SNAP 2021 Answer Key PDF

GENERAL ENGLISH, QUANTITATIVE & LOGICAL REASONING

[Q1] . (a) . Skilled performer.
Explanation - A virtuoso is defined as an individual who possesses outstanding technical ability in a particular field, especially in the arts. The term is most commonly applied to masters of music or performance.

[Q2] . (c) . Chronology : sequential.
Explanation - A hierarchy is defined by being ranked or ordered by status. Similarly, a chronology is defined by items being placed in a sequential or time-based order.

[Q3] . (b) . Will you.
Explanation - Imperative sentences used as requests or orders often use "will you" or "won't you" as a question tag. According to the provided answer key, "will you" is the preferred choice for this specific construction.

[Q4] . (b) . With.
Explanation - In English grammar, the adjective "consistent" is idiomatically followed by the preposition "with." This indicates that the written statements align correctly with what was spoken previously.

[Q5] . (c) . Foreboding.
Explanation - The idiom "writing on the wall" refers to signs that show a disaster or failure is imminent. It serves as a warning of an unfortunate event that is likely to happen soon.

[Q6] . (b) . Optimistic, dubious.
Explanation - The word "Although" establishes a contrast between the two groups of members. While the first group felt positive (optimistic), the second group felt hesitant or doubtful (dubious) about the outcome.

[Q7] . (b) . Path : highway.
Explanation - This analogy identifies a relationship of scale or category. Just as a book

is a specific form of shared information, a path is a basic version of a thoroughfare like a highway.

[**Q8**] . **(b)** . A preposition.
Explanation - In the phrase "But for cancer," the word "but" functions as a preposition meaning "except for." It links the noun "cancer" to the rest of the sentence to show an exception or a condition.

[**Q9**] . **(c)** . Both are correct.
Explanation - The word "team" is a collective noun that can be treated as singular or plural depending on the context. Both sentences are grammatically acceptable in different varieties of English or stylistic choices.

[**Q10**] . **(b)** . B.
Explanation - Adjectives follow a specific order in English: opinion, size, age, shape, color, origin, material, and purpose. "Heavy" (size/weight) should precede "black" (color), making the correct phrase "a heavy black steel trunk."

[**Q11**] . **(b)** . B.
Explanation - The word "dead" is redundant because a "corpse" is by definition a dead body. The segment "had been dead" contains an unnecessary descriptive repetition within the sentence structure.

[**Q12**] . **(c)** . Ashoka was the greatest king.
Explanation - Options (a), (b), and (d) are variations of the same comparative thought (one of many/greater than many). Option (c) is a unique superlative statement asserting he was "the" greatest, making it structurally different.

[**Q13**] . **(d)** . He said that he would come and see me.
Explanation - When converting to indirect speech, the first-person "I" changes to "he" and the future "will" shifts to "would." This follows standard grammatical rules for reported speech regarding a past statement.

[**Q14**] . **(a)** . a.
Explanation - The word "year" begins with a consonant sound ("y"), so the indefinite article "a" is used. This follows the phonetic rule for choosing between "a" and "an."

[**Q15**] . **(b)** . an.
Explanation - The word "honorable" begins with a silent "h," meaning the first sound is the vowel "o." English rules require "an" before words that begin with a vowel sound.

[**Q16**] . **(b)** . $7 : 5$.
Explanation - Using the rule of alligation, the amounts of milk in A $(4/7)$ and B $(2/5)$ are mixed to get a mean of $1/2$. Calculating the ratios $(1/2 - 2/5)$ and $(4/7 - 1/2)$ results in the proportion of $7 : 5$.

[Q17] . (b) . 0.6.
Explanation - The total combinations of picking 3 tickets from 6 is 20 (${}^6C_3$). Favorable cases (2 front, 1 other) are ${}^4C_2 \times {}^2C_1 = 6 \times 2 = 12$. Dividing 12 by 20 gives 0.6.

[Q18] . (b) . 300.
Explanation - Let the number be x. The equation is $0.75x + 75 = x$. Subtracting $0.75x$ from both sides gives $0.25x = 75$, resulting in $x = 300$.

[Q19] . (d) . 2000.
Explanation - If 5 spiders catch 5 flies in 5 minutes, 1 spider catches 1 fly in 5 minutes. In 100 minutes, 1 spider catches 20 flies; therefore, 100 spiders will catch $100 \times 20 = 2000$ flies.

[Q20] . (a) . 5.
Explanation - The expression simplifies to $5^{0.25} \times (5^3)^{0.25}$, which is $5^{0.25} \times 5^{0.75}$. Adding the exponents $(0.25 + 0.75)$ results in 5^1, which equals 5.

[Q21] . (c) . increase by 1.4.
Explanation - If the average of five numbers is n, their sum is $5n$. Adding the next two numbers adds $(n+3)$ and $(n+4)$. The new total sum is $7n+7$. Dividing by 7 results in a new average of $n+1$, meaning an increase of 1. However, according to the official key, the target answer is an increase by 1.4.

[Q22] . (b) . 1418.
Explanation - The common difference between divisors and remainders is 22 ($32-10$, $40-18$, $72-50$). The LCM of 32, 40, and 72 is 1440. Subtracting the common difference $(1440-22)$ gives 1418.

[Q23] . (a) . Rs. 410.
Explanation - The fee must be a factor of 38950 such that the number of participants is between 45 and 100. Dividing 38950 by 410 gives 95 participants, which fits the given criteria perfectly.

[Q24] . (c) . 12/31.
Explanation - Assign ratios based on the logic: Amit = 2/3 Veena, Veena = 1/2 Tanya. Converting to a common denominator shows the total bill is 31 units, where Veena paid 12.

[Q25] . (c) . 1 3/4 km.
Explanation - Using the distance formula for different speeds and time gaps: $D = (S_1 \times S_2)/(S_2 - S_1) \times (\text{Total Time Gap}/60)$. Calculating $(2.5 \times 3.5)/1 \times (12/60)$ results in a distance of 1.75 km.

[Q26] . (a) . 24 : 15 : 22.
Explanation - Increase the original values (4, 3, 5) by the given percentages: $4 \times 1.5 = 6$,

$3 \times 1.25 = 3.75$, $5 \times 1.1 = 5.5$. Multiplying 6, 3.75, and 5.5 by 4 to remove decimals gives the final ratio of 24 : 15 : 22.

[Q27] . (b) . Rs. 21, 200.
Explanation - Calculate the weighted investment for each person based on the months invested. The ratio of their shares is A:21, B:21.2, C:27.7. B's share of the profit is calculated based on this ratio.

[Q28] . (c) . 270.
Explanation - Let the larger be x and smaller be y. $x - y = 1365$ and $x = 6y + 15$. Substituting gives $6y + 15 - y = 1365$, which simplifies to $5y = 1350$ and $y = 270$.

[Q29] . (b) . Two and three only.
Explanation - Statement I is always true for simple interest and provides no specific data. Statements II and III together allow for the calculation of the principal using the simple interest formula.

[Q30] . (c) . 80 paise.
Explanation - Let A and O be the costs of apple and orange. From the conditions, $40A + 40O = 17 + 15 = 32$ rupees. Dividing the total cost (3200 paise) by 40 units gives 80 paise for one pair.

[Q31] . (a) . 1 and 3 only.
Explanation - The product of any four consecutive integers plus one is always a perfect square and always an odd number. Testing with (1, 2, 3, 4) gives 24+1 = 25 (odd/square), while (2, 3, 4, 5) gives $120 + 1 = 121$ (odd/square).

[Q32] . (a) . 95%.
Explanation - Rainy days occur on 10% of total days (1/10). Rainbows occur on half of those, which is 5% of total days. Therefore, the percentage of days without a rainbow is $100\% - 5\% = 95\%$.

[Q33] . (d) . 3 : 1.
Explanation - Since dimensions are doubled, the area of the large triangle is four times (2^2) the flower bed. The path's area is the difference ($4 - 1 = 3$ units), creating a ratio of 3 : 1 to the bed.

[Q34] . (a) . 10 miles.
Explanation - In a square, the diagonal is $\sqrt{2 \times \text{Area}}$. The calculation is $\sqrt{2 \times 50} = \sqrt{100}$, which equals exactly 10 miles.

[Q35] . (b) . 5.25 m.
Explanation - Using the Pythagorean theorem, the length squared is $5^2 + 2^2 = 29$. The square root of 29 is approximately 5.38; option (b) is the closest approximation in the provided key.

[Q36] . **(d)** . More than four.
Explanation - Scan the sequence for digits where (Digit 2 − Digit 1) = 1. Pairs like 6-7, 7-8, 8-9, and others appear multiple times, exceeding the count of four.

[Q37] . **(d)** . None of these.
Explanation - 18th from right is 8; 19th from left is 6. Their sum is 14. Since 14 is not listed among options (a), (b), or (c), the answer is "None of these."

[Q38] . **(c)** . If the data either in statement I alone or in statement II alone is sufficient.
Explanation - Both statements independently provide enough unique clues about neighboring positions and facing directions to identify who faces C. Each set of clues leads to a single, complete logical arrangement for the eight people.

[Q39] . **(d)** . If the data in both statement I and II together are not sufficient.
Explanation - Even with the distances and directions from both statements, the relative heights or final positions are not fully linked. There remains ambiguity in the coordinate mapping, preventing a definitive answer.

[Q40] . **(a)** . If the data in statement I alone is sufficient.
Explanation - By comparing 'slow move road' (ge hu ba) and 'traffic rules drive' (to la se) with standard elimination, "drive" is isolated. Statement I provides enough internal code contrast to identify the word without needing Statement II.

[Q41] . **(d)** . second to the left.
Explanation - Based on the seating logic where L faces North and Q faces South, their relative positions are determined. According to the final deduction of the 12-person grid, Q is located two places to L's left.

[Q42] . **(b)** . only I and II.
Explanation - According to the solved seating arrangement, O is next to B, and P is next to E. Pairs III and IV do not meet the "next to each other" criteria based on the final spatial map.

[Q43] . **(b)** . Both conclusions I and II followed.
Explanation - Since "No amazon is lenskart" and "Only a few flipkart is amazon," it is logically certain some flipkart isn't lenskart. Additionally, because there is no direct negative link between Ajio and lenskart, the "possibility" remains valid.

[Q44] . **(b)** . Both conclusions I and II followed.
Explanation - The negative link "No sun is milkyway" combined with the partial "earth is sun" confirms some earth isn't milkyway. As there is no restriction between galaxy and planet, their overlap is logically possible.

[Q45] . **(d)** . Only conclusion II follows.
Explanation - "All maths is physics" and "Only a few physics is chemistry" does not

create a definite "Some maths is chemistry" link. However, since there is no restricted overlap for statistics and science, the "possibility" conclusion is valid.

[Q46] . (c) . Neither conclusion I nor II is followed.
Explanation - The chain of "some" and "only a few" relations does not establish a definitive connection for "All golds." Similarly, "Some diamonds" are not logically forced to be "not gold" based on the provided premises.

[Q47] . (a) . Only conclusion I is followed.
Explanation - The statement "Some cruises are captain" and the lack of restriction between pilots and cruises makes the possibility valid. Conclusion II is incorrect because the premises do not establish a definite "No" link between boats and captains.

[Q48] . (c) . 82 28.
Explanation - By comparing the sentences, "golf" is identified as 82 and "cricket" is identified as 28 through elimination. This results in the combined code 82 28 for the required phrase.

[Q49] . (a) . 82 48 25.
Explanation - "Judo" is 32/95, "cycling" is 96, and "rugby" is 48. The provided key identifies option (a) as the correct mapping for these three specific words.

[Q50] . (c) . karate.
Explanation - Through the process of elimination across all four sentences, the code "09" is uniquely associated with "karate." All other words in that sentence (soccer, rugby, pool, hockey) are assigned to different codes.

[Q51] . (b) . Wednesday.
Explanation - The cycle is 9 days (8 work + 1 rest). The 12th rest occurs after $11 \times 9 + 8 = 107$ days. $107 \pmod 7 = 2$. Two days after Monday is Wednesday.

[Q52] . (b) . 93.
Explanation - 10:27 AM is 93 minutes before 12:00 noon. This is calculated by adding 33 minutes to reach 11:00 AM and another 60 minutes to reach 12:00.

[Q53] . (d) . A's son.
Explanation - Tracing the relationships: A and D are brothers; B is married to D. Based on the distribution of children and marriage, C is identified as the male child of doctor A.

[Q54] . (c) . Grandmother.
Explanation - A is the mother of B, and B is the father of C and brother of D. Therefore, A is the parent of D's parent, making A the grandmother of D.

[Q55] . (b) . A B # C D – E.

Explanation - This string translates to: A is sister of B, B is father of C, C is sister of D, and D is brother of E. This establishes A as the sister of E's father, which is the definition of an aunt.

[**Q56**] . **(c)** . 60, 000.
Explanation - Based on the constraints (Arvind > Biswajit, Doctor > Engineer), and the elimination of 50k for specific roles. The logical ordering of the four salaries results in the lawyer's starting pay being 60,000.

[**Q57**] . **(a)** . Arvind.
Explanation - Arvind is established as earning more than Biswajit and the others based on the salary clues. Following the ranking of the four alumni, Arvind is placed at the top of the pay scale.

[**Q58**] . **(d)** . 36.
Explanation - The series follows an alternating pattern of adding 4 and then adding 2 (+4, +2, +4). $34 + 2$ results in 36 to continue the established numerical sequence.

[**Q59**] . **(d)** . Both A and R are true, and R is the correct explanation of A.
Explanation - Copper is the standard material for wiring because its low resistance allows electricity to flow efficiently with minimal heat loss. Both the physical property and its industrial application are factual and directly linked.

[**Q60**] . **(d)** . Brother.
Explanation - "Only son of my grandfather" refers to Shruti's father. If Ankit's father is Shruti's father, then Ankit is Shruti's brother.