SAT

Sample Question Paper - 2022

Country: US | Duration: 2h 14m | Max Marks: 1600 | Language: English

Negative Marking: No | Total Questions: 98 | QuizVerse AI Tutor

General Instructions:

1. This paper contains 98 questions across 2 section(s): Reading & Writing, Math.
2. Duration: 2h 14m. Maximum marks: 1600.
3. Negative marking: No.
4. Read each question carefully before answering.

Section 1: Reading & Writing (54 Questions)

Q1. The word 'ephemeral' most nearly means:

(A) mysterious

(B) short-lived

(C) powerful

(D) permanent

Q2. The primary purpose of the passage is to:

(A) describe a scene

(B) argue a position

(C) tell a story

(D) list facts

Q3. The word 'ubiquitous' most nearly means:

(A) expensive

(B) invisible

(C) widespread

(D) rare

Q4. Which evidence best supports the author's claim?

(A) Statistical data in paragraph 2

(B) The anecdote in paragraph 1

(C) The title

(D) The conclusion

Q5. Which word best completes: 'The scientist's ____ approach led to groundbreaking discoveries.'

(A) reckless

(B) timid

(C) methodical

(D) haphazard

Q6. Which sentence best summarizes the main idea?

(A) The last sentence

(B) The first sentence

(C) None of these

(D) The topic sentence

Q7. Which sentence best summarizes the main idea?

(A) The last sentence

(B) The first sentence

(C) None of these

(D) The topic sentence

Q8. The word 'ubiquitous' most nearly means:

(A) widespread

(B) invisible

(C) expensive

(D) rare

Q9. Which best describes the relationship between the two passages?

(A) Complementary

(B) Unrelated

(C) Sequential

(D) Contradictory

Q10. The author's central claim is that:

(A) Innovation requires risk

(B) Technology is harmful

(C) Tradition is paramount

(D) Change is impossible

Q11. The author uses the metaphor to:

(A) illustrate complexity

(B) confuse readers

(C) add humor

(D) digress

Q12. The author's central claim is that:

(A) Change is impossible

(B) Tradition is paramount

(C) Technology is harmful

(D) Innovation requires risk

Q13. Which evidence best supports the author's claim?

(A) The conclusion

(B) The title

(C) Statistical data in paragraph 2

(D) The anecdote in paragraph 1

Q14. The author uses the metaphor to:

(A) illustrate complexity

(B) digress

(C) confuse readers

(D) add humor

Q15. According to the passage, the primary cause was:

(A) Social changes

(B) Natural disasters

(C) Economic factors

(D) Political decisions

Q16. The word 'pragmatic' most nearly means:

(A) idealistic

(B) theoretical

(C) emotional

(D) practical

Q17. The word 'pernicious' most nearly means:

(A) harmful

(B) neutral

(C) beneficial

(D) temporary

Q18. The primary purpose of the passage is to:

(A) describe a scene

(B) argue a position

(C) tell a story

(D) list facts

Q19. The author includes the example in paragraph 2 in order to:

(A) Create suspense

(B) Introduce a digression

(C) Refute a claim

(D) Support the thesis

Q20. Which choice most effectively combines the underlined sentences?

(A) Using 'and'

(B) Using 'but'

(C) Using a dash

(D) Using a semicolon

Q21. The author includes the example in paragraph 2 in order to:

(A) Introduce a digression

(B) Create suspense

(C) Support the thesis

(D) Refute a claim

Q22. Which sentence best summarizes the main idea?

(A) The topic sentence

(B) The first sentence

(C) None of these

(D) The last sentence

Q23. Which choice provides the most relevant detail?

(A) Option D: rhetorical question

(B) Option A: specific data

(C) Option B: general statement

(D) Option C: personal anecdote

Q24. The passage implies that the outcome was:

(A) Unexpected

(B) Desired

(C) Inevitable

(D) Irrelevant

Q25. The word 'ephemeral' most nearly means:

(A) mysterious

(B) short-lived

(C) powerful

(D) permanent

Q26. The word 'ameliorate' most nearly means:

(A) worsen

(B) maintain

(C) ignore

(D) improve

Q27. The word 'pernicious' most nearly means:

(A) beneficial

(B) temporary

(C) neutral

(D) harmful

Q28. The passage's organizational pattern is best described as:

(A) Cause and effect

(B) Compare and contrast

(C) Chronological

(D) Spatial

Q29. Which sentence best summarizes the main idea?

(A) The topic sentence

(B) The first sentence

(C) None of these

(D) The last sentence

Q30. The word 'equivocal' most nearly means:

(A) rapid

(B) gentle

(C) certain

(D) ambiguous

Q31. Which choice most effectively combines the underlined sentences?

(A) Using a dash

(B) Using 'but'

(C) Using a semicolon

(D) Using 'and'

Q32. In the passage, the author's tone can best be described as:

(A) hostile

(B) sarcastic

(C) analytical

(D) indifferent

Q33. The function of paragraph 3 is to:

(A) Provide a counterargument

(B) Conclude the essay

(C) Restate the thesis

(D) Introduce the topic

Q34. The primary purpose of the passage is to:

(A) describe a scene

(B) list facts

(C) argue a position

(D) tell a story

Q35. Which word best completes: 'The scientist's ____ approach led to groundbreaking discoveries.'

(A) reckless

(B) haphazard

(C) methodical

(D) timid

Q36. Which choice provides the most relevant detail?

(A) Option A: specific data

(B) Option C: personal anecdote

(C) Option B: general statement

(D) Option D: rhetorical question

Q37. Which transition would best connect sentences 3 and 4?

(A) Meanwhile

(B) Similarly

(C) Therefore

(D) However

Q38. Which evidence best supports the author's claim?

(A) Statistical data in paragraph 2

(B) The anecdote in paragraph 1

(C) The title

(D) The conclusion

Q39. The word 'equivocal' most nearly means:

(A) rapid

(B) gentle

(C) certain

(D) ambiguous

Q40. Which rhetorical device does the author employ in line 15?

(A) Hyperbole

(B) Alliteration

(C) Onomatopoeia

(D) Analogy

Q41. The author uses the metaphor to:

(A) digress

(B) add humor

(C) confuse readers

(D) illustrate complexity

Q42. Which best describes the relationship between the two passages?

(A) Unrelated

(B) Contradictory

(C) Sequential

(D) Complementary

Q43. Which sentence best summarizes the main idea?

(A) None of these

(B) The topic sentence

(C) The last sentence

(D) The first sentence

Q44. The function of paragraph 3 is to:

(A) Introduce the topic

(B) Conclude the essay

(C) Provide a counterargument

(D) Restate the thesis

Q45. According to the passage, the primary cause was:

(A) Natural disasters

(B) Economic factors

(C) Political decisions

(D) Social changes

Q46. The author includes the example in paragraph 2 in order to:

(A) Refute a claim

(B) Create suspense

(C) Support the thesis

(D) Introduce a digression

Q47. Which transition would best connect sentences 3 and 4?

(A) Meanwhile

(B) Similarly

(C) Therefore

(D) However

Q48. In the passage, the author's tone can best be described as:

(A) analytical

(B) sarcastic

(C) hostile

(D) indifferent

Q49. The passage implies that the outcome was:

(A) Inevitable

(B) Irrelevant

(C) Unexpected

(D) Desired

Q50. Which best describes the relationship between the two passages?

(A) Sequential

(B) Unrelated

(C) Contradictory

(D) Complementary

Q51. The word 'ephemeral' most nearly means:

(A) powerful

(B) permanent

(C) short-lived

(D) mysterious

Q52. The word 'ubiquitous' most nearly means:

(A) invisible

(B) rare

(C) expensive

(D) widespread

Q53. Which revision would most improve sentence clarity?

(A) Using passive voice

(B) Splitting into two sentences

(C) Removing the subject

(D) Adding more adjectives

Q54. Which choice provides the most relevant detail?

(A) Option B: general statement

(B) Option C: personal anecdote

(C) Option A: specific data

(D) Option D: rhetorical question

Section 2: Math (44 Questions)

Q55. The mean of a binomial distribution with n = 33 and p = 0.4 is:

(A) 34.6

(B) 5.8

(C) 15.0

(D) 9.2

Q56. The equation of tangent to y = x^4 at x = 2 is:

(A) y = 2x - 15

(B) y = 10x - 12

(C) y = 7x - 18

(D) y = 11x - 17

Q57. If z = 4 + 3i, then |z| =

(A) 8.31

(B) 2.03

(C) 8.66

(D) 8.92

Q58. The sum of first 48 terms of AP with a = 2, d = 3 is:

(A) 115

(B) 2476

(C) 1257

(D) 3866

Q59. The derivative of x^3 sin(x) at x = pi is:

(A) -13.31

(B) -10.26

(C) -16.41

(D) 10.74

Q60. The probability of getting exactly 3 heads in 6 tosses of a fair coin is:

(A) 48/256

(B) 5/256

(C) 17/32

(D) 24/256

Q61. If z = 4 + 5i, then |z| =

(A) 3.39

(B) 1.37

(C) 3.33

(D) 3.84

Q62. The mean of a binomial distribution with n = 30 and p = 0.8 is:

(A) 27.1

(B) 19.2

(C) 6.0

(D) 37.9

Q63. The number of ways to arrange 3 distinct objects in a circle is:

(A) 1516

(B) 393

(C) 4984

(D) 2903

Q64. The probability of getting exactly 3 heads in 7 tosses of a fair coin is:

(A) 31/128

(B) 9/32

(C) 8/128

(D) 14/128

Q65. The area under y = x^4 from x = 0 to x = 5 is:

(A) 67.1

(B) 167.3

(C) 64.8

(D) 99.5

Q66. The area under y = x^2 from x = 0 to x = 5 is:

(A) 178.6

(B) 94.0

(C) 155.4

(D) 155.2

Q67. lim(x->0) sin(2x)/x =

(A) 3

(B) 5

(C) 5

(D) 7

Q68. lim(x->0) sin(2x)/x =

(A) 7

(B) 4

(C) 1

(D) 6

Q69. The sum of first 33 terms of AP with a = 4, d = 2 is:

(A) 269

(B) 277

(C) 429

(D) 4508

Q70. The number of ways to arrange 5 distinct objects in a circle is:

(A) 146

(B) 705

(C) 1119

(D) 2903

Q71. If z = 2 + 1i, then |z| =

(A) 8.76

(B) 5.35

(C) 8.56

(D) 5.58

Q72. If det(A) = 2 and A is 3x3, then det(2A) =

(A) 19

(B) 53

(C) 56

(D) 54

Q73. If z = 4 + 1i, then |z| =

(A) 5.21

(B) 7.80

(C) 8.20

(D) 3.73

Q74. The sum of first 44 terms of AP with a = 3, d = 1 is:

(A) 3369

(B) 711

(C) 1026

(D) 306

Q75. The mean of a binomial distribution with n = 29 and p = 0.5 is:

(A) 26.5

(B) 28.2

(C) 25.9

(D) 33.2

Q76. If det(A) = 2 and A is 3x3, then det(2A) =

(A) 2

(B) 41

(C) 92

(D) 33

Q77. The rank of the matrix [[1,2,3],[4,5,6],[9,11,13]] is:

(A) 1

(B) 3

(C) 2

(D) 0

Q78. If z = 5 + 3i, then |z| =

(A) 1.22

(B) 1.97

(C) 8.92

(D) 5.01

Q79. Integral of (x^4 + 2) dx from 0 to 5 equals:

(A) 62

(B) 82

(C) 26

(D) 27

Q80. The eccentricity of the ellipse x^2/6 + y^2/13 = 1 is:

(A) 0.90

(B) 0.47

(C) 0.57

(D) 0.64

Q81. The rank of the matrix [[1,2,3],[4,5,6],[7,9,11]] is:

(A) 1

(B) 2

(C) 0

(D) 3

Q82. The probability of getting exactly 2 heads in 7 tosses of a fair coin is:

(A) 7/32

(B) 24/256

(C) 38/64

(D) 13/64

Q83. lim(x->0) sin(2x)/x =

(A) 7

(B) 5

(C) 4

(D) 5

Q84. The derivative of x^6 sin(x) at x = pi is:

(A) -2.29

(B) 17.13

(C) 3.39

(D) -3.63

Q85. The equation of tangent to y = x^3 at x = 3 is:

(A) y = 2x - 17

(B) y = 12x - 9

(C) y = 2x - 4

(D) y = 11x - 6

Q86. Integral of (x^4 + 9) dx from 0 to 1 equals:

(A) 34

(B) 40

(C) 30

(D) 47

Q87. The equation of tangent to y = x^4 at x = 3 is:

(A) y = 4x - 4

(B) y = 2x - 20

(C) y = 5x - 11

(D) y = 10x - 1

Q88. The area under y = x^2 from x = 0 to x = 2 is:

(A) 180.9

(B) 15.1

(C) 106.6

(D) 66.9

Q89. The mean of a binomial distribution with n = 31 and p = 0.5 is:

(A) 36.8

(B) 26.6

(C) 6.8

(D) 24.3

Q90. The distance between parallel lines 5x + 4y = 5 and 4x + 3y = 13 is:

(A) 3.06

(B) 0.53

(C) 0.84

(D) 3.34

Q91. The value of integral sin^2(x) dx from 0 to pi/2 is:

(A) 12pi/4

(B) 4pi/4

(C) 7pi/16

(D) 7pi/8

Q92. If det(A) = 10 and A is 3x3, then det(2A) =

(A) 19

(B) 68

(C) 69

(D) 60

Q93. The value of integral sin^2(x) dx from 0 to pi/2 is:

(A) 6pi/16

(B) 5pi/32

(C) 14pi/4

(D) 7pi/16

Q94. The distance between parallel lines 4x + 2y = 2 and 4x + 3y = 16 is:

(A) 1.50

(B) 1.65

(C) 2.18

(D) 4.99

Q95. The number of ways to arrange 5 distinct objects in a circle is:

(A) 1313

(B) 4382

(C) 1267

(D) 2129

Q96. The rank of the matrix [[1,2,3],[4,5,6],[7,9,12]] is:

(A) 2

(B) 0

(C) 3

(D) 1

Q97. The number of ways to arrange 8 distinct objects in a circle is:

(A) 3657

(B) 2214

(C) 3267

(D) 566

Q98. The derivative of x^5 sin(x) at x = pi is:

(A) -13.86

(B) 11.34

(C) 19.24

(D) 12.29

Answer Key

Q1: (B)	Q2: (B)	Q3: (C)	Q4: (A)	Q5: (C)
Q6: (B)	Q7: (B)	Q8: (A)	Q9: (A)	Q10: (A)
Q11: (A)	Q12: (D)	Q13: (C)	Q14: (A)	Q15: (C)
Q16: (D)	Q17: (A)	Q18: (B)	Q19: (D)	Q20: (D)
Q21: (C)	Q22: (B)	Q23: (B)	Q24: (A)	Q25: (B)
Q26: (D)	Q27: (D)	Q28: (A)	Q29: (B)	Q30: (D)
Q31: (C)	Q32: (C)	Q33: (A)	Q34: (C)	Q35: (C)
Q36: (A)	Q37: (D)	Q38: (A)	Q39: (D)	Q40: (D)
Q41: (D)	Q42: (D)	Q43: (D)	Q44: (C)	Q45: (B)
Q46: (C)	Q47: (D)	Q48: (A)	Q49: (C)	Q50: (D)
Q51: (C)	Q52: (D)	Q53: (B)	Q54: (C)	Q55: (D)
Q56: (B)	Q57: (D)	Q58: (C)	Q59: (C)	Q60: (D)
Q61: (B)	Q62: (B)	Q63: (A)	Q64: (D)	Q65: (A)
Q66: (D)	Q67: (B)	Q68: (B)	Q69: (B)	Q70: (C)
Q71: (D)	Q72: (A)	Q73: (D)	Q74: (B)	Q75: (D)
Q76: (A)	Q77: (C)	Q78: (A)	Q79: (D)	Q80: (B)
Q81: (B)	Q82: (C)	Q83: (B)	Q84: (C)	Q85: (A)
Q86: (C)	Q87: (B)	Q88: (A)	Q89: (C)	Q90: (D)
Q91: (A)	Q92: (C)	Q93: (D)	Q94: (C)	Q95: (B)
Q96: (A)	Q97: (B)	Q98: (B)		