect their heads. Some of them perform dangerous and difficult stunts. Children play in the streets and in this way they invite dangers and often get hurt. Sometimes they risk their lives while playing dangerous sports. Some dirty little street urchins run after moving vehicles just for fun. Some naughty children run in front of moving vehicles. Some people cross busy roads just to gain a few split seconds. School children cross roads in a hurry from wrong side. All these foolish hasty movements often cause accidents. However, there are some suitable measures through which bad accidents can be averted. Of them, safety factors are most important. They include certain plans. The media can give people road safety instructions. Local police can impart knowledge about traffic safe travel, hazard-free driving and risk-free ride. In this regard, parents can play an important role and save their children's lives by advising them not to endanger their lives on busy roads and in or at places exposed to danger. They must not allow their children to drive without a driving licence. Moreover, they should advise them on road safety rules, traffic rules, and safe driving. Q1. The first paragraph of the passage is mainly about:

- A. The road safety rules
- B. Roads make travel easy
- C. Road traffic accidents ✓ **Correct answer**
- D. Safe travel

A. Wrong: the first paragraph is about accidents and why they happen, not about the safety rules

B. Wrong: the first paragraph does not say roads make travel easy

C. Correct: the first paragraph is mainly about road traffic accidents — how common they are and why they happen

fe travel is the theme of the later paragraphs, not the first

Question 2 English

English. (From the passage printed under Q1.) The second paragraph of the passage is mainly about:

- A. truck drivers and pedestrians
- B. bus drivers and motorcyclists
- C. fast driving and children playing in the streets
- D. major reasons why accidents occur ✓ **Correct answer**

A. Wrong: truck drivers and pedestrians are only two of the many causes listed

B. Wrong: bus drivers and motorcyclists are only two of the many causes listed

C. Wrong: fast driving and children playing are only two of the many causes listed

D. Correct: the second paragraph lists the major reasons why accidents occur — motorcyclists without helmets, stunts, children playing, urchins, naughty children, crossing busy roads

Question 3 English

English. (From the passage printed under Q1.) The third paragraph of the passage is mainly about:

- A. The traffic education and traffic rules
- B. Safety factors that can make roads safe for use ✓ **Correct answer**
- C. A number of strategies and the media
- D. Safety instructions, schools, local police stations and the traffic police

A. Wrong: traffic education and rules are part of the paragraph, but its theme is the safety factors

B. Correct: the third paragraph is about the suitable measures and safety factors that can

C. Wrong: strategies and the media are mentioned, but they are not the paragraph's main theme

D. Wrong: schools and police stations are not what the third paragraph is about

Question 4 English

English. (From the passage printed under Q1.) The last (fourth) paragraph of the passage, containing some pieces of advice for parents, conveys an _____ sense of safety of families.

- A. imperative
- B. obligatory
- C. instructive ✓ **Correct answer**
- D. essential

A. Wrong: the paragraph advises and instructs parents; it does not command in the imperative sense

B. Wrong: the paragraph gives advice; it does not impose an obligation

C. Correct: the paragraph advises parents on road safety — it conveys an instructive sense of safety

D. Wrong: the paragraph is advisory, not a statement of what is essential

Question 5 English

English. (From the passage printed under Q1.) Style of writing or mode of communication in which the above passage has been composed is:

- A. expository ✓ **Correct answer**
- B. descriptive
- C. narrative

A. Correct: the passage explains and informs about accidents and safety — it is expository

B. Wrong: the passage does not merely describe a scene

C. Wrong: the passage tells no story

D. Wrong: the passage does not analyse in the analytical sense

Question 6 English

English. Synonyms. Many people are killed or seriously injured in these accidents. (Synonym of the underlined word "seriously".)

- A. critically ✓ **Correct answer**
- B. particularly
- C. especially
- D. very

A. Correct: seriously injured means critically injured

B. Wrong: particularly does not mean seriously

C. Wrong: especially does not mean seriously

D. Wrong: very does not give the meaning of seriously

Question 7 English

English. Synonyms. One in seven accidents is caused by sleepy drivers. (Synonym of the underlined word "sleepy".)

- A. dormant
- B. inactive
- C. drowsy ✓ **Correct answer**
- D. unconscious

dormant means inactive or asleep in a different sense, not sleepy

B. Wrong: inactive does not mean sleepy

C. Correct: sleepy means drowsy

D. Wrong: unconscious is far stronger than sleepy

Question 8 English

English. Synonyms. According to the latest information, all those who use roads are responsible for accidents. (Synonym of the underlined words "the latest".)

- A. earliest
- B. the most modern
- C. foremost
- D. the most recent ✓ **Correct answer**

A. Wrong: earliest is the opposite of latest

B. Wrong: the most modern does not mean the latest in this context

C. Wrong: foremost means leading, not latest

D. Correct: the latest information is the most recent information

Question 9 English

English. Synonyms. Some naughty children run in front of moving vehicles. (Synonym of the underlined word "naughty".)

- A. mischievous ✓ **Correct answer**
- B. making fun of others
- C. clever
- D. very bad

A. Correct: naughty means mischievous

aking fun of others is not the meaning of naughty

C. Wrong: clever is not the meaning of naughty

D. Wrong: very bad is far stronger than naughty

Question 10 English

English. Synonyms. However, there are some suitable measures through which bad accidents can be averted. (Synonym of the underlined word "averted".)

- A. checked
- B. stopped
- C. neglected
- D. avoided ✓ **Correct answer**

A. Wrong: checked does not mean averted

B. Wrong: stopped is close, but averted means prevented from happening — avoided

C. Wrong: neglected is the opposite of averted

D. Correct: averted means avoided or prevented

Question 11 English

English. Antonyms. Motorcyclists drive very fast without using helmets to protect their heads. (Antonym of the underlined word "without".)

- A. within
- B. with ✓ **Correct answer**
- C. withhold
- D. withstand

A. Wrong: within is not the antonym of without

B. Correct: the antonym of without is with

withhold means to hold back, it is not the antonym of without

D. Wrong: withstand means to resist, it is not the antonym of without

Question 12 English

English. Antonyms. Children play in the streets and in this way they invite dangers. (Antonym of the underlined word "invite".)

- A. resist
- B. hate
- C. avert ✓ **Correct answer**
- D. stop

A. Wrong: resist is not the antonym of invite in this context

B. Wrong: hate is not the antonym of invite

C. Correct: to invite dangers is to bring them on; the antonym is to avert them

D. Wrong: stop is not the antonym of invite

Question 13 English

English. Antonyms. Some people cross busy roads just to gain a few split seconds. (Antonym of the underlined word "busy".)

- A. clear ✓ **Correct answer**
- B. empty
- C. vacant
- D. clean

A. Correct: a busy road is full of traffic; a clear road is free of traffic — the antonym the printed official key gives, and the standard road-context opposite

B. Wrong: an empty road is also free of traffic, but the printed official key gives "clear" as

C. Wrong: vacant describes a place, not a road full of traffic

D. Wrong: clean is not the antonym of busy

Question 14 English

English. Antonyms. All these hasty movements often cause accidents. (Antonym of the underlined word "hasty".)

- A. slow
- B. deliberate ✓ **Correct answer**
- C. measured
- D. thoughtful

A. Wrong: slow is close, but the standard antonym for hasty action is deliberate

B. Correct: hasty means rash and hurried; its antonym is deliberate — done carefully and with thought

C. Wrong: measured is close, but deliberate is the standard antonym for hasty

D. Wrong: thoughtful is close, but deliberate is the standard antonym for hasty

Question 15 English

English. Antonyms. Of them, safety factors are most important. (Antonym of the underlined words "most important".)

- A. least important ✓ **Correct answer**
- B. some important
- C. any important
- D. quite important

A. Correct: the antonym of most important is least important

me important is not the antonym of most important

C. Wrong: any important is not the antonym of most important

D. Wrong: quite important is not the antonym of most important

Question 16 English

English. Use of Preposition. Many minerals were found _____ the surface of the earth.

- A. under ✓ **Correct answer**
- B. below
- C. into
- D. within

A. Correct: minerals are found under the surface of the earth — the idiomatic phrase, and the answer the printed official key gives

B. Wrong: "below the surface" is also idiomatic, but the printed official key gives "under"

C. Wrong: minerals are not found "into" the surface

D. Wrong: minerals are not found "within" the surface in this idiom

Question 17 English

English. Use of Preposition. A huge crowd is waiting _____ the stadium.

- A. before
- B. outside ✓ **Correct answer**
- C. at
- D. near

A. Wrong: a crowd waits outside the stadium, not "before" it

B. Correct: a huge crowd is waiting outside the stadium

crowd waiting" at the stadium does not give the intended meaning

D. Wrong: a crowd waiting "near" the stadium is weaker than the intended "outside"

Question 18 English

English. Use of Preposition. The coin rolled _____ the sofa.

- A. over
- B. upon
- C. under ✓ **Correct answer**
- D. below

A. Wrong: a coin that rolls away from sight goes under the sofa, not over it

B. Wrong: a coin does not roll "upon" the sofa in this sense

C. Correct: the coin rolled under the sofa

D. Wrong: a coin rolls under a sofa, not below it

Question 19 English

English. Use of Preposition. We learn a lot _____ the people of Pakistan _____ this poem.

- A. about, in ✓ **Correct answer**
- B. for, from
- C. of, by
- D. from, in

A. Correct: we learn a lot about the people of Pakistan in this poem — "learn about" is the idiomatic collocation, and the answer the printed official key gives

B. Wrong: "learn for the people" is not idiomatic

C. Wrong: "learn of the people" is not the idiom here

learn from the people" is grammatical, but the printed official key gives "about, in"

Question 20 English

English. Use of Preposition. I had studied Japanese _____ keen interest before I went to study _____ Japan.

- A. in, in
- B. by, at
- C. with, in ✓ **Correct answer**
- D. for, into

A. Wrong: "in keen interest" is not the idiom

B. Wrong: "by keen interest" and "study at Japan" are both wrong

C. Correct: one studies with keen interest, and studies in Japan

D. Wrong: "for keen interest" and "study into Japan" are both wrong

Question 21 Mathematics

Mathematics. A drink contains 20% mango juice and the rest is apple juice. What is the ratio of mango juice to apple juice?

- A. 1:4 ✓ **Correct answer**
- B. 1:20
- C. 4:1
- D. 20:1

A. Correct: mango is 20% and apple is 80%, so the ratio is 20:80 = 1:4

B. Wrong: 1:20 would mean 1 part mango to 20 parts apple

C. Wrong: 4:1 is the apple-to-mango ratio, the reverse

): 1 is not the ratio

Question 22 Mathematics

Mathematics. If 8 bags of chips cost $10.32; how much will you pay for 20 bags?

- A. $25.80 ✓ **Correct answer**
- B. $23.80
- C. $28.50
- D. $25

A. Correct: one bag costs 10.32 / 8 = $1.29, so 20 bags cost 20 x 1.29 = $25.80

B. Wrong: $23.80 does not follow from the unit price

C. Wrong: $28.50 does not follow from the unit price

D. Wrong: $25 is a rounded guess, not the exact price

Question 23 Mathematics

Mathematics. A recipe serves 10 people and uses 3 cups of flour. If you want to make the recipe for 15 people, how many cups of flour should you use?

- A. 45 cups
- B. 30 cups
- C. 5.5 cups
- D. 4.5 cups ✓ **Correct answer**

A. Wrong: 45 cups is 3 x 15, not the scaled amount

B. Wrong: 30 cups is 3 x 10, not the scaled amount

C. Wrong: 5.5 cups does not follow from the scaling

D. Correct: 15 people is 1.5 times 10, so the flour is 3 x 1.5 = 4.5 cups

24 Mathematics

Mathematics. What is the value of the expression shown below when a = 36, b = 12, and c = 2? 3(a divided by b) to the power c.

- A. 9
- B. 18
- C. 27 ✓ **Correct answer**
- D. 81

A. Wrong: 3 x (36/12)2 = 3 x 9 = 27, not 9

B. Wrong: 3 x (36/12)2 = 3 x 9 = 27, not 18

C. Correct: a / b = 3, 32 = 9, and 3 x 9 = 27

D. Wrong: 81 would be 34, not the value of this expression

Question 25 Mathematics

Mathematics. The scale shows how much 4 apples weigh. (The scale's dial reads 2 Kg for the 4 apples.) How much would 10 apples of the same size weight?

- A. 5Kg ✓ **Correct answer**
- B. 6Kg
- C. 7Kg
- D. 4Kg

A. Correct: 4 apples weigh 2 Kg, so one apple weighs 0.5 Kg and 10 apples weigh 5 Kg

B. Wrong: 10 apples at 0.5 Kg each weigh 5 Kg, not 6 Kg

C. Wrong: 10 apples at 0.5 Kg each weigh 5 Kg, not 7 Kg

D. Wrong: 4 Kg would be the weight of 8 apples, not 10

26 Mathematics

Mathematics. The shaded parts of the diagram represent the spaces that are reserved. What percent of the spaces is reserved? (Parking Lot diagram: 5 columns by 4 rows = 20 spaces, of which 8 are shaded.)

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

A. Wrong: 8 of 20 spaces is 40%, not 20%

B. Wrong: 8 of 20 spaces is 40%, not 30%

C. Correct: 8 shaded of 20 spaces is 8/20 = 40%

D. Wrong: 8 of 20 spaces is 40%, not 50%

Question 27 Mathematics

Mathematics. The area of a square is determined using the formula A = s2. What is the length, in inches, of each side of this square? (The diagram shows a square with A = 169 in.2.)

- A. 13 in. ✓ **Correct answer**
- B. 14 in.
- C. 42.25 in.
- D. 84.5 in.

A. Correct: the side is the square root of 169, which is 13 in.

B. Wrong: 142 = 196, not 169

C. Wrong: 42.25 is 169/4, not the side of the square

D. Wrong: 84.5 is 169/2, not the side of the square

Mathematics. A circle is shown. (The diagram shows a circle with a line from the centre to the edge labelled 18 cm.) Which statement about the circle is true?

- A. The diameter is 9 cm.
- B. The diameter is 36 cm. ✓ **Correct answer**
- C. The radius is 9 cm.
- D. The radius is 36 cm.

A. Wrong: the diameter is twice the radius, 36 cm, not 9 cm

B. Correct: the labelled line is the radius, 18 cm, so the diameter is 2 x 18 = 36 cm

C. Wrong: the radius is 18 cm, not 9 cm

D. Wrong: the radius is 18 cm, not 36 cm

Question 29 Mathematics

Mathematics. The density of an object can be determined using the formula Density = Mass/Volume. The piece of wood shown has a mass of 16 grams. (The block measures 4 cm by 5 cm by 8 cm.) What is the density of the piece of wood?

- A. 0.1 g/cm3 ✓ **Correct answer**
- B. 0.9 g/cm3
- C. 10.0 g/cm3
- D. 11.5 g/cm3

A. Correct: the volume is 4 x 5 x 8 = 160 cm3, and 16/160 = 0.1 g/cm3

B. Wrong: 16/160 = 0.1, not 0.9

C. Wrong: 16/160 = 0.1, not 10.0

D. Wrong: 16/160 = 0.1, not 11.5

30 Mathematics

Mathematics. A rectangle has a length of x3 - x + 2 and a width of x + x2. What is the area of the rectangle when x = 2?

- A. 24 square units
- B. 36 square units
- C. 48 square units ✓ **Correct answer**
- D. 128 square units

A. Wrong: at x = 2 the length is 8 - 2 + 2 = 8 and the width is 2 + 4 = 6, giving 48, not 24

B. Wrong: 8 x 6 = 48, not 36

C. Correct: length 8, width 6, area 8 x 6 = 48 square units

D. Wrong: 8 x 6 = 48, not 128

Question 31 General Science

General Science. If a sound wave strikes a surface and return back into first medium, this phenomenon is called

- A. refraction of sound
- B. deflection of sound
- C. defraction of sound
- D. reflection of sound ✓ **Correct answer**

A. Wrong: refraction is bending into a second medium, not returning to the first

B. Wrong: deflection is not the name for this phenomenon

C. Wrong: "defraction" is the scan's spelling of diffraction, which is spreading around an obstacle

D. Correct: a sound wave striking a surface and returning to the first medium is reflection of sound

32 General Science

General Science. The characteristic of sound by which we can differentiate between shrill and grave sound is

- A. frequency
- B. loudness
- C. pitch ✓ **Correct answer**
- D. quality

A. Wrong: frequency is the physical quantity behind pitch, but the characteristic we hear is pitch

B. Wrong: loudness tells how loud a sound is, not whether it is shrill or grave

C. Correct: shrill and grave are differences of pitch

D. Wrong: quality (timbre) tells instruments apart, not shrill from grave

Question 33 General Science

General Science. The to and fro movement of pendulum is known as

- A. Amplitude
- B. vibration ✓ **Correct answer**
- C. waves
- D. pitch

A. Wrong: amplitude is how far the pendulum swings, not the movement itself

B. Correct: the to-and-fro movement of a pendulum is a vibration

C. Wrong: waves are not the to-and-fro movement of a pendulum

D. Wrong: pitch is a property of sound, not of a pendulum

General Science. The heat from sun reaches to earth in form of waves called

- A. fusion
- B. convection
- C. radiation ✓ **Correct answer**
- D. conduction

A. Wrong: fusion is the sun's energy source, not how heat reaches the earth

B. Wrong: convection needs a medium; space has none

C. Correct: heat from the sun reaches the earth by radiation

D. Wrong: conduction needs contact; space has none

Question 35 General Science

General Science. A plane mirror forms an image that is

- A. real and upright.
- B. virtual and upright. ✓ **Correct answer**
- C. real and upside down
- D. virtual and upside down

A. Wrong: a plane mirror does not form a real image

B. Correct: a plane mirror forms a virtual, upright image

C. Wrong: a plane mirror does not form a real image, and its image is upright

D. Wrong: a plane mirror's image is upright, not upside down

Question 36 General Science

General Science. All electromagnetic waves travel through a vacuum at

same speed ✓ **Correct answer**

- B. speeds that are proportional to their frequency
- C. speeds that are inversely proportional to their frequency
- D. None of the above

A. Correct: all electromagnetic waves travel through a vacuum at the same speed, the speed of light

B. Wrong: their speeds do not vary with frequency in a vacuum

C. Wrong: their speeds do not vary inversely with frequency in a vacuum

D. Wrong: the same speed is the correct answer, so this option is wrong

Question 37 General Science

General Science. Which of the following correctly lists electromagnetic waves in order from longest to shortest wavelength?

- A. gamma rays, ultraviolet, infrared, microwaves
- B. microwaves, ultraviolet, visible light, gamma rays
- C. radio waves, infrared, gamma rays, ultraviolet
- D. television, infrared, visible light, X-rays ✓ **Correct answer**

A. Wrong: gamma rays are the shortest, not the longest

B. Wrong: ultraviolet is shorter than visible light, so this order is wrong

C. Wrong: gamma rays are shorter than ultraviolet, so this order is wrong

D. Correct: television (radio) waves are the longest, then infrared, then visible light, then X-rays — the correct order

Question 38 General Science

General Science. Electric current is measured by

- B. Voltmeter
- C. Rheostat
- D. Ammeter ✓ **Correct answer**

A. Wrong: an oscilloscope displays waveforms; it does not measure current directly

B. Wrong: a voltmeter measures voltage, not current

C. Wrong: a rheostat varies resistance; it does not measure current

D. Correct: electric current is measured by an ammeter

Question 39 General Science

General Science. A Voltmeter is always connected in a circuit in

- A. Parallel ✓ **Correct answer**
- B. Series
- C. Some time in series
- D. Both series and parallel

A. Correct: a voltmeter is always connected in parallel across the component

B. Wrong: an ammeter is connected in series, not a voltmeter

C. Wrong: a voltmeter is always in parallel, not sometimes in series

D. Wrong: a voltmeter is not connected in series

Question 40 General Science

General Science. Two masses attract each other, the force is called

- A. gravitational force ✓ **Correct answer**
- B. friction
- C. pull

A. Correct: the attraction between two masses is the gravitational force

B. Wrong: friction opposes motion; it is not the attraction between masses

C. Wrong: "pull" is too general to be the name of this force

D. Wrong: a push is not the attraction between masses

Question 41 General Science

General Science. When calcium carbonate reacts with dilute hydrochloric acid, _____ gas is produced.

- A. hydrogen
- B. oxygen
- C. chlorine
- D. carbon dioxide ✓ **Correct answer**

A. Wrong: calcium carbonate with dilute hydrochloric acid gives carbon dioxide, not hydrogen

B. Wrong: calcium carbonate with dilute hydrochloric acid gives carbon dioxide, not oxygen

C. Wrong: calcium carbonate with dilute hydrochloric acid gives carbon dioxide, not chlorine

D. Correct: calcium carbonate + dilute hydrochloric acid gives calcium chloride + water + carbon dioxide

Question 42 General Science

General Science. Greenhouse effect is an environmental problem which is caused by increasing amount of _____ in the atmosphere.

ogen

- B. hydrogen
- C. helium
- D. carbon dioxide ✓ **Correct answer**

A. Wrong: nitrogen does not cause the greenhouse effect

B. Wrong: hydrogen does not cause the greenhouse effect

C. Wrong: helium does not cause the greenhouse effect

D. Correct: the greenhouse effect is caused by increasing carbon dioxide in the atmosphere

Question 43 General Science

General Science. The reaction in which an acid and a base react to form salt and water only is known as _____ reaction. (Options B and D both print "combustion".)

- A. addition
- B. combustion
- C. neutralization ✓ **Correct answer**
- D. combustion

A. Wrong: an addition reaction does not form only salt and water from an acid and a base

B. Wrong: combustion is burning, not an acid-base reaction

C. Correct: an acid and a base reacting to form salt and water only is neutralization

D. Wrong: combustion is burning, not an acid-base reaction

Question 44 General Science

General Science. Among the following, select one substance which complete this equation: _____ + Sodium hydroxide → Sodium chloride + Water

- B. chlorine
- C. Hydrochloric acid ✓ **Correct answer**
- D. Chlorine oxide

A. Wrong: sodium + sodium hydroxide does not give sodium chloride and water

B. Wrong: chlorine + sodium hydroxide does not give sodium chloride and water

C. Correct: hydrochloric acid + sodium hydroxide gives sodium chloride + water

D. Wrong: chlorine oxide + sodium hydroxide does not give sodium chloride and water

Question 45 General Science

General Science. The most abundant element found in human body by weight is _____.

- A. Carbon
- B. Oxygen ✓ **Correct answer**
- C. Aluminum
- D. Nitrogen

A. Wrong: carbon is abundant but not the most abundant by weight

B. Correct: oxygen is the most abundant element in the human body by weight, about 65%

C. Wrong: aluminum is present only in traces

D. Wrong: nitrogen is present but less than oxygen by weight

Question 46 General Science

General Science. Atom is concentrated in ..... (The mass of the atom is concentrated in its nucleus.)

- B. Electrons
- C. Nucleus ✓ **Correct answer**
- D. None of these

A. Wrong: protons are part of the nucleus, but the mass is concentrated in the nucleus as a whole

B. Wrong: electrons carry almost no mass

C. Correct: the mass of the atom is concentrated in the nucleus

D. Wrong: the nucleus is the answer, so this option is wrong

Question 47 General Science

General Science. Protons and neutrons are .....time heavier than electrons.

- A. 1826
- B. 1836 ✓ **Correct answer**
- C. 1736
- D. 1846

A. Wrong: a proton is about 1836 times heavier than an electron, not 1826

B. Correct: a proton is about 1836 times heavier than an electron

C. Wrong: a proton is about 1836 times heavier than an electron, not 1736

D. Wrong: a proton is about 1836 times heavier than an electron, not 1846

Question 48 General Science

General Science. What can be deduced from the symbol 4He with mass number 4 and atomic number 2?

- A. An atom of helium contains two electrons ✓ **Correct answer**

atom of helium has two protons and four neutrons in its nucleus.

- C. Helium has a proton (atomic) number of 4
- D. Helium occurs as a diatomic molecule

A. Correct: helium has atomic number 2, so a neutral atom has two electrons

B. Wrong: helium-4 has two protons and two neutrons, not four neutrons

C. Wrong: helium's atomic number is 2, not 4

D. Wrong: helium is monatomic, not diatomic

Question 49 General Science

General Science. In periodic table elements are arranged according to

- A. Increase in atomic weight
- B. Increase in atomic number ✓ **Correct answer**
- C. Both a &b
- D. None of the above

A. Wrong: the modern periodic table is not arranged by atomic weight

B. Correct: in the modern periodic table elements are arranged by increasing atomic number

C. Wrong: atomic weight is not the basis, so this combination is wrong

D. Wrong: increasing atomic number is the basis, so this option is wrong

Question 50 General Science

General Science. The noble gases in periodic table are placed in

- A. Group VIII ✓ **Correct answer**
- B. Group II
- C. Group III

A. Correct: in the old group numbering the noble gases are in Group VIII (Group 18)

B. Wrong: Group II holds the alkaline earth metals, not the noble gases

C. Wrong: Group III holds metals, not the noble gases

D. Wrong: Group VI holds the chalcogens, not the noble gases

Question 51 General Science

General Science. Food chain always starts from

- A. Producer ✓ **Correct answer**
- B. Consumer
- C. Decomposer
- D. Scavenger

A. Correct: a food chain always starts from a producer

B. Wrong: a consumer comes after the producer in a food chain

C. Wrong: a decomposer comes at the end of a food chain

D. Wrong: a scavenger comes after the producer in a food chain

Question 52 General Science

General Science. The chemical formula for of ozone gas is

- A. O2
- B. O3 ✓ **Correct answer**
- C. O4
- D. O5

A. Wrong: O2 is oxygen gas, not ozone

C. Wrong: O4 is not the formula of ozone

D. Wrong: O5 is not the formula of ozone

Question 53 General Science

General Science. Recognize the part of eye which control the amount of light entering inside the eye is

- A. Cornea
- B. Pupil ✓ **Correct answer**
- C. Lens
- D. Retina

A. Wrong: the cornea bends light; it does not control how much enters

B. Correct: the pupil is the opening that controls the amount of light entering the eye

C. Wrong: the lens focuses light; it does not control how much enters

D. Wrong: the retina receives light; it does not control how much enters

Question 54 General Science

General Science. Sphygmomanometer is type of meter that is used to measure

- A. Blood pressure ✓ **Correct answer**
- B. Temperature
- C. Humidity
- D. Vision

A. Correct: a sphygmomanometer measures blood pressure

B. Wrong: a sphygmomanometer does not measure temperature

D. Wrong: a sphygmomanometer does not measure vision

Question 55 General Science

General Science. This is Layer of atmospheric gas that absorbs harmful ultraviolet rays from Sun

- A. troposphere
- B. ozone layer ✓ **Correct answer**
- C. thermosphere
- D. mesosphere

A. Wrong: the troposphere does not absorb the harmful ultraviolet rays

B. Correct: the ozone layer absorbs the harmful ultraviolet rays from the sun

C. Wrong: the thermosphere does not absorb the harmful ultraviolet rays

D. Wrong: the mesosphere does not absorb the harmful ultraviolet rays

Question 56 General Science

General Science. The function of oesophagus in digestive system is to

- A. Digest the food
- B. Store the food
- C. Excrete the food
- D. Pass the food to the stomach ✓ **Correct answer**

A. Wrong: the oesophagus does not digest food

B. Wrong: the oesophagus does not store food

C. Wrong: the oesophagus does not excrete food

ne oesophagus passes food to the stomach

Question 57 General Science

General Science. The movement of sugar from leaves to different parts of plants body is termed as

- A. Transpiration
- B. Transportation
- C. Translocation ✓ **Correct answer**
- D. Transcription

A. Wrong: transpiration is the loss of water vapour from leaves

B. Wrong: transportation is too general a term for this movement

C. Correct: the movement of sugar from leaves to other parts of the plant is translocation

D. Wrong: transcription is the copying of DNA into RNA

Question 58 General Science

General Science. Which organ is made up of air-carrying tubes and tiny sacs?

- A. Lungs ✓ **Correct answer**
- B. Stomach
- C. Brain
- D. Diaphragm

A. Correct: the lungs are made of air-carrying tubes (bronchi) and tiny sacs (alveoli)

B. Wrong: the stomach is not made of air-carrying tubes and tiny sacs

C. Wrong: the brain is not made of air-carrying tubes and tiny sacs

D. Wrong: the diaphragm is a muscle, not an organ of air-carrying tubes and sacs

59 General Science

General Science. Respiration involves:

- A. chemical processes
- B. Biochemical processes
- C. Physical process
- D. mechanical and bio-chemical process ✓ **Correct answer**

A. Wrong: respiration is more than chemical processes alone — breathing itself is mechanical

B. Wrong: respiration is more than biochemical processes alone — breathing itself is mechanical

C. Wrong: respiration is not only a physical process

D. Correct: respiration involves both the mechanical process of breathing and the bio-chemical process of cellular respiration — the answer the printed official key gives

Question 60 General Science

General Science. In human and higher animals the exchange of gases is carried out by:

- A. respiratory system ✓ **Correct answer**
- B. excreting system
- C. digestive system
- D. Circulatory system

A. Correct: the exchange of gases is carried out by the respiratory system

B. Wrong: the excreting system removes wastes, it does not exchange gases

C. Wrong: the digestive system digests food, it does not exchange gases

D. Wrong: the circulatory system carries gases, but the exchange itself is by the respiratory system

61 Computer

Computer. The extension of word 2010 document is _____.

- A. doc
- B. docx ✓ **Correct answer**
- C. docs
- D. docd

A. Wrong: doc was the extension of older Word versions, not Word 2010

B. Correct: Word 2010 documents use the docx extension

C. Wrong: docs is not a Word extension

D. Wrong: docd is not a Word extension

Question 62 Computer

Computer. The short key to print a document is _____.

- A. Ctr+P ✓ **Correct answer**
- B. Alt+P
- C. Ctr+O
- D. Ctr+R

A. Correct: Ctrl+P is the print shortcut (the scan prints "Ctr+P")

B. Wrong: Alt+P is not the print shortcut

C. Wrong: Ctrl+O opens a document, it does not print

D. Wrong: Ctrl+R is not the print shortcut

Question 63 Computer

Computer. In MS Excel, if B3 ids the address of a cell then B is its: (As printed: "ids" for

- A. column number ✓ **Correct answer**
- B. cell address
- C. row number
- D. table address

A. Correct: in the address B3, B is the column and 3 is the row

B. Wrong: B alone is not the cell address — B3 is

C. Wrong: 3 is the row number, not B

D. Wrong: B is not the table address

Question 64 Computer

Computer. In MS Excel, VLOOKUP is.

- A. Mathematical function
- B. Logical function
- C. financial function
- D. look up and reference function ✓ **Correct answer**

A. Wrong: VLOOKUP is not a mathematical function

B. Wrong: VLOOKUP is not a logical function

C. Wrong: VLOOKUP is not a financial function

D. Correct: VLOOKUP is a lookup and reference function

Question 65 Computer

Computer. In MS PowerPoint we press _____ key to start slide show from current slide.

t+F5 ✓ **Correct answer**

- B. Ctr+F5
- C. F5
- D. Alt+F5

A. Correct: Shift+F5 starts the slide show from the current slide

B. Wrong: Ctrl+F5 does not start the slide show from the current slide

C. Wrong: F5 starts the slide show from the beginning, not the current slide

D. Wrong: Alt+F5 does not start the slide show from the current slide

Question 66 Computer

Computer. Computer's performance is influenced by

- A. Speed of System Clock
- B. Bus width
- C. Memory access time
- D. All of Above ✓ **Correct answer**

A. Wrong: the speed of the system clock does influence performance

B. Wrong: bus width does influence performance

C. Wrong: memory access time does influence performance

D. Correct: all three influence performance, so all of the above

Question 67 Computer

Computer. File management is responsibility of:

- A. RAM
- B. Task manager
- C. Operating system ✓ **Correct answer**

A. Wrong: RAM is memory, it does not manage files

B. Wrong: the task manager manages running tasks, not files

C. Correct: file management is the responsibility of the operating system

D. Wrong: the BIOS starts the computer; it does not manage files

Question 68 Computer

Computer. An operating system is a:

- A. Utility program
- B. System Software ✓ **Correct answer**
- C. Application Software
- D. Firmware

A. Wrong: an operating system is not a utility program

B. Correct: an operating system is a system software

C. Wrong: an operating system is not an application software

D. Wrong: an operating system is not firmware

Question 69 Computer

Computer. Web page can be created using

- A. Web browser
- B. HTTP
- C. Web server
- D. HTML ✓ **Correct answer**

A. Wrong: a web browser displays pages, it does not create them

~~TP is a protocol, not a page-creation language~~

C. Wrong: a web server serves pages, it does not create them

D. Correct: a web page is created using HTML

Question 70 Computer

Computer. The speed of CPU is measured in:

- A. Mbytes
- B. mbps
- C. MHz ✓ **Correct answer**
- D. Micro-secs

A. Wrong: Mbytes measure memory size, not CPU speed

B. Wrong: mbps measures data transfer rate, not CPU speed

C. Correct: CPU speed is measured in MHz (megahertz)

D. Wrong: micro-seconds measure time, not CPU speed

Question 71 General Knowledge

General Knowledge. Third source of Islamic Fiqah is _____

- A. Qayas
- B. Hadith;
- C. Ijma ✓ **Correct answer**
- D. Ijtihad

A. Wrong: Qiyas is the fourth source of Fiqh, not the third (the scan prints "Qayas")

B. Wrong: Hadith (Sunnah) is the second source, not the third

C. Correct: the sources of Fiqh in order are Quran, Hadith, Ijma, Qiyas — the third is Ijma

ijtihad is not counted among the four sources in this order

Question 72 General Knowledge

General Knowledge. Magna Carta is a charter of

- A. Democracy
- B. Child rights
- C. Human rights ✓ **Correct answer**
- D. Women rights

A. Wrong: Magna Carta is not specifically a charter of democracy

B. Wrong: Magna Carta is not a charter of child rights

C. Correct: Magna Carta (1215) is a charter of liberties — of human rights

D. Wrong: Magna Carta is not a charter of women rights

Question 73 General Knowledge

General Knowledge. World Trade Organization (WTO) was established in _____

- A. 1980
- B. 1990
- C. 1995 ✓ **Correct answer**
- D. 1981

A. Wrong: the WTO was not established in 1980

B. Wrong: the WTO was not established in 1990

C. Correct: the World Trade Organization was established in 1995

D. Wrong: the WTO was not established in 1981

74 General Knowledge

General Knowledge. ECG is used for the diagnosis of the ailment of the _____

- A. Lungs
- B. Heart ✓ **Correct answer**
- C. Brain
- D. Kidneys

A. Wrong: an ECG does not diagnose lung ailments

B. Correct: an ECG (electrocardiogram) diagnoses ailments of the heart

C. Wrong: an ECG does not diagnose brain ailments

D. Wrong: an ECG does not diagnose kidney ailments

Question 75 General Knowledge

General Knowledge. World peace day is celebrated on _____ every year.

- A. 21 September ✓ **Correct answer**
- B. 21 October
- C. 23 March
- D. 14 August

A. Correct: the International Day of Peace (World Peace Day) is 21 September every year

B. Wrong: 21 October is not World Peace Day

C. Wrong: 23 March is Pakistan Day, not World Peace Day

D. Wrong: 14 August is Pakistan's Independence Day, not World Peace Day

Question 76 General Knowledge

General Knowledge. Qantas is the airline of _____ country.

- B. Russia
- C. Australia ✓ **Correct answer**
- D. Holland

A. Wrong: Qantas is not Britain's airline

B. Wrong: Qantas is not Russia's airline

C. Correct: Qantas is the airline of Australia

D. Wrong: Qantas is not Holland's airline

Question 77 General Knowledge

General Knowledge. Who becomes Acting President in the absence of President of Pakistan?

- A. Prime Minister
- B. Speaker of the National Assembly
- C. Chairman of the Senate ✓ **Correct answer**
- D. Senior Minister in the Federal Cabinet

A. Wrong: the Prime Minister does not become Acting President

B. Wrong: the Speaker of the National Assembly does not become Acting President

C. Correct: in the absence of the President of Pakistan, the Chairman of the Senate becomes Acting President

D. Wrong: a senior minister does not become Acting President

Question 78 General Knowledge

General Knowledge. Who presented Lahore Resolution on 23rd March, 1940 at Minto park?

ma Iqbal

- B. Sir Muhammad Zafarullah Khan
- C. Liaquat Ali Khan
- D. Mulvi A.K. Fazlul-Huq ✓ **Correct answer**

A. Wrong: Allama Iqbal did not present the Lahore Resolution

B. Wrong: Sir Muhammad Zafarullah Khan did not present the Lahore Resolution

C. Wrong: Liaquat Ali Khan seconded the Resolution; he did not present it

D. Correct: Maulvi A.K. Fazlul-Huq presented (moved) the Lahore Resolution on 23 March 1940 at Minto Park

Question 79 General Knowledge

General Knowledge. Namaz-e-Kasoof is offered at the time of _____

- A. Lunar eclipse
- B. Heavy Rain
- C. Solar eclipse ✓ **Correct answer**
- D. Earthquake

A. Wrong: the prayer at a lunar eclipse is Namaz-e-Khusoof, not Kasoof

B. Wrong: Namaz-e-Kasoof is not offered for heavy rain

C. Correct: Namaz-e-Kasoof is the prayer offered at a solar eclipse

D. Wrong: Namaz-e-Kasoof is not offered at an earthquake

Question 80 General Knowledge

General Knowledge. _____ Muslims fought in the battle of Ghazwa-e-Badr.

- A. 313 ✓ **Correct answer**
- B. 315

- D. 314

A. Correct: 313 Muslims fought in the Battle of Badr

B. Wrong: 315 is not the number of Muslims at Badr

C. Wrong: 316 is not the number of Muslims at Badr

D. Wrong: 314 is not the number of Muslims at Badr

Question 81 Pedagogy

Pedagogy. The level of school achievement can best be judged through

- A. Head teacher
- B. Well-furnished building
- C. Students Learning Achievement ✓ **Correct answer**
- D. Teachers students relations

A. Wrong: a head teacher alone does not show the level of school achievement

B. Wrong: a well-furnished building does not show the level of school achievement

C. Correct: the level of school achievement is best judged through students' learning achievement

D. Wrong: teacher-student relations do not show the level of school achievement

Question 82 Pedagogy

Pedagogy. Which institute/office is responsible for teacher education policy development in the province of Sindh?

- A. Reform support Unit
- B. PITE Sindh
- C. Sindh Teacher Education Development Authority (STEDA) ✓ **Correct answer**

A. Wrong: the Reform Support Unit is not responsible for teacher education policy development in Sindh

B. Wrong: PITE Sindh trains teachers; it does not develop teacher education policy

C. Correct: the Sindh Teacher Education Development Authority (STEDA) is responsible for teacher education policy development in Sindh

D. Wrong: the Sindh Textbook Board produces textbooks; it does not develop teacher education policy

Question 83 Pedagogy

Pedagogy. S.N.E is an abbreviation of:

- A. Schedule of New Experience
- B. Schedule of New Entry
- C. Schedule of New Expenditure ✓ **Correct answer**
- D. System of New Entry

A. Wrong: S.N.E is not Schedule of New Experience

B. Wrong: S.N.E is not Schedule of New Entry

C. Correct: S.N.E is Schedule of New Expenditure

D. Wrong: S.N.E is not System of New Entry

Question 84 Pedagogy

Pedagogy. Under National Education Policy 1972, free education was recommended up to class?

- A. 5
- B. 12

✓ Correct answer

- D. 16

A. Wrong: free education was not recommended only up to class 5

B. Wrong: free education was not recommended up to class 12

C. Correct: under the National Education Policy 1972, free education was recommended up to class 10

D. Wrong: free education was not recommended up to class 16

Question 85 Pedagogy

Pedagogy. Curriculum development refers to the total process of curriculum?

- A. Designing
- B. Designing and Implementing
- C. Designing and Evaluating
- D. Designing, Implementing and Evaluating ✓ **Correct answer**

A. Wrong: curriculum development is more than designing alone

B. Wrong: curriculum development is more than designing and implementing

C. Wrong: curriculum development is more than designing and evaluating

D. Correct: curriculum development is the total process of designing, implementing and evaluating

Question 86 Pedagogy

Pedagogy. In Millennium Development Goals (MDGs) the Goal # 2 is related to

- A. Child Mortality
- B. Poverty
- C. Universal Primary Education ✓ **Correct answer**

ironmental sustainability

A. Wrong: child mortality is MDG 4, not Goal 2

B. Wrong: poverty is MDG 1, not Goal 2

C. Correct: MDG Goal 2 is to achieve universal primary education

D. Wrong: environmental sustainability is MDG 7, not Goal 2

Question 87 Pedagogy

Pedagogy. The simplest skill in cognitive domain of Bloom's taxonomy is

- A. remembering ✓ **Correct answer**
- B. understanding
- C. evaluating
- D. synthesizing

A. Correct: remembering is the lowest, simplest skill in Bloom's cognitive domain

B. Wrong: understanding is above remembering

C. Wrong: evaluating is a higher skill, not the simplest

D. Wrong: synthesizing is a higher skill, not the simplest

Question 88 Pedagogy

Pedagogy. The highest level of cognitive domain is:

- A. Application
- B. Knowledge
- C. Synthesis
- D. Evaluation ✓ **Correct answer**

A. Wrong: application is a middle level, not the highest

owledge is the lowest level, not the highest

C. Wrong: synthesis is second-highest in the original taxonomy

D. Correct: in the original Bloom's taxonomy the highest level of the cognitive domain is evaluation

Question 89 Pedagogy

Pedagogy. Which article of the Constitution of Pakistan obligates the state to provide free and compulsory education to children of the age group 5 to 16 years?

- A. 52-B
- B. 25-A ✓ **Correct answer**
- C. 27-C
- D. 29-B

A. Wrong: Article 52-B does not cover free and compulsory education

B. Correct: Article 25-A obligates the state to provide free and compulsory education to children aged 5 to 16 years

C. Wrong: Article 27-C does not cover free and compulsory education

D. Wrong: Article 29-B does not cover free and compulsory education

Question 90 Pedagogy

Pedagogy. The National Professional Standards for Teachers in Pakistan were developed to raise the quality of teachers, among 10 standards; the standard # 7 focus on:

- A. Assessment
- B. Effective Use of Information, Communication Technology ✓ **Correct answer**
- C. Learning Environment
- D. Subject matter knowledge

sessment is a different standard, not standard 7

B. Correct: standard 7 of the National Professional Standards for Teachers in Pakistan is the effective use of information and communication technology

C. Wrong: learning environment is a different standard, not standard 7

D. Wrong: subject matter knowledge is standard 1, not standard 7

Question 91 Pedagogy

Pedagogy. The word "Curriculum" derived from:

- A. Chinese Language
- B. English Language
- C. Greek Language
- D. Latin Language ✓ **Correct answer**

A. Wrong: curriculum is not derived from Chinese

B. Wrong: curriculum is not derived from English

C. Wrong: curriculum is not derived from Greek

D. Correct: the word curriculum is derived from Latin (currere — to run a course)

Question 92 Pedagogy

Pedagogy. Ontology related to the nature of:

- A. Reality ✓ **Correct answer**
- B. Value
- C. Knowledge
- D. Culture & Society

A. Correct: ontology is the branch of philosophy concerned with the nature of reality

lue is the concern of axiology, not ontology

C. Wrong: knowledge is the concern of epistemology, not ontology

D. Wrong: culture and society are not what ontology studies

Question 93 Pedagogy

Pedagogy. The literal meaning of course is"

- A. Bunch of books
- B. Light
- C. Path ✓ **Correct answer**
- D. Height

A. Wrong: a course is not literally a bunch of books

B. Wrong: light is not the literal meaning of course

C. Correct: the literal meaning of course (from Latin cursus) is a path or a running

D. Wrong: height is not the literal meaning of course

Question 94 Pedagogy

Pedagogy. Text book boards were established in the provinces of Pakistan in:

- A. 1960
- B. 1964
- C. 1962 ✓ **Correct answer**
- D. 1966

A. Wrong: the textbook boards were not established in 1960

B. Wrong: the textbook boards were not established in 1964

C. Correct: the textbook boards were established in the provinces of Pakistan in 1962

e textbook boards were not established in 1966

Question 95 Pedagogy

Pedagogy. Teacher explores the level of understanding, interest & attention of a child through:

- A. Assessment ✓ **Correct answer**
- B. Evaluation
- C. Examination
- D. Measurement

A. Correct: exploring a child's understanding, interest and attention is assessment

B. Wrong: evaluation is judging worth, not exploring understanding

C. Wrong: examination is a formal test, not exploring understanding

D. Wrong: measurement is assigning numbers, not exploring understanding

Question 96 Pedagogy

Pedagogy. An assessment use to identify difficulties in the learning process is called

- A. initial assessment
- B. diagnostic assessment ✓ **Correct answer**
- C. formative assessment
- D. summative assessment

A. Wrong: an initial assessment comes at the start; it does not identify learning difficulties

B. Correct: an assessment used to identify difficulties in the learning process is diagnostic assessment

C. Wrong: formative assessment monitors progress during learning; it is not the difficulty-identifying assessment

ınmative assessment comes at the end; it does not identify learning difficulties

Question 97 Pedagogy

Pedagogy. An assessment use to determine a person's ability in a particular field of studies is called

- A. aptitude test ✓ **Correct answer**
- B. diagnostic test
- C. evaluation
- D. measurement

A. Correct: a test that determines a person's ability in a particular field is an aptitude test

B. Wrong: a diagnostic test identifies difficulties, not ability in a field

C. Wrong: evaluation is judging worth, not a test of ability in a field

D. Wrong: measurement is assigning numbers, not a test of ability in a field

Question 98 Pedagogy

Pedagogy. It is the process of collecting, synthesizing, and interpreting information to aid in decision-making.

- A. Assessment ✓ **Correct answer**
- B. Testing
- C. Examination
- D. Evaluation

A. Correct: collecting, synthesizing and interpreting information to aid decision-making is assessment

B. Wrong: testing is administering a test, not this whole process

examination is a formal test, not this whole process

D. Wrong: evaluation is making judgments on the information, not collecting it

Question 99 Pedagogy

Pedagogy. The outline of the contents is?

- A. Course
- B. Programe
- C. Syllabus ✓ **Correct answer**
- D. All of above

A. Wrong: a course is the whole programme of study, not the outline of contents

B. Wrong: a programme is the whole plan, not the outline of contents

C. Correct: the outline of the contents is the syllabus

D. Wrong: only the syllabus is the outline of the contents

Question 100 Pedagogy

Pedagogy. Summative evaluation takes place?

- A. In the beginning
- B. In the middle
- C. At the end ✓ **Correct answer**
- D. None

A. Wrong: summative evaluation does not take place in the beginning

B. Wrong: summative evaluation does not take place in the middle

C. Correct: summative evaluation takes place at the end

D. Wrong: summative evaluation does take place — at the end

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