SAT

Sample Question Paper - 2024

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. Which transition would best connect sentences 3 and 4?

(A) Similarly
(B) Therefore
(C) However
(D) Meanwhile

Q2. The author includes the example in paragraph 2 in order to:

(A) Introduce a digression
(B) Support the thesis
(C) Refute a claim
(D) Create suspense

Q3. The word 'pernicious' most nearly means:

(A) temporary
(B) neutral
(C) beneficial
(D) harmful

Q4. Which choice provides the most relevant detail?

(A) Option C: personal anecdote
(B) Option A: specific data
(C) Option D: rhetorical question
(D) Option B: general statement

Q5. The passage implies that the outcome was:

(A) Desired
(B) Inevitable
(C) Unexpected
(D) Irrelevant

Q6. The author's central claim is that:

(A) Technology is harmful

(B) Tradition is paramount

(C) Change is impossible

(D) Innovation requires risk

Q7. Which sentence best summarizes the main idea?

(A) None of these

(B) The last sentence

(C) The topic sentence

(D) The first sentence

Q8. The word 'pernicious' most nearly means:

(A) harmful

(B) neutral

(C) beneficial

(D) temporary

Q9. The passage implies that the outcome was:

(A) Unexpected

(B) Irrelevant

(C) Inevitable

(D) Desired

Q10. The function of paragraph 3 is to:

(A) Restate the thesis

(B) Provide a counterargument

(C) Introduce the topic

(D) Conclude the essay

Q11. The primary purpose of the passage is to:

(A) argue a position

(B) describe a scene

(C) list facts

(D) tell a story

Q12. In the passage, the author's tone can best be described as:

(A) analytical

(B) hostile

(C) sarcastic

(D) indifferent

Q13. The word 'equivocal' most nearly means:

(A) gentle

(B) certain

(C) rapid

(D) ambiguous

Q14. The passage's organizational pattern is best described as:

(A) Spatial

(B) Compare and contrast

(C) Chronological

(D) Cause and effect

Q15. Which transition would best connect sentences 3 and 4?

(A) Meanwhile

(B) Therefore

(C) Similarly

(D) However

Q16. Which best describes the relationship between the two passages?

(A) Complementary

(B) Sequential

(C) Unrelated

(D) Contradictory

Q17. The author includes the example in paragraph 2 in order to:

(A) Support the thesis

(B) Refute a claim

(C) Introduce a digression

(D) Create suspense

Q18. The author uses the metaphor to:

(A) confuse readers

(B) digress

(C) illustrate complexity

(D) add humor

Q19. The word 'pragmatic' most nearly means:

(A) practical

(B) idealistic

(C) theoretical

(D) emotional

Q20. Which evidence best supports the author's claim?

(A) Statistical data in paragraph 2

(B) The anecdote in paragraph 1

(C) The conclusion

(D) The title

Q21. The word 'ephemeral' most nearly means:

(A) powerful

(B) permanent

(C) short-lived

(D) mysterious

Q22. The word 'ameliorate' most nearly means:

(A) ignore

(B) maintain

(C) improve

(D) worsen

Q23. In the passage, the author's tone can best be described as:

(A) sarcastic

(B) analytical

(C) indifferent

(D) hostile

Q24. In the passage, the author's tone can best be described as:

(A) sarcastic

(B) hostile

(C) indifferent

(D) analytical

Q25. Which rhetorical device does the author employ in line 15?

(A) Onomatopoeia

(B) Hyperbole

(C) Alliteration

(D) Analogy

Q26. The passage implies that the outcome was:

(A) Irrelevant

(B) Desired

(C) Inevitable

(D) Unexpected

Q27. The primary purpose of the passage is to:

(A) list facts

(B) argue a position

(C) tell a story

(D) describe a scene

Q28. The word 'ameliorate' most nearly means:

(A) maintain

(B) ignore

(C) worsen

(D) improve

Q29. The word 'ephemeral' most nearly means:

(A) powerful

(B) permanent

(C) mysterious

(D) short-lived

Q30. The passage's organizational pattern is best described as:

(A) Chronological

(B) Cause and effect

(C) Spatial

(D) Compare and contrast

Q31. The word 'ubiquitous' most nearly means:

(A) widespread

(B) rare

(C) invisible

(D) expensive

Q32. The passage's organizational pattern is best described as:

(A) Chronological

(B) Cause and effect

(C) Spatial

(D) Compare and contrast

Q33. The passage's organizational pattern is best described as:

(A) Chronological

(B) Cause and effect

(C) Compare and contrast

(D) Spatial

Q34. The author's central claim is that:

(A) Tradition is paramount

(B) Technology is harmful

(C) Change is impossible

(D) Innovation requires risk

Q35. The word 'ubiquitous' most nearly means:

(A) rare

(B) invisible

(C) expensive

(D) widespread

Q36. The author uses the metaphor to:

(A) add humor

(B) illustrate complexity

(C) digress

(D) confuse readers

Q37. Which choice most effectively combines the underlined sentences?

(A) Using a semicolon

(B) Using 'and'

(C) Using a dash

(D) Using 'but'

Q38. The word 'ubiquitous' most nearly means:

(A) expensive

(B) widespread

(C) invisible

(D) rare

Q39. The function of paragraph 3 is to:

(A) Conclude the essay

(B) Restate the thesis

(C) Provide a counterargument

(D) Introduce the topic

Q40. Which best describes the relationship between the two passages?

(A) Sequential

(B) Contradictory

(C) Unrelated

(D) Complementary

Q41. Which choice provides the most relevant detail?

(A) Option C: personal anecdote

(B) Option D: rhetorical question

(C) Option A: specific data

(D) Option B: general statement

Q42. The word 'ubiquitous' most nearly means:

(A) widespread

(B) rare

(C) expensive

(D) invisible

Q43. Which best describes the relationship between the two passages?

(A) Sequential

(B) Complementary

(C) Unrelated

(D) Contradictory

Q44. The word 'pernicious' most nearly means:

(A) temporary

(B) beneficial

(C) harmful

(D) neutral

Q45. The function of paragraph 3 is to:

(A) Provide a counterargument

(B) Restate the thesis

(C) Introduce the topic

(D) Conclude the essay

Q46. The word 'equivocal' most nearly means:

(A) rapid

(B) certain

(C) gentle

(D) ambiguous

Q47. Which choice most effectively combines the underlined sentences?

(A) Using a semicolon

(B) Using 'and'

(C) Using a dash

(D) Using 'but'

Q48. The graph supports which claim from the passage?

(A) Neither claim

(B) Claim in paragraph 3

(C) Both claims

(D) Claim in paragraph 1

Q49. Which transition would best connect sentences 3 and 4?

(A) Meanwhile

(B) Therefore

(C) However

(D) Similarly

Q50. The word 'ameliorate' most nearly means:

(A) ignore

(B) improve

(C) maintain

(D) worsen

Q51. Which evidence best supports the author's claim?

(A) The anecdote in paragraph 1

(B) The title

(C) The conclusion

(D) Statistical data in paragraph 2

Q52. The word 'pragmatic' most nearly means:

(A) practical

(B) theoretical

(C) emotional

(D) idealistic

Q53. In the passage, the author's tone can best be described as:

(A) hostile

(B) analytical

(C) sarcastic

(D) indifferent

Q54. Which word best completes: 'The scientist's ____ approach led to groundbreaking discoveries.'

(A) haphazard

(B) methodical

(C) timid

(D) reckless

Section 2: Math (44 Questions)

Q55. The area under y = x^3 from x = 0 to x = 4 is:

(A) 177.0

(B) 113.9

(C) 89.1

(D) 100.4

Q56. The mean of a binomial distribution with n = 29 and p = 0.5 is:

(A) 33.2

(B) 25.9

(C) 28.2

(D) 26.5

Q57. The probability of getting exactly 3 heads in 8 tosses of a fair coin is:

(A) 35/32

(B) 11/64

(C) 39/128

(D) 46/128

Q58. lim(x->0) sin(4x)/x =

(A) 5

(B) 1

(C) 2

(D) 5

Q59. The derivative of x^6 sin(x) at x = pi is:

(A) -2.29

(B) -3.63

(C) 17.13

(D) 3.39

Q60. The equation of tangent to y = x^3 at x = 2 is:

(A) y = 5x - 4

(B) y = 10x - 7

(C) y = 3x - 4

(D) y = 8x - 5

Q61. The rank of the matrix [[1,2,3],[4,5,6],[7,9,11]] is:

(A) 0

(B) 3

(C) 2

(D) 1

Q62. The mean of a binomial distribution with n = 25 and p = 0.7 is:

(A) 12.4

(B) 15.4

(C) 36.9

(D) 24.5

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

(A) 4984

(B) 1516

(C) 2903

(D) 393

Q64. The area under y = x^3 from x = 0 to x = 2 is:

(A) 62.2

(B) 68.4

(C) 170.5

(D) 167.6

Q65. The equation of tangent to y = x^3 at x = 3 is:

(A) y = 11x - 6

(B) y = 2x - 17

(C) y = 12x - 9

(D) y = 2x - 4

Q66. The rank of the matrix [[1,2,3],[4,5,6],[7,9,11]] is:

(A) 3

(B) 1

(C) 0

(D) 2

Q67. The derivative of x^6 sin(x) at x = pi is:

(A) 2.15

(B) 13.85

(C) 7.16

(D) -14.17

Q68. The value of integral sin^6(x) dx from 0 to pi/2 is:

(A) 12pi/16

(B) 3pi/16

(C) 15pi/16

(D) 10pi/8

Q69. The rank of the matrix [[1,2,3],[4,5,6],[7,9,12]] is:

(A) 1

(B) 3

(C) 0

(D) 2

Q70. The rank of the matrix [[1,2,3],[4,5,6],[9,11,13]] is:

(A) 0

(B) 3

(C) 1

(D) 2

Q71. The derivative of x^4 sin(x) at x = pi is:

(A) 19.14

(B) -10.51

(C) 15.33

(D) 0.64

Q72. lim(x->0) sin(2x)/x =

(A) 5

(B) 4

(C) 7

(D) 5

Q73. The sum of first 37 terms of AP with a = 5, d = 3 is:

(A) 3930

(B) 4888

(C) 2925

(D) 1632

Q74. 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

Q75. The number of ways to arrange 5 distinct objects in a circle is:

(A) 1313

(B) 1267

(C) 2129

(D) 4382

Q76. If det(A) = 6 and A is 3x3, then det(2A) =

(A) 72

(B) 66

(C) 75

(D) 54

Q77. The distance between parallel lines 3x + 4y = 1 and 2x + 2y = 11 is:

(A) 1.47

(B) 0.52

(C) 4.50

(D) 4.84

Q78. The sum of first 44 terms of AP with a = 3, d = 1 is:

(A) 306

(B) 711

(C) 3369

(D) 1026

Q79. If z = 4 + 1i, then |z| =

(A) 7.80

(B) 5.21

(C) 8.20

(D) 3.73

Q80. Integral of (x^1 + 3) dx from 0 to 5 equals:

(A) 5

(B) 63

(C) 22

(D) 100

Q81. The equation of tangent to y = x^4 at x = 1 is:

(A) y = 5x - 4

(B) y = 2x - 3

(C) y = 11x - 18

(D) y = 4x - 19

Q82. The sum of first 22 terms of AP with a = 1, d = 2 is:

(A) 545

(B) 410

(C) 160

(D) 2338

Q83. The mean of a binomial distribution with n = 33 and p = 0.4 is:

(A) 9.2

(B) 15.0

(C) 5.8

(D) 34.6

Q84. The value of integral sin^2(x) dx from 0 to pi/2 is:

(A) 14pi/4

(B) 7pi/16

(C) 5pi/32

(D) 6pi/16

Q85. The mean of a binomial distribution with n = 30 and p = 0.8 is:

(A) 27.1

(B) 19.2

(C) 37.9

(D) 6.0

Q86. The equation of tangent to y = x^4 at x = 2 is:

(A) y = 11x - 18

(B) y = 4x - 10

(C) y = 4x - 11

(D) y = 3x - 13

Q87. The derivative of x^6 sin(x) at x = pi is:

(A) 1.41

(B) -7.83

(C) -11.01

(D) -19.72

Q88. The equation of tangent to y = x^4 at x = 2 is:

(A) y = 11x - 17

(B) y = 2x - 15

(C) y = 10x - 12

(D) y = 7x - 18

Q89. The distance between parallel lines 4x + 2y = 2 and 4x + 3y = 16 is:

(A) 4.99

(B) 1.50

(C) 2.18

(D) 1.65

Q90. The derivative of x^5 sin(x) at x = pi is:

(A) 19.24

(B) -13.86

(C) 12.29

(D) 11.34

Q91. The probability of getting exactly 4 heads in 8 tosses of a fair coin is:

(A) 45/64

(B) 18/64

(C) 46/64

(D) 37/64

Q92. Integral of (x^4 + 5) dx from 0 to 3 equals:

(A) 91

(B) 8

(C) 54

(D) 23

Q93. If det(A) = 2 and A is 3x3, then det(2A) =

(A) 54

(B) 53

(C) 56

(D) 19

Q94. lim(x->0) sin(4x)/x =

(A) 4

(B) 1

(C) 7

(D) 4

Q95. The value of integral sin^6(x) dx from 0 to pi/2 is:

(A) 7pi/32

(B) 7pi/4

(C) 9pi/8

(D) 9pi/32

Q96. lim(x->0) sin(2x)/x =

(A) 7

(B) 6

(C) 1

(D) 4

Q97. The number of ways to arrange 5 distinct objects in a circle is:

(A) 3502

(B) 2719

(C) 4413

(D) 4417

Q98. If z = 2 + 1i, then |z| =

(A) 5.35

(B) 8.56

(C) 5.58

(D) 8.76

Answer Key

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