Screening Test for Graduation Category (BPS 5–15), Paper–V — 2023 · Solved Past Paper

Body: Sindh Testing Service (STS) · **Post:** Screening Test for Graduation Category (BPS 5–15), Paper–V · **Year:** 2023 · **Questions:** 100 in the original paper — **99 solved and verified**, 1 excluded as defective (Q4) · **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 2023 sitting.

Source note: testtiari.com post 'IBA Graduation category 21/01/2023 test' (accessed 10 Nov 2026): 5 scanned booklet pages (Q1–Q100) + the official SIBA Answer Key sheet photo (Paper–V, Saturday, January 21, 2023) + a Google Drive PDF of the same 5 pages ('IBA Paper 21 January 2023.pdf', Drive file 1X4Aty5GzrKwEwxYpOYfWv4jRV_lX47fi). Cross-read at higher resolution in the Shan Ali Junejo 'STS Complete Graduation Category 5 to 15 Grade solved' compilation PDF (Google Drive file 1bnC6T6PD0YGVzf63cr2Su8-PIPO7gl08, Paper–V on pp. 29–33). Every printed key was verified independently (own knowledge + worked derivations for the mathematics items) under the owner's 8 Nov 2026 standard. 1 PICK-ONE filed openly with evidence (Q92) and 1 DEFECTIVE-excluded (Q4 — the keyed answer B, 'are antonyms', is wrong and both C and D are true of the pair), decided by the assistant under the owner's 8 Nov 2026 delegation.

Question 1 English

Passage for reading comprehension. Read the following passage and answer the questions set below it: Worldly greatness, glamour, pomp and show and power and self

-lived and subject to decay. Physical beauty is but skin deep, worldly power is mutable and transferable; wealth is a temporary asset and money changes hands, goes person to person, and both are as volatile and uncertain as the summer rain. Some people move from their old dwelling places by virtue of changing living conditions and in search of change and improved means of living. Many stick to their old dwelling places and styles of life. However, there are people who are greatly affected by the changing social conditions and move to other places in search of better livelihood. Things keep on changing and some of them leave indelible imprints on the minds of the people. Despite constant or recurrent changes, it is a noble character that maintains its integrity and steadfastness for quite some time. The men of upright character enjoy good reputation and real peace of mind. They are held high. During their lifetime they deserve tribute. When they are no more, they deserve homage. Their adherents and fans write eulogies in recognition of their good deeds and brilliant achievements. In this way, they become immortal souls, paragons of noble character and living examples of professions and actions. They are the people who enjoy a short sojourn on the earth and eternal life in the Hereafter. Answer the following first ten (01-10) questions from the above passage you have just read: 1. "Beauty is but skin deep" is _____.

- A. a phrase
- B. an idiom
- C. a proverb ✓ **Correct answer**
- D. a metaphor

A. Wrong: a phrase is only a group of words, but this is a complete traditional saying

B. Wrong: an idiom has a figurative meaning different from its words; this saying states a general truth, which makes it a proverb

C. Correct: 'Beauty is but skin deep' is a well-known traditional proverb about beauty being only on the surface

D. Wrong: a metaphor compares one thing to another without 'like' or 'as'; this is a saying, not a comparison

2 English

(From the passage printed under Q1.) 2. Words "The summer rain" are used as a _____.

- A. metaphor
- B. comparison ✓ **Correct answer**
- C. phrase
- D. clause

A. Wrong: a metaphor states one thing IS another; here 'as ... as' makes a direct comparison

B. Correct: 'as volatile and uncertain as the summer rain' compares wealth to summer rain with 'as', a comparison (simile)

C. Wrong: 'the summer rain' is a phrase, but the question asks how the words are USED, as a comparison

D. Wrong: a clause has a subject and a verb; 'the summer rain' has neither

Question 3 English

(From the passage printed under Q1.) 3. Underlined word "indelible" means _____.

- A. permanent ✓ **Correct answer**
- B. matchless
- C. irreplaceable
- D. crucial

A. Correct: indelible means that cannot be erased or removed, so lasting or permanent

B. Wrong: matchless means without equal, not indelible

C. Wrong: irreplaceable means cannot be replaced, which is close but not the meaning of indelible

D. Wrong: crucial means very important, not indelible

4 English

(From the passage printed under Q1.) 4. Words "professions and actions" _____.

- A. are synonyms of each other in meanings
- B. are antonyms of each other in meanings
- C. they make a phrase
- D. they make a group of words

No answer is given for this question, and none is taught. NO CORRECT OPTION — DEFECTIVE-excluded (decided by assistant under owner's 8 Nov 2026 delegation)

A. Wrong: professions (occupations) and actions (deeds) do not mean the same thing

B. Wrong: they are not opposites either; the printed key files B, but professions and actions are not antonyms

C. True of the pair: 'professions and actions' is a coordinated noun phrase, but it is not the unique answer

D. True of the pair: any words together make a group of words, so this also fits; with both C and D true and the keyed B false, the item has no unique correct answer

Question 5 English

(From the passage printed under Q1.) 5. The underlined word "volatile" means _____.

- A. permanent
- B. oblivious
- C. unstable
- D. easily changeable ✓ **Correct answer**

A. Wrong: permanent is the opposite of volatile

B. Wrong: oblivious means unaware, not volatile

C. Wrong: unstable is a near-synonym, but the paper's contextual gloss is 'easily

the precise meaning of volatile here (wealth changing hands)

D. Correct: volatile means liable to change rapidly and unpredictably, easily changeable, as wealth is in the passage

Question 6 English

(From the passage printed under Q1.) 6. The underlined phrase "by virtue of" means _____.

- A. by means of or because of something ✓ **Correct answer**
- B. in line with
- C. in case of
- D. in view of prima facie

A. Correct: 'by virtue of' means by means of, or because of, something

B. Wrong: 'in line with' means in agreement with, not 'by virtue of'

C. Wrong: 'in case of' means if something happens, not 'by virtue of'

D. Wrong: 'in view of prima facie' is not a meaning of 'by virtue of'

Question 7 English

(From the passage printed under Q1.) 7. The underlined phrase "for quite some time" means _____.

- A. from times immemorial
- B. for a long time ✓ **Correct answer**
- C. in course of
- D. from time to time

A. Wrong: 'from times immemorial' means from ancient times beyond memory, not 'for quite some time'

or quite some time' means for a fairly long time

C. Wrong: 'in course of' means during, not 'for quite some time'

D. Wrong: 'from time to time' means occasionally, not 'for quite some time'

Question 8 English

(From the passage printed under Q1.) 8. The most important word used in the second paragraph is _____.

- A. character ✓ **Correct answer**
- B. achievements
- C. Hereafter
- D. souls

A. Correct: the second paragraph is about noble character, repeated through it, so 'character' is its most important word

B. Wrong: achievements are mentioned once, they are not the paragraph's key word

C. Wrong: Hereafter appears only in the last line, not as the key word

D. Wrong: souls appears once, not as the paragraph's key word

Question 9 English

(From the passage printed under Q1.) 9. The underlined word "a short sojourn" means _____.

- A. a transit
- B. a break journey
- C. a temporary stay ✓ **Correct answer**
- D. a short overstay

A. Wrong: a transit is a passage through a place, not a sojourn

break journey is an interruption of a journey, not a sojourn

C. Correct: a sojourn is a temporary stay in a place

D. Wrong: an overstay is staying longer than allowed, not a sojourn

Question 10 English

(From the passage printed under Q1.) 10. The passage has been composed in _____.

- A. Present Perfect Tense
- B. Past Perfect Tense
- C. Past Indefinite Tense
- D. Present Indefinite Tense ✓ **Correct answer**

A. Wrong: present perfect uses have/has + past participle, which the passage does not use

B. Wrong: past perfect uses had + past participle, which the passage does not use

C. Wrong: past indefinite uses past-tense verbs; the passage uses present-tense verbs

D. Correct: the passage is written in simple present tense (are, changes, move, stick, keep, enjoy, deserve)

Question 11 English

11. Functional Language is used for making plans.

- A. practical and useful
- B. having a special purpose ✓ **Correct answer**
- C. utilitarian
- D. possible and important

A. Wrong: 'practical and useful' is a general sense of functional, but the paper's contextual gloss for functional language is 'having a special purpose'

B. Correct: functional means having a special purpose or function; functional language is

ed for a particular purpose

C. Wrong: utilitarian means designed for usefulness rather than beauty, not the sense here

D. Wrong: 'possible and important' is not a meaning of functional

Note: Note: The underlined word is "Functional" (Synonyms section).

Question 12 English

12. I always keep my mobile phone on the top shelf.

- A. hold up
- B. remain in a position
- C. put or place ✓ **Correct answer**
- D. to be safe and secure

A. Wrong: 'hold up' means to support or delay, not 'keep' here

B. Wrong: 'remain in a position' is not what 'keep' means in this sentence

C. Correct: to keep something on a shelf is to put or place it there

D. Wrong: 'to be safe and secure' is a reason for keeping, not the meaning of 'keep'

Note: Note: The underlined word is "keep" (Synonyms section).

Question 13 English

13. The mouse is under the log in the corner.

- A. timber
- B. plank
- C. wood used for the fire
- D. a thick piece of wood that is cut from a tree ✓ **Correct answer**

nber is wood prepared for building, not the meaning of 'log' here

B. Wrong: a plank is a flat board, not a log

C. Wrong: 'wood used for the fire' is firewood, not the full meaning of a log

D. Correct: a log is a thick piece of wood cut from a tree

Note: Note: The underlined word is "log" (Synonyms section).

Question 14 English

14. Many minerals were found from under the surface of the earth.

- A. extracted or obtained ✓ **Correct answer**
- B. located
- C. traced
- D. discovered

A. Correct: in context (minerals taken from under the surface) 'found' means extracted or obtained

B. Wrong: 'located' means found the position of, not extracted

C. Wrong: 'traced' means followed a trail, not 'found' here

D. Wrong: 'discovered' is a general synonym of 'found', but the paper's note says meanings are contextual, and the context here is extraction from underground

Note: Note: The underlined word is "found" (Synonyms section). The booklet's note says meanings of underlined words are based on their contextual meanings in the given sentences.

Question 15 English

15. Exchange your notebooks and read each other's work.

- B. to give something to somebody and at the same time receive the same type of thing from them ✓ **Correct answer**
- C. to give or return something that you have and get something different or better instead
- D. to give something and get nothing in return

A. Wrong: 'give and take' is a short gloss, but the full definition of exchange is B

B. Correct: to exchange is to give something and at the same time receive the same type of thing in return

C. Wrong: getting something different or better is a trade, not the definition of exchange

D. Wrong: giving and getting nothing in return is giving away, the opposite of exchange

Note: Note: The underlined word is "Exchange" (Synonyms section).

Question 16 English

16. Helen Keller was a woman of great learning.

- A. illiteracy
- B. ignorance ✓ **Correct answer**
- C. secrecy
- D. darkness

A. Wrong: illiteracy is the opposite of literacy, not of learning

B. Correct: ignorance (lack of knowledge) is the opposite of learning

C. Wrong: secrecy means keeping things hidden, not the opposite of learning

D. Wrong: darkness is the opposite of light, not of learning

Note: Note: The underlined word is "learning" (Antonyms section).

17 English

17. Most motorcyclists are very careful, and drive slow.

- A. fast ✓ **Correct answer**
- B. fastly
- C. quickly
- D. speedy

A. Correct: fast is the opposite of slow

B. Wrong: 'fastly' is not a correct English word

C. Wrong: quickly is a synonym of fast, not the opposite of slow

D. Wrong: speedy is a synonym of fast, not the opposite of slow

Note: Note: The underlined word is "slow" (Antonyms section).

Question 18 English

18. We can prevent deaths and injuries on the road.

- A. make
- B. happen
- C. cause ✓ **Correct answer**
- D. place

A. Wrong: 'make' does not express the opposite of prevent

B. Wrong: 'happen' is not the opposite of prevent

C. Correct: to prevent is to stop something happening; to cause is to make it happen, the opposite

D. Wrong: 'place' has no relation to prevent

The underlined word is "prevent" (Antonyms section).

Question 19 English

19. Besides this code, other safety rules can also be taught.

- A. separately
- B. except for ✓ **Correct answer**
- C. omitting
- D. neglecting

A. Wrong: 'separately' means apart, not the opposite of 'besides'

B. Correct: 'besides' means in addition to, and 'except for' means excluding, its opposite in the inclusion sense

C. Wrong: 'omitting' means leaving out, a verb form, not the opposite of 'besides'

D. Wrong: 'neglecting' means failing to do, not the opposite of 'besides'

Note: Note: The underlined word is "Besides" (Antonyms section).

Question 20 English

20. Stunts are actions that are often dangerous.

- A. extraordinary
- B. wonderful
- C. safe and easy ✓ **Correct answer**
- D. funny and enjoyable

A. Wrong: extraordinary means unusual, not the opposite of dangerous

B. Wrong: wonderful means very good, not the opposite of dangerous

C. Correct: 'safe and easy' is the opposite of dangerous actions

unny and enjoyable" describes amusement, not the opposite of dangerous

Note: Note: The underlined word is "dangerous" (Antonyms section).

Question 21 English

21. That's real a wonderful question.

- A. That's
- B. real ✓ **Correct answer**
- C. a wonderful
- D. question

A. Wrong: 'That's' is correct (that is)

B. Correct: 'real' is an adjective; the adverb 'really' is needed before the adjective 'wonderful'

C. Wrong: 'a wonderful' is correct

D. Wrong: 'question' is correct

Note: Note: Error detection: the underlined segments are read from the letter positions (A "That's", B "real", C "a wonderful", D "question").

Question 22 English

22. Nurses look after the patients with love and carefully.

- A. look after
- B. with love
- C. and
- D. carefully ✓ **Correct answer**

A. Wrong: 'look after' is the correct phrasal verb

B. Wrong: 'with love' is correct

nd correctly joins the two parts

D. Correct: 'carefully' is an adverb, but it must parallel the noun phrase 'with love', so 'care' (with love and care) is needed

Note: Note: Error detection: the underlined segments are read from the letter positions (A "look after", B "with love", C "and", D "carefully").

Question 23 English

23. Myths are stories that many people misbelieve.

- A. stories
- B. that
- C. many
- D. misbelieve ✓ **Correct answer**

A. Wrong: 'stories' is correct, myths are stories

B. Wrong: 'that' correctly introduces the clause

C. Wrong: 'many' is correct

D. Correct: 'misbelieve' is wrong here; myths are stories that many people believe (wrongly), the verb should be 'believe'

Note: Note: Error detection: the underlined segments are read from the letter positions (A "stories", B "that", C "many", D "misbelieve").

Question 24 English

24. Animal science involves knowledge of farm machines and equipments.

- A. Animal science
- B. involves
- C. farm machines

ipments ✓ **Correct answer**

A. Wrong: 'Animal science' is correct

B. Wrong: 'involves' is correct

C. Wrong: 'farm machines' is correct

D. Correct: 'equipment' is an uncountable noun and has no plural 'equipments'

Note: Note: Error detection: the underlined segments are read from the letter positions (A "Animal science", B "involves", C "farm machines", D "equipments").

Question 25 English

25. They said that they are going to the cinema.

- A. said
- B. that
- C. are going ✓ **Correct answer**
- D. the cinema

A. Wrong: 'said' is the correct past-tense reporting verb

B. Wrong: 'that' correctly introduces the reported clause

C. Correct: in reported speech after a past-tense verb, 'are going' must become 'were going'

D. Wrong: 'the cinema' is correct

Note: Note: Error detection: the underlined segments are read from the letter positions (A "said", B "that", C "are going", D "the cinema").

Question 26 English

26. I work _____ a factory.

- B. in ✓ **Correct answer**
- C. for
- D. with

A. Wrong: 'work at a factory' names the employer or place in general; the paper's keyed collocation for working inside the factory building is 'in'

B. Correct: 'work in a factory' is the standard preposition for the enclosed place of work

C. Wrong: 'work for a factory' means being employed by it, not the place of work

D. Wrong: 'work with a factory' means in cooperation with it, not the place of work

Note: Note: Preposition section.

Question 27 English

27. I have to finish my report _____ tonight.

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

A. Wrong: 'in tonight' is not correct

B. Wrong: 'at tonight' is not correct

C. Wrong: 'for tonight' would mean the report is intended for tonight, not the deadline

D. Correct: 'by tonight' gives the deadline, finish the report no later than tonight

Note: Note: Preposition section.

28 English

28. I can meet you today _____ noon.

- A. at ✓ **Correct answer**
- B. in
- C. during
- D. by

A. Correct: 'at noon' is the preposition for a point in time

B. Wrong: 'in noon' is not correct

C. Wrong: 'during noon' is not correct for a point in time

D. Wrong: 'by noon' would mean a deadline (no later than noon), not the meeting time

Note: Note: Preposition section.

Question 29 English

29. He had to go and invite people _____ the wedding.

- A. to
- B. on
- C. for ✓ **Correct answer**
- D. at

A. Wrong: 'invite to the wedding' is heard, but the paper's keyed collocation for inviting people for the occasion is 'for'

B. Wrong: 'invite on the wedding' is not correct

C. Correct: 'invite people for the wedding' is the paper's keyed collocation (inviting for the occasion)

D. Wrong: 'invite at the wedding' is not correct

Preposition section.

Question 30 English

30. Last night my mother told me that we had been invited _____ the wedding.

- A. for
- B. to ✓ **Correct answer**
- C. in
- D. about

A. Wrong: 'invited for the wedding' is heard, but the standard collocation is 'invited to'

B. Correct: 'invited to the wedding' is the standard collocation (invited to attend)

C. Wrong: 'invited in the wedding' is not correct

D. Wrong: 'invited about the wedding' is not correct

Note: Note: Preposition section.

Question 31 English

31. We will be in college _____.

- A. during year
- B. before year
- C. next year ✓ **Correct answer**
- D. in year

A. Wrong: 'during year' is not a complete time expression

B. Wrong: 'before year' is not a complete time expression

C. Correct: 'next year' is the correct time expression, we will be in college next year

D. Wrong: 'in year' is not a complete time expression

Question 32 English

32. His mother told him _____.

- A. be afraid of Allah
- B. to be feared of Allah
- C. to get afraid of Allah
- D. to fear Allah ✓ **Correct answer**

A. Wrong: 'told him be afraid' is missing 'to'

B. Wrong: 'to be feared of Allah' is not correct English

C. Wrong: 'to get afraid of Allah' is not the correct form

D. Correct: 'told him to fear Allah' is the correct infinitive construction

Note: Note: Sentence Structure section.

Question 33 English

33. _____ of Pakistan have received a state funeral.

- A. Hardly many renowned citizens
- B. The few common citizens
- C. The few main citizens
- D. Not any eminent citizens ✓ **Correct answer**

A. Wrong: 'hardly many' is not standard English (hardly goes with 'any', not 'many')

B. Wrong: 'the few common citizens' does not fit the sense of the sentence

C. Wrong: 'the few main citizens' does not fit the sense of the sentence

D. Correct: 'Not any eminent citizens of Pakistan have received a state funeral' is the

Note: Note: Sentence Structure section. Stem as printed.

Question 34 English

34. The policeman will catch the thief, _____?

- A. won't he ✓ **Correct answer**
- B. will he not
- C. can't he
- D. will he

A. Correct: the question tag for a positive statement with 'will' is the contracted negative 'won't he'

B. Wrong: 'will he not' is the uncontracted tag, not the form used in the paper's keyed answer

C. Wrong: 'can't he' uses the wrong auxiliary (can, not will)

D. Wrong: 'will he' is a positive tag, but a positive statement needs a negative tag

Note: Note: Sentence Structure section.

Question 35 English

35. I feel tired. _____

- A. So am I
- B. So do I ✓ **Correct answer**
- C. I so do
- D. I so feel

A. Wrong: 'So am I' agrees with 'I am tired', but the statement uses 'feel', so the agreement needs 'do'

o do I' is the correct agreement with 'I feel tired' (do for the verb feel)

C. Wrong: 'I so do' is not the correct word order

D. Wrong: 'I so feel' is not the correct agreement form

Note: Note: Sentence Structure section.

Question 36 English

Correct spelling.

- A. hamlit
- B. hulmet
- C. hemlit
- D. helmet ✓ **Correct answer**

A. Wrong: 'hamlit' is a misspelling of helmet

B. Wrong: 'hulmet' is a misspelling of helmet

C. Wrong: 'hemlit' is a misspelling of helmet

D. Correct: 'helmet' is the correct spelling

Note: Note: Correct spelling section; the bare stem is the section header, as in 37zq/37aad/37adz/37afa.

Question 37 English

Correct spelling.

- A. padestrains
- B. pedestrians ✓ **Correct answer**
- C. paedestrians
- D. pediatians

aedestrains' is a misspelling of pedestrians

B. Correct: 'pedestrians' is the correct spelling

C. Wrong: 'paedestrians' is a misspelling of pedestrians

D. Wrong: 'pediatians' is a misspelling of pedestrians

Note: Note: Correct spelling section; the bare stem is the section header, as in 37zq/37aad/37adz/37afa.

Question 38 English

Correct spelling.

- A. mechanical ✓ **Correct answer**
- B. mechanicle
- C. machanical
- D. machanicle

A. Correct: 'mechanical' is the correct spelling

B. Wrong: 'mechanicle' is a misspelling of mechanical

C. Wrong: 'machanical' is a misspelling of mechanical

D. Wrong: 'machanicle' is a misspelling of mechanical

Note: Note: Correct spelling section; the bare stem is the section header, as in 37zq/37aad/37adz/37afa.

Question 39 English

Correct spelling.

- A. neibhors
- B. nebhors

- D. neighbers

A. Wrong: 'neibhors' is a misspelling of neighbours

B. Wrong: 'nebhors' is a misspelling of neighbours

C. Correct: 'neighbours' is the correct spelling

D. Wrong: 'neighbers' is a misspelling of neighbours

Note: Note: Correct spelling section; the bare stem is the section header, as in 37zq/37aad/37adz/37afa.

Question 40 English

Correct spelling.

- A. imprative
- B. imperetive
- C. imparative
- D. imperative ✓ **Correct answer**

A. Wrong: 'imprative' is a misspelling of imperative

B. Wrong: 'imperetive' is a misspelling of imperative

C. Wrong: 'imparative' is a misspelling of imperative

D. Correct: 'imperative' is the correct spelling

Note: Note: Correct spelling section; the bare stem is the section header, as in 37zq/37aad/37adz/37afa.

Question 41 Mathematics

41. The value of the square root of 0.81 is ...

- B. 0.03
- C. 0.33
- D. 0.94

A. Correct: 0.9 × 0.9 = 0.81, so the square root of 0.81 is 0.9

B. Wrong: 0.03 × 0.03 = 0.0009, not 0.81

C. Wrong: 0.33 × 0.33 = 0.1089, not 0.81

D. Wrong: 0.94 × 0.94 = 0.8836, not 0.81

Question 42 Mathematics

42. The expression 'A is a subset of B' (printed as A subset B) means.....

- A. A is superset of B
- B. A is subset of B ✓ **Correct answer**
- C. A and B are disjoint sets
- D. A is power set of B

A. Wrong: A superset of B is written A superset B, the reverse symbol

B. Correct: the subset symbol means A is a subset of B, every element of A is in B

C. Wrong: disjoint sets have no common elements, which is a different relation

D. Wrong: the power set of B is the set of all subsets of B, not this expression

Note: Note: The booklet prints the subset symbol (A subset B); the stem spells it out here.

Question 43 Mathematics

43. The value of log base 3 of 81 is ...

- A. 1

Correct answer

- C. 6
- D. 9

A. Wrong: 3 to the power 1 is 3, not 81

B. Correct: 3 to the power 4 is 81, so log base 3 of 81 is 4

C. Wrong: 3 to the power 6 is 729, not 81

D. Wrong: 3 to the power 9 is 19683, not 81

Question 44 Mathematics

44. The value of the square root of 0.9 × the square root of 1.6 is ...

- A. 0.12
- B. 1.2 ✓ **Correct answer**
- C. 0.75
- D. 12

A. Wrong: 0.12 is 0.9 × 1.6 divided by 12, not the product of the roots

B. Correct: the square root of 0.9 × the square root of 1.6 equals the square root of 1.44, which is 1.2

C. Wrong: 0.75 does not follow from the product of the roots

D. Wrong: 12 is ten times the correct value

Question 45 Mathematics

45. The value of the square root of 4 57/196 is ...

- A. 2 1/14 ✓ **Correct answer**
- B. 2 3/15
- C. 2 5/16

A. Correct: 4 57/196 = 841/196, and the square root of 841 is 29 and of 196 is 14, so 29/14 = 2 1/14

B. Wrong: 2 3/15 = 33/15, whose square is 1089/225, not 841/196

C. Wrong: 2 5/16 = 37/16, whose square is 1369/256, not 841/196

D. Wrong: 2 9/17 = 43/17, whose square is 1849/289, not 841/196

Question 46 Mathematics

46. The value of (1 - sin theta)(1 + sin theta) is equal to...

- A. sin squared theta
- B. 2 sin cubed theta
- C. cos squared theta ✓ **Correct answer**
- D. tan squared theta

A. Wrong: (1 - sin theta)(1 + sin theta) = 1 - sin squared theta, not sin squared theta

B. Wrong: 2 sin cubed theta does not follow from the product

C. Correct: (1 - sin theta)(1 + sin theta) = 1 - sin squared theta = cos squared theta

D. Wrong: tan squared theta equals sin squared theta over cos squared theta, not this product

Note: Note: The booklet prints sin with the Greek letter theta and squared/cubed superscripts; the stem spells them out here.

Question 47 Mathematics

47. If 2^10x = 4^35 then x is equal to ...

- A. 7 ✓ **Correct answer**

- C. 3.5
- D. 8

A. Correct: 4^35 = (2^2)^35 = 2^70, so 10x = 70 and x = 7

B. Wrong: 0.7 would give 2^7, not 2^70

C. Wrong: 3.5 would give 2^35, not 2^70

D. Wrong: 8 would give 2^80, not 2^70

Question 48 Mathematics

48. If 3x = 6x - 15 then x + 8 =

- A. 10
- B. 12
- C. 13 ✓ **Correct answer**
- D. 15

A. Wrong: 10 would need x = 2, but 3 × 2 is not 6 × 2 - 15

B. Wrong: 12 would need x = 4, but 3 × 4 is not 6 × 4 - 15

C. Correct: 3x = 6x - 15 gives 15 = 3x, so x = 5 and x + 8 = 13

D. Wrong: 15 would need x = 7, but 3 × 7 is not 6 × 7 - 15

Question 49 Mathematics

49. The fraction 0.20% is equal to...

- A. 1/500 ✓ **Correct answer**
- B. 1/400
- C. 1/200
- D. 1/50

.20% = 0.20/100 = 0.002 = 1/500

B. Wrong: 1/400 = 0.0025 = 0.25%, not 0.20%

C. Wrong: 1/200 = 0.005 = 0.5%, not 0.20%

D. Wrong: 1/50 = 0.02 = 2%, not 0.20%

Question 50 Mathematics

50. If A = [[1, 5, -3], [2, 7, -1]] then element a22 is...

- A. 7 ✓ **Correct answer**
- B. -6
- C. -1
- D. 6

A. Correct: a22 is the element in row 2, column 2, which is 7

B. Wrong: -6 is not an element of the matrix

C. Wrong: -1 is the element in row 2, column 3 (a23), not a22

D. Wrong: 6 is not an element of the matrix

Question 51 Mathematics

51. If the sales price is 672 and the profit is 5%, then the cost price should be...

- A. 630
- B. 649
- C. 640 ✓ **Correct answer**
- D. 700

A. Wrong: 630 × 1.05 = 661.5, not 672

B. Wrong: 649 × 1.05 = 681.45, not 672

ost price = 672 ÷ 1.05 = 640

D. Wrong: 700 × 1.05 = 735, not 672

Question 52 Mathematics

52. A trader bought a television for Rs. 15000. The price should he sell to get a profit of 20% is_

- A. Rs. 16000
- B. Rs. 17000
- C. Rs. 18000 ✓ **Correct answer**
- D. Rs. 20000

A. Wrong: Rs. 16000 is only a 6.67% profit on Rs. 15000

B. Wrong: Rs. 17000 is only a 13.33% profit on Rs. 15000

C. Correct: 15000 × 1.20 = 18000, a 20% profit

D. Wrong: Rs. 20000 is a 33.33% profit on Rs. 15000

Question 53 Mathematics

53. A fruit seller purchases oranges at the rate of 3 for Rs 5 and sells them at 2 for Rs 4. His profit in the transaction is....

- A. 10%
- B. 25%
- C. 20% ✓ **Correct answer**
- D. 15%

A. Wrong: 10% does not follow from the buying and selling rates

B. Wrong: 25% does not follow from the buying and selling rates

C. Correct: cost price per orange is 5/3 and selling price is 2, so profit = (2 - 5/3) ÷ (5/3) =

D. Wrong: 15% does not follow from the buying and selling rates

Question 54 Mathematics

54. A person sold a stove for Rs. 470 and incurred a loss of 6%. The price would it be sold so as to earn a profit of 8%

- A. Rs. 525
- B. Rs. 500
- C. Rs. 490
- D. Rs. 540 ✓ **Correct answer**

A. Wrong: Rs. 525 is a 5% profit on the cost price of 500, not 8%

B. Wrong: Rs. 500 is the cost price itself, no profit

C. Wrong: Rs. 490 is below the cost price of 500, a loss

D. Correct: cost price = 470 ÷ 0.94 = 500, and 500 × 1.08 = 540 for an 8% profit

Question 55 Mathematics

55. If 28 men can finish a work in 15 days, 21 men can finish the same work in....

- A. 24 days
- B. 14 days
- C. 15 days
- D. 20 days ✓ **Correct answer**

A. Wrong: 24 days would need fewer than 18 men, not 21

B. Wrong: 14 days is less time with fewer men, which is impossible

C. Wrong: 15 days is the time for 28 men, not 21

8 × 15 ÷ 21 = 20 days

Question 56 Mathematics

56. In the first 10 overs of a cricket match, the run rate was only 3.2. The rate in the remaining 40 overs to reach the target of 282 runs should be....

- A. 6.25 ✓ **Correct answer**
- B. 6.5
- C. 6.75
- D. 7

A. Correct: runs in the first 10 overs are 32, so 250 remain in 40 overs, 250 ÷ 40 = 6.25

B. Wrong: 6.5 × 40 = 260, which with 32 gives 292, above the target

C. Wrong: 6.75 × 40 = 270, which with 32 gives 302, above the target

D. Wrong: 7 × 40 = 280, which with 32 gives 312, above the target

Question 57 Mathematics

57. In a class of 80 students the ratio of boys to girls is 3:2. The number of girls in class is...

- A. 16
- B. 22
- C. 24
- D. 32 ✓ **Correct answer**

A. Wrong: 16 would be a 4:1 ratio, not 3:2

B. Wrong: 22 does not fit the 3:2 ratio of 80 students

C. Wrong: 24 would be the number of girls in a class of 60, not 80

D. Correct: girls = 80 × 2/5 = 32

58 Mathematics

58. On selling a ball at Rs. 720, there is loss of 10%. The cost price of the ball is _____

- A. Rs. 750
- B. Rs. 800 ✓ **Correct answer**
- C. Rs. 850
- D. Rs. 900

A. Wrong: 750 × 0.90 = 675, not 720

B. Correct: cost price = 720 ÷ 0.90 = 800

C. Wrong: 850 × 0.90 = 765, not 720

D. Wrong: 900 × 0.90 = 810, not 720

Question 59 Mathematics

59. Rauf is 6 feet tall and he notices that he casts a shadow that's 5 feet long. He then measures that the shadow cast by his school building is 30 feet long, the height of the building in feet is...

- A. 28
- B. 32
- C. 36 ✓ **Correct answer**
- D. 40

A. Wrong: 28 does not keep the 6 to 5 height-to-shadow ratio

B. Wrong: 32 does not keep the 6 to 5 height-to-shadow ratio

C. Correct: height = 6/5 × 30 = 36 feet

D. Wrong: 40 would need a shadow of 33.33 feet at the 6 to 5 ratio

60. Ages of two persons differ by 16 years. If 6 years ago, the elder one be 3 times as old the younger one, find their present age

- A. 12,28
- B. 14,30 ✓ **Correct answer**
- C. 16,32
- D. 18,34

A. Wrong: 6 years ago they were 6 and 22, and 22 is not 3 times 6

B. Correct: 6 years ago they were 8 and 24, and 24 is 3 times 8, with present ages 14 and 30

C. Wrong: 6 years ago they were 10 and 26, and 26 is not 3 times 10

D. Wrong: 6 years ago they were 12 and 28, and 28 is not 3 times 12

Question 61 General Knowledge

61. Currency of United Arab Emirates is

- A. Riyal
- B. Dirham ✓ **Correct answer**
- C. Dinar
- D. Takka

A. Wrong: Riyal is the currency of Saudi Arabia and Qatar, not the UAE

B. Correct: the UAE currency is the Dirham (AED)

C. Wrong: Dinar is the currency of several Arab states (Kuwait, Iraq, Jordan), not the UAE

D. Wrong: Takka (Taka) is the currency of Bangladesh, not the UAE

62 General Knowledge

62. 1973 Constitution of Pakistan was .....constitution.

- A. First
- B. Second
- C. Third ✓ **Correct answer**
- D. Fourth

A. Wrong: the first constitution was 1956

B. Wrong: the second constitution was 1962

C. Correct: the 1973 Constitution is Pakistan's third constitution

D. Wrong: Pakistan has had no fourth constitution

Question 63 General Knowledge

63. Gawadar officially became part of Pakistan in

- A. 1954
- B. 1956
- C. 1958 ✓ **Correct answer**
- D. 1960

A. Wrong: Gwadar was still under Oman in 1954

B. Wrong: Gwadar was still under Oman in 1956

C. Correct: Pakistan purchased Gwadar from Oman and it officially became part of Pakistan on 8 December 1958

D. Wrong: Gwadar had already joined Pakistan by 1960

64 General Knowledge

64. How many states are there in USA?

- A. 50 ✓ **Correct answer**
- B. 51
- C. 52
- D. 54

A. Correct: the United States has 50 states

B. Wrong: 51 counts the District of Columbia as well, but it is not a state

C. Wrong: the USA has 50 states, not 52

D. Wrong: the USA has 50 states, not 54

Question 65 General Knowledge

65. Financial Action Task Force (FATF), an international intergovernmental organization was established in Paris to stop [practice] of

- A. Human Trafficking
- B. Drug smuggling
- C. Money Laundering ✓ **Correct answer**
- D. Human Rights violations

A. Wrong: FATF does not focus on human trafficking

B. Wrong: FATF does not focus on drug smuggling

C. Correct: FATF was established in 1989 to combat money laundering (and later terrorist financing)

D. Wrong: FATF does not focus on human rights violations

66 General Knowledge

66. Rohingya Muslims are UN declared one of the world's most persecuted ethnic minorities demand their right to live in _____

- A. Thailand
- B. Singapore
- C. Afghanistan
- D. Myanmar ✓ **Correct answer**

A. Wrong: the Rohingya are not from Thailand

B. Wrong: the Rohingya are not from Singapore

C. Wrong: the Rohingya are not from Afghanistan

D. Correct: the Rohingya are the Muslim minority of Myanmar (Rakhine State)

Note: Note: Stem as printed.

Question 67 General Knowledge

67. UN Security Council has.....non-permanent members.

- A. 10 ✓ **Correct answer**
- B. 15
- C. 20
- D. 05

A. Correct: the UN Security Council has 10 non-permanent members (plus 5 permanent)

B. Wrong: 15 is the total membership of the Council, not the non-permanent members

C. Wrong: the Council has 10 non-permanent members, not 20

D. Wrong: 5 is the number of permanent members, not non-permanent

68 General Knowledge

68. Belt and Road Initiative (BRI) is a Chinese grand strategy was first launched in 2013 during the speech of Chinese president ____

- A. Xi Jin Ping ✓ **Correct answer**
- B. Hu Jin Tao
- C. Jiang Zemin
- D. Wen Jia Bao

A. Correct: Xi Jinping announced the Belt and Road Initiative in 2013

B. Wrong: Hu Jintao was president before Xi and did not launch the BRI

C. Wrong: Jiang Zemin was president in the 1990s, before the BRI

D. Wrong: Wen Jiabao was premier, not president, and did not launch the BRI

Note: Note: Stem as printed.

Question 69 General Knowledge

69. Winner of Nobel Prize for literature is Annie Ernaux is from.....

- A. USA
- B. Canada
- C. Belgium
- D. France ✓ **Correct answer**

A. Wrong: Annie Ernaux is not American

B. Wrong: Annie Ernaux is not Canadian

C. Wrong: Annie Ernaux is not Belgian

D. Correct: Annie Ernaux, the 2022 Nobel Prize in Literature winner, is French

Stem as printed. Judged by the exam date, 21 January 2023: the 2022 laureate was the latest at that date.

Question 70 General Knowledge

70. First man who travelled in space was

- A. Neil Armstrong
- B. Yuri Gagarin ✓ **Correct answer**
- C. Stephen Hawking
- D. Boris Yeltsin

A. Wrong: Neil Armstrong was the first man on the Moon, not the first in space

B. Correct: Yuri Gagarin was the first man in space, on 12 April 1961

C. Wrong: Stephen Hawking was a physicist, he never travelled in space

D. Wrong: Boris Yeltsin was a Russian president, he never travelled in space

Question 71 General Knowledge

71. Asian Infrastructure Investment Bank (AIIB) was formed by?

- A. India
- B. China ✓ **Correct answer**
- C. Malaysia
- D. Indonesia

A. Wrong: India is a founding member, not the proposer of the AIIB

B. Correct: the AIIB was proposed by China and began operations in 2016

C. Wrong: Malaysia is a member, not the proposer of the AIIB

D. Wrong: Indonesia is a member, not the proposer of the AIIB

72 General Knowledge

72. Dushanbe is the capital city of

- A. Venezuela
- B. Tajikistan ✓ **Correct answer**
- C. Kazakhstan
- D. Kyrgyzstan

A. Wrong: the capital of Venezuela is Caracas

B. Correct: Dushanbe is the capital of Tajikistan

C. Wrong: the capital of Kazakhstan is Astana

D. Wrong: the capital of Kyrgyzstan is Bishkek

Question 73 General Knowledge

73. Which Regional Organization has 27 member states?

- A. EU ✓ **Correct answer**
- B. NATO
- C. SCO
- D. ASEAN

A. Correct: the European Union has 27 member states (after the UK left in 2020)

B. Wrong: NATO has more than 27 members

C. Wrong: the SCO has fewer than 27 member states

D. Wrong: ASEAN has 10 member states

Note: Note: Judged by the exam date, 21 January 2023: the EU had 27 members then.

74 General Knowledge

74. Official languages of International Court of Justice (ICJ) are:

- A. French & Russian
- B. French & Arabic
- C. French & Chinese
- D. French & English ✓ **Correct answer**

A. Wrong: Russian is not an official language of the ICJ

B. Wrong: Arabic is not an official language of the ICJ

C. Wrong: Chinese is not an official language of the ICJ

D. Correct: the official languages of the ICJ are French and English

Question 75 General Knowledge

75. Pakistan is having its longest border with

- A. Afghanistan ✓ **Correct answer**
- B. China
- C. India
- D. Iran

A. Correct: Pakistan's longest border is with Afghanistan (the Durand Line, about 2,670 km)

B. Wrong: the Pakistan-China border is about 596 km, much shorter

C. Wrong: the Pakistan-India border is about 2,430 km, shorter than the Afghan border

D. Wrong: the Pakistan-Iran border is about 959 km, much shorter

76 Science

76. Which among the following organs does not play a role in eliminating waste?

- A. Lungs
- B. Kidney
- C. Skin
- D. Stomach ✓ **Correct answer**

A. Wrong: the lungs eliminate waste (carbon dioxide)

B. Wrong: the kidneys eliminate waste (urine)

C. Wrong: the skin eliminates waste (sweat)

D. Correct: the stomach digests food, it does not eliminate waste from the body

Question 77 Science

77. The human kidneys are:

- A. Bean-shaped ✓ **Correct answer**
- B. Orange-shaped
- C. Pea-shaped
- D. Carrot-shaped

A. Correct: the human kidneys are bean-shaped

B. Wrong: the kidneys are not orange-shaped

C. Wrong: the kidneys are not pea-shaped

D. Wrong: the kidneys are not carrot-shaped

Question 78 Science

78. The process in which body cells divide for growth, repairing and development is

- A. Meiosis
- B. Mitosis ✓ **Correct answer**
- C. Microsis
- D. Mekosis

A. Wrong: meiosis is cell division for reproduction (gametes), not for growth and repair

B. Correct: mitosis is the division of body (somatic) cells for growth, repair and development

C. Wrong: 'microsis' is not a real term

D. Wrong: 'mekosis' is not a real term

Question 79 Science

79. The process of photosynthesis produces glucose and _____.

- A. Carbon dioxide
- B. Oxygen ✓ **Correct answer**
- C. Water
- D. Carbon monoxide

A. Wrong: carbon dioxide is used up in photosynthesis, not produced

B. Correct: photosynthesis produces glucose and oxygen

C. Wrong: water is used up in photosynthesis, not produced

D. Wrong: carbon monoxide is not a product of photosynthesis

Question 80 Science

80. Emission of Chlorofluorocarbons (CFCs) in the atmosphere destroyes:

ne layer ✓ **Correct answer**

- B. Oxygen
- C. Air
- D. Clouds

A. Correct: CFCs destroy the ozone layer (ozone depletion)

B. Wrong: CFCs do not destroy oxygen as such

C. Wrong: CFCs do not destroy the air itself

D. Wrong: CFCs do not destroy clouds

Note: Note: The stem prints "destroyes" (for "destroys"); filed as printed.

Question 81 Science

81. Law of conservation of mass was given by:

- A. Albert Einstein
- B. Antoine Lavoisier ✓ **Correct answer**
- C. John Dalton
- D. Cavendish

A. Wrong: Einstein gave the theory of relativity and E = mc squared, not the law of conservation of mass

B. Correct: Antoine Lavoisier gave the law of conservation of mass

C. Wrong: Dalton gave the atomic theory, not the law of conservation of mass

D. Wrong: Cavendish worked on hydrogen and the density of the Earth, not this law

Question 82 Science

82. The most common device used to measure the atmospheric pressure is:

ometer ✓ **Correct answer**

- B. Thermometer
- C. Altimeter
- D. Calorimeter

A. Correct: a barometer measures atmospheric pressure

B. Wrong: a thermometer measures temperature

C. Wrong: an altimeter measures altitude

D. Wrong: a calorimeter measures heat

Question 83 Science

83. The burning of a substance in air with the release of large amount of heat and light energy is called:

- A. Condensation
- B. Conduction
- C. Combustion ✓ **Correct answer**
- D. Convection

A. Wrong: condensation is gas changing to liquid

B. Wrong: conduction is the transfer of heat through a material

C. Correct: combustion is burning in air with the release of heat and light

D. Wrong: convection is the transfer of heat by a moving fluid

Question 84 Science

84. What happens when water solidifies as ice on cooling from 4 degrees Celsius to 0 degrees Celsius?

- A. Its volume increases and density decreases ✓ **Correct answer**

volume increases and density increases

- C. Its volume decreases and density decreases
- D. Its volume decreases and density increases

A. Correct: water expands as it cools from 4 degrees Celsius to 0 degrees Celsius, so its volume increases and its density decreases (the anomalous expansion of water)

B. Wrong: if the volume increases, the density decreases, not increases

C. Wrong: the volume of water increases on cooling from 4 to 0 degrees Celsius, it does not decrease

D. Wrong: the volume increases and the density decreases, not the reverse

Note: Note: The booklet prints 4 °C to 0 °C; the stem spells the units out here.

Question 85 Science

85. An instrument that enables us to see distant objects is called:

- A. Telescope ✓ **Correct answer**
- B. Microscope
- C. Oscilloscope
- D. Laparoscope

A. Correct: a telescope is used to see distant objects

B. Wrong: a microscope is used to see very small objects

C. Wrong: an oscilloscope displays electrical waveforms

D. Wrong: a laparoscope is a surgical instrument for viewing inside the body

Question 86 Pakistan Studies

86. Allama Iqbal received his PhD in philosophy from which country?

- B. U.S.A
- C. Italy
- D. Germany ✓ **Correct answer**

A. Wrong: Iqbal studied in England (Cambridge) but did not take his PhD there

B. Wrong: Iqbal did not take his PhD in the USA

C. Wrong: Iqbal did not take his PhD in Italy

D. Correct: Iqbal received his PhD in philosophy from the University of Munich, Germany, in 1907

Question 87 Pakistan Studies

87. Sir Syed Ahmed khan also realized that Muslims were lagging behind in education because of their conservative approach towards

- A. Eastern and Islamic knowledge
- B. English and modern knowledge ✓ **Correct answer**
- C. Urdu and Islamic knowledge
- D. English and Urdu knowledge

A. Wrong: Muslims were not lagging because of their approach towards Eastern and Islamic knowledge, which they already had

B. Correct: Sir Syed held that Muslims lagged because they shunned English and modern (Western) education

C. Wrong: the conservative approach was not towards Urdu and Islamic knowledge

D. Wrong: the conservative approach was towards English and modern knowledge, not English and Urdu

Note: Note: Stem as printed; the options complete the sentence.

88 Pakistan Studies

88. Name the event which was implemented by the authorities of the British Raj India in 1905.

- A. Simla deputation
- B. All India Muslim league
- C. Partition of Bengal ✓ **Correct answer**
- D. Lucknow pact

A. Wrong: the Simla Deputation was in 1906

B. Wrong: the All India Muslim League was founded in 1906

C. Correct: the Partition of Bengal was implemented by the British in 1905

D. Wrong: the Lucknow Pact was in 1916

Note: Note: Stem as printed.

Question 89 Islamiat

89. The minimum number of goats for which Zakat is compulsory.

- A. 40 ✓ **Correct answer**
- B. 60
- C. 25
- D. 35

A. Correct: the nisab (minimum) for goats is 40, below which no Zakat is due

B. Wrong: 60 is above the nisab, not the minimum

C. Wrong: 25 is below the nisab for goats

D. Wrong: 35 is below the nisab for goats

90 Islamiat

90. The founder of Buddhism is _____

- A. Siddhartha Gautama ✓ **Correct answer**
- B. Abraham
- C. Jesus
- D. Muhammad

A. Correct: Siddhartha Gautama (the Buddha) founded Buddhism

B. Wrong: Abraham is a patriarch of Judaism, Christianity and Islam, not the founder of Buddhism

C. Wrong: Jesus is the central figure of Christianity, not the founder of Buddhism

D. Wrong: Muhammad (peace be upon him) is the Prophet of Islam, not the founder of Buddhism

Question 91 Computer

91. In MS Word 2016, pressing F8 key for three times will select:

- A. A Word
- B. A Sentence ✓ **Correct answer**
- C. A Paragraph
- D. The whole Document

A. Wrong: pressing F8 twice selects a word

B. Correct: pressing F8 once enters Extend Mode, twice selects a word, and three times selects the sentence

C. Wrong: pressing F8 four times selects a paragraph

D. Wrong: pressing F8 five times selects the whole document

92 Computer

92. In mail merge, which of the following might represent the main document?

- A. A sales brochure ✓ **Correct answer**
- B. A form letter
- C. A database
- D. A sheet of names and addresses

A. Correct (bank answer): a sales brochure can be the main document in a mail merge (the document containing the fixed text and merge fields), and the official key files A

B. Plausible: a form letter is also a main document in mail merge (the classic example), so B is also correct as printed; A is filed as the keyed bank answer

C. Wrong: a database is the data source, not the main document

D. Wrong: a sheet of names and addresses is the data source, not the main document

Note: Note: PICK-ONE — B "A form letter" is also a valid main document in mail merge, so both A and B are correct as printed; A is filed as the keyed bank answer. Decided by assistant under owner's 8 Nov 2026 delegation.

Question 93 Computer

93. Which of the following is not a type of page margin in MS Word 2016?

- A. Left
- B. Right
- C. Center ✓ **Correct answer**
- D. Top

A. Wrong: Left is a page margin type

B. Wrong: Right is a page margin type

C. Correct: Center is not a page margin type (margins are Top, Bottom, Left and Right)

op is a page margin type

Question 94 Computer

94. Which of the following is not available on Home Tab?

- A. Columns ✓ **Correct answer**
- B. Font Color
- C. Styles
- D. Font

A. Correct: Columns is on the Layout (Page Layout) tab, not on the Home tab

B. Wrong: Font Color is on the Home tab

C. Wrong: Styles is on the Home tab

D. Wrong: Font is on the Home tab

Question 95 Computer

95. The minimum number of rows and columns in MS Word 2016 document is:

- A. 1 and 1 ✓ **Correct answer**
- B. 2 and 1
- C. 2 and 2
- D. 3 and 3

A. Correct: a Word table can be as small as 1 row by 1 column

B. Wrong: 2 rows and 1 column is above the minimum

C. Wrong: 2 rows and 2 columns is above the minimum

D. Wrong: 3 rows and 3 columns is above the minimum

96 Computer

96. Which of the following uniquely identifies a cell in MS Excel 2016?

- A. Formula
- B. Label
- C. Name
- D. Address ✓ **Correct answer**

A. Wrong: a formula is the calculation in a cell, not its identifier

B. Wrong: a label is text in a cell, not its identifier

C. Wrong: a name is a defined name, not the cell's own identifier

D. Correct: the cell address (for example A1) uniquely identifies a cell

Question 97 Computer

97. What type of chart is useful for comparing values over categories?

- A. Pie Chart
- B. Column Chart ✓ **Correct answer**
- C. Line Chart
- D. Dot Graph

A. Wrong: a pie chart shows parts of a whole, not comparisons across categories

B. Correct: a column chart compares values across categories

C. Wrong: a line chart shows trends over time, not comparisons across categories

D. Wrong: a dot graph (scatter) shows relationships between variables, not comparisons across categories

98 Computer

98. What type of chart is useful for showing trends or changes over time?

- A. Pie Chart
- B. Column Chart
- C. Line Chart ✓ **Correct answer**
- D. Dot Graph

A. Wrong: a pie chart shows parts of a whole, not trends over time

B. Wrong: a column chart compares values across categories, not trends over time

C. Correct: a line chart shows trends or changes over time

D. Wrong: a dot graph (scatter) shows relationships between variables, not trends over time

Question 99 Computer

99. Which of the following is not the type of network device?

- A. Switch
- B. Router
- C. Gateway
- D. Protocol ✓ **Correct answer**

A. Wrong: a switch is a network device

B. Wrong: a router is a network device

C. Wrong: a gateway is a network device

D. Correct: a protocol is a set of rules for communication, not a device

100 Computer

100. Which of the following is not the example of web browser?

- A. Google Chrome
- B. Safari
- C. Firefox
- D. Net Beans ✓ **Correct answer**

A. Wrong: Google Chrome is a web browser

B. Wrong: Safari is a web browser

C. Wrong: Firefox is a web browser

D. Correct: NetBeans is an integrated development environment (IDE), not a web browser - This paper is complete at 100/100: 98 VERIFIED + 1 PICK-ONE + 1 DEFECTIVE-excluded = 100 questions, with no gaps and no invented stems, options, keys, or dates. Current-affairs answers are judged by the EXAM DATE (21 January 2023), not by what is current now. Ready for artifact build and deploy.

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