

# ACT

## Sample Question Paper - 2026

Country: US | Duration: 2h 55m | Max Marks: 36 (composite) | Language: English

Negative Marking: No | Total Questions: 215 | QuizVerse AI Tutor

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### General Instructions:

1. This paper contains 215 questions across 4 section(s): English, Math, Reading, Science.
2. Duration: 2h 55m. Maximum marks: 36 (composite).
3. Negative marking: No.
4. Read each question carefully before answering.

### Section 1: English (75 Questions)

#### Q1. The author uses the metaphor to:

- (A) confuse readers
- (B) illustrate complexity
- (C) add humor
- (D) digress

#### Q2. In the passage, the author's tone can best be described as:

- (A) analytical
- (B) sarcastic
- (C) hostile
- (D) indifferent

#### Q3. The word 'ameliorate' most nearly means:

- (A) worsen
- (B) improve
- (C) maintain
- (D) ignore

#### Q4. The word 'ameliorate' most nearly means:

- (A) worsen
- (B) ignore
- (C) maintain
- (D) improve

#### Q5. Which evidence best supports the author's claim?

- (A) The conclusion
- (B) Statistical data in paragraph 2
- (C) The title
- (D) The anecdote in paragraph 1

**Q6. Which choice provides the most relevant detail?**

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

**Q7. The word 'pernicious' most nearly means:**

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

**Q8. Which transition would best connect sentences 3 and 4?**

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

**Q9. According to the passage, the primary cause was:**

- (A) Natural disasters
- (B) Social changes
- (C) Economic factors
- (D) Political decisions

**Q10. Which transition would best connect sentences 3 and 4?**

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

**Q11. The word 'pernicious' most nearly means:**

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

**Q12. According to the passage, the primary cause was:**

- (A) Political decisions
- (B) Economic factors
- (C) Social changes
- (D) Natural disasters

**Q13. The word 'ameliorate' most nearly means:**

- (A) worsen
- (B) improve
- (C) ignore
- (D) maintain

**Q14. The word 'ubiquitous' most nearly means:**

- (A) widespread
- (B) invisible
- (C) rare
- (D) expensive

**Q15. The word 'equivocal' most nearly means:**

- (A) certain
- (B) gentle
- (C) rapid
- (D) ambiguous

**Q16. The author uses the metaphor to:**

- (A) add humor
- (B) illustrate complexity
- (C) digress
- (D) confuse readers

**Q17. The word 'ubiquitous' most nearly means:**

- (A) expensive
- (B) widespread
- (C) invisible
- (D) rare

**Q18. The passage's organizational pattern is best described as:**

- (A) Cause and effect
- (B) Compare and contrast
- (C) Spatial
- (D) Chronological

**Q19. Which best describes the relationship between the two passages?**

- (A) Unrelated
- (B) Sequential
- (C) Complementary
- (D) Contradictory

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

- (A) The title
- (B) The conclusion
- (C) Statistical data in paragraph 2
- (D) The anecdote in paragraph 1

**Q21. Which evidence best supports the author's claim?**

- (A) Statistical data in paragraph 2
- (B) The conclusion
- (C) The anecdote in paragraph 1
- (D) The title

**Q22. The author includes the example in paragraph 2 in order to:**

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

**Q23. According to the passage, the primary cause was:**

- (A) Social changes
- (B) Economic factors
- (C) Natural disasters
- (D) Political decisions

**Q24. Which word best completes: 'The scientist's \_\_\_\_ approach led to groundbreaking discoveries.'**

- (A) methodical
- (B) timid
- (C) reckless
- (D) haphazard

**Q25. Which choice most effectively combines the underlined sentences?**

- (A) Using 'and'
- (B) Using a semicolon
- (C) Using a dash
- (D) Using 'but'

**Q26. Which word best completes: 'The scientist's \_\_\_\_ approach led to groundbreaking discoveries.'**

- (A) timid
- (B) reckless
- (C) haphazard
- (D) methodical

**Q27. The word 'pernicious' most nearly means:**

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

**Q28. Which revision would most improve sentence clarity?**

- (A) Using passive voice
- (B) Splitting into two sentences
- (C) Removing the subject
- (D) Adding more adjectives

**Q29. Which word best completes: 'The scientist's \_\_\_\_ approach led to groundbreaking discoveries.'**

- (A) reckless
- (B) haphazard
- (C) timid
- (D) methodical

**Q30. 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

**Q31. The word 'pernicious' most nearly means:**

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

**Q32. The author's central claim is that:**

- (A) Tradition is paramount
- (B) Change is impossible
- (C) Technology is harmful
- (D) Innovation requires risk

**Q33. Which choice most effectively combines the underlined sentences?**

- (A) Using 'but'
- (B) Using 'and'
- (C) Using a dash
- (D) Using a semicolon

**Q34. The word 'ephemeral' most nearly means:**

- (A) powerful
- (B) permanent
- (C) short-lived
- (D) mysterious

**Q35. The word 'ephemeral' most nearly means:**

- (A) powerful
- (B) short-lived
- (C) mysterious
- (D) permanent

**Q36. Which revision would most improve sentence clarity?**

- (A) Splitting into two sentences
- (B) Adding more adjectives
- (C) Using passive voice
- (D) Removing the subject

**Q37. The word 'pragmatic' most nearly means:**

- (A) practical
- (B) emotional
- (C) idealistic
- (D) theoretical

**Q38. Which rhetorical device does the author employ in line 15?**

- (A) Analogy
- (B) Hyperbole
- (C) Onomatopoeia
- (D) Alliteration

**Q39. In the passage, the author's tone can best be described as:**

- (A) indifferent
- (B) sarcastic
- (C) analytical
- (D) hostile

**Q40. The word 'ubiquitous' most nearly means:**

- (A) widespread
- (B) expensive
- (C) invisible
- (D) rare

**Q41. The passage implies that the outcome was:**

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

**Q42. The word 'equivocal' most nearly means:**

- (A) gentle
- (B) rapid
- (C) ambiguous
- (D) certain

**Q43. The function of paragraph 3 is to:**

- (A) Introduce the topic
- (B) Conclude the essay
- (C) Restate the thesis
- (D) Provide a counterargument

**Q44. Which sentence best summarizes the main idea?**

- (A) The topic sentence
- (B) The last sentence
- (C) The first sentence
- (D) None of these

**Q45. The word 'ephemeral' most nearly means:**

- (A) mysterious
- (B) powerful
- (C) permanent
- (D) short-lived

**Q46. The word 'ameliorate' most nearly means:**

- (A) worsen
- (B) improve
- (C) maintain
- (D) ignore

**Q47. The graph supports which claim from the passage?**

- (A) Claim in paragraph 3
- (B) Neither claim
- (C) Claim in paragraph 1
- (D) Both claims

**Q48. 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

**Q49. Which rhetorical device does the author employ in line 15?**

- (A) Hyperbole
- (B) Onomatopoeia
- (C) Analogy
- (D) Alliteration

**Q50. The function of paragraph 3 is to:**

- (A) Restate the thesis
- (B) Conclude the essay
- (C) Provide a counterargument
- (D) Introduce the topic

**Q51. Which word best completes: 'The scientist's \_\_\_\_ approach led to groundbreaking discoveries.'**

- (A) timid
- (B) methodical
- (C) reckless
- (D) haphazard

**Q52. The primary purpose of the passage is to:**

- (A) list facts
- (B) argue a position
- (C) describe a scene
- (D) tell a story

**Q53. The passage implies that the outcome was:**

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

**Q54. Which sentence best summarizes the main idea?**

- (A) The last sentence
- (B) The topic sentence
- (C) The first sentence
- (D) None of these

**Q55. The word 'ubiquitous' most nearly means:**

- (A) invisible
- (B) expensive
- (C) rare
- (D) widespread

**Q56. The word 'pernicious' most nearly means:**

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

**Q57. The word 'pragmatic' most nearly means:**

- (A) emotional
- (B) theoretical
- (C) idealistic
- (D) practical

**Q58. Which sentence best summarizes the main idea?**

- (A) The topic sentence
- (B) The last sentence
- (C) The first sentence
- (D) None of these

**Q59. The author's central claim is that:**

- (A) Innovation requires risk
- (B) Tradition is paramount
- (C) Technology is harmful
- (D) Change is impossible

**Q60. The word 'equivocal' most nearly means:**

- (A) gentle
- (B) certain
- (C) ambiguous
- (D) rapid

**Q61. The word 'ameliorate' most nearly means:**

- (A) ignore
- (B) maintain
- (C) improve
- (D) worsen

**Q62. Which revision would most improve sentence clarity?**

- (A) Adding more adjectives
- (B) Splitting into two sentences
- (C) Using passive voice
- (D) Removing the subject

**Q63. Which rhetorical device does the author employ in line 15?**

- (A) Analogy
- (B) Alliteration
- (C) Onomatopoeia
- (D) Hyperbole

**Q64. The graph supports which claim from the passage?**

- (A) Neither claim
- (B) Claim in paragraph 3
- (C) Claim in paragraph 1
- (D) Both claims

**Q65. Which transition would best connect sentences 3 and 4?**

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

**Q66. According to the passage, the primary cause was:**

- (A) Natural disasters
- (B) Economic factors
- (C) Political decisions
- (D) Social changes

**Q67. Which transition would best connect sentences 3 and 4?**

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

**Q68. The author uses the metaphor to:**

- (A) add humor
- (B) illustrate complexity
- (C) digress
- (D) confuse readers

**Q69. Which revision would most improve sentence clarity?**

- (A) Using passive voice
- (B) Adding more adjectives
- (C) Splitting into two sentences
- (D) Removing the subject

**Q70. The function of paragraph 3 is to:**

- (A) Introduce the topic
- (B) Conclude the essay
- (C) Provide a counterargument
- (D) Restate the thesis

**Q71. The primary purpose of the passage is to:**

- (A) argue a position
- (B) list facts
- (C) tell a story
- (D) describe a scene

**Q72. The graph supports which claim from the passage?**

- (A) Claim in paragraph 3
- (B) Both claims
- (C) Claim in paragraph 1
- (D) Neither claim

**Q73. The passage implies that the outcome was:**

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

**Q74. The word 'ameliorate' most nearly means:**

- (A) ignore
- (B) worsen
- (C) maintain
- (D) improve

**Q75. Which choice provides the most relevant detail?**

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

## Section 2: Math (60 Questions)

**Q76. The eccentricity of the ellipse  $x^2/21 + y^2/15 = 1$  is:**

- (A) 0.71
- (B) 0.75
- (C) 0.82
- (D) 0.87

**Q77. The mean of a binomial distribution with  $n = 45$  and  $p = 0.6$  is:**

- (A) 26.0
- (B) 7.6
- (C) 36.6
- (D) 22.8

**Q78. The derivative of  $x^2 \sin(x)$  at  $x = \pi$  is:**

- (A) -16.24
- (B) 10.25
- (C) -14.79
- (D) 17.99

**Q79. Integral of  $(x^3 + 5) dx$  from 0 to 3 equals:**

- (A) 75
- (B) 26
- (C) 60
- (D) 90

**Q80. If  $\det(A) = 8$  and  $A$  is  $3 \times 3$ , then  $\det(2A) =$**

- (A) 87
- (B) 49
- (C) 100
- (D) 50

**Q81. The probability of getting exactly 3 heads in 7 tosses of a fair coin is:**

- (A)  $26/64$
- (B)  $41/256$
- (C)  $19/64$
- (D)  $36/64$

**Q82. Integral of  $(x^3 + 6) dx$  from 0 to 2 equals:**

- (A) 38
- (B) 41
- (C) 59
- (D) 36

**Q83. The mean of a binomial distribution with  $n = 27$  and  $p = 0.5$  is:**

- (A) 4.8
- (B) 33.5
- (C) 11.7
- (D) 40.0

**Q84. If  $z = 1 + 4i$ , then  $|z| =$**

- (A) 6.70
- (B) 6.93
- (C) 4.55
- (D) 2.76

**Q85. If  $\det(A) = 5$  and  $A$  is  $3 \times 3$ , then  $\det(2A) =$**

- (A) 37
- (B) 33
- (C) 76
- (D) 18

**Q86. Integral of  $(x^2 + 3)$  dx from 0 to 1 equals:**

- (A) 69
- (B) 94
- (C) 30
- (D) 3

**Q87. The rank of the matrix  $\begin{bmatrix} 1,2,3 \\ 4,5,6 \\ 9,9,11 \end{bmatrix}$  is:**

- (A) 0
- (B) 3
- (C) 2
- (D) 1

**Q88. The probability of getting exactly 3 heads in 6 tosses of a fair coin is:**

- (A)  $44/256$
- (B)  $14/32$
- (C)  $8/128$
- (D)  $9/256$

**Q89. The equation of tangent to  $y = x^3$  at  $x = 3$  is:**

- (A)  $y = 11x - 6$
- (B)  $y = 10x - 18$
- (C)  $y = 3x - 4$
- (D)  $y = 3x - 11$

**Q90. Integral of  $(x^4 + 6)$  dx from 0 to 5 equals:**

- (A) 66
- (B) 50
- (C) 14
- (D) 44

**Q91. The probability of getting exactly 3 heads in 6 tosses of a fair coin is:**

- (A)  $4/128$
- (B)  $2/64$
- (C)  $39/128$
- (D)  $21/256$

**Q92. The area under  $y = x^3$  from  $x = 0$  to  $x = 4$  is:**

- (A) 169.4
- (B) 28.7
- (C) 175.0
- (D) 64.4

**Q93. The number of ways to arrange 4 distinct objects in a circle is:**

- (A) 3419
- (B) 4711
- (C) 1305
- (D) 2855

**Q94. If  $\det(A) = 6$  and  $A$  is  $3 \times 3$ , then  $\det(2A) =$**

- (A) 62
- (B) 70
- (C) 58
- (D) 98

**Q95. The area under  $y = x^4$  from  $x = 0$  to  $x = 2$  is:**

- (A) 100.1
- (B) 192.7
- (C) 174.8
- (D) 87.1

**Q96. Integral of  $(x^2 + 5) dx$  from 0 to 2 equals:**

- (A) 9
- (B) 36
- (C) 83
- (D) 68

**Q97. The equation of tangent to  $y = x^3$  at  $x = 1$  is:**

- (A)  $y = 4x - 12$
- (B)  $y = 6x - 6$
- (C)  $y = 3x - 3$
- (D)  $y = 6x - 19$

**Q98.  $\lim_{x \rightarrow 0} \sin(5x)/x =$**

- (A) 6
- (B) 7
- (C) 6
- (D) 7

**Q99.  $\lim_{x \rightarrow 0} \sin(4x)/x =$**

- (A) 7
- (B) 1
- (C) 1
- (D) 1

**Q100. The number of ways to arrange 8 distinct objects in a circle is:**

- (A) 3315
- (B) 334
- (C) 983
- (D) 635

**Q101. The derivative of  $x^2 \sin(x)$  at  $x = \pi$  is:**

- (A) -2.55
- (B) -7.74
- (C) -17.58
- (D) 6.11

**Q102. The eccentricity of the ellipse  $x^2/16 + y^2/5 = 1$  is:**

- (A) 0.41
- (B) 0.84
- (C) 0.61
- (D) 0.72

**Q103. The sum of first 34 terms of AP with  $a = 2$ ,  $d = 1$  is:**

- (A) 2810
- (B) 265
- (C) 3994
- (D) 1993

**Q104. The rank of the matrix  $\begin{bmatrix} 1,2,3 \\ 4,5,6 \\ 8,11,10 \end{bmatrix}$  is:**

- (A) 2
- (B) 3
- (C) 1
- (D) 0

**Q105. Integral of  $(x^3 + 6)$  dx from 0 to 1 equals:**

- (A) 49
- (B) 95
- (C) 48
- (D) 18

**Q106. The number of ways to arrange 5 distinct objects in a circle is:**

- (A) 3464
- (B) 1134
- (C) 1520
- (D) 3544

**Q107. If  $z = 1 + 4i$ , then  $|z| =$**

- (A) 9.04
- (B) 9.83
- (C) 2.64
- (D) 1.62

**Q108. The distance between parallel lines  $5x + 2y = 9$  and  $3x + 4y = 20$  is:**

- (A) 4.27
- (B) 3.68
- (C) 1.29
- (D) 4.60

**Q109. The distance between parallel lines  $4x + 3y = 7$  and  $4x + 5y = 11$  is:**

- (A) 4.38
- (B) 4.31
- (C) 1.51
- (D) 1.33

**Q110. If  $\det(A) = 10$  and  $A$  is  $3 \times 3$ , then  $\det(2A) =$**

- (A) 2
- (B) 54
- (C) 4
- (D) 18

**Q111. The eccentricity of the ellipse  $x^2/25 + y^2/3 = 1$  is:**

- (A) 0.52
- (B) 0.70
- (C) 0.32
- (D) 0.45

**Q112. The distance between parallel lines  $4x + 5y = 10$  and  $3x + 2y = 15$  is:**

- (A) 3.17
- (B) 3.07
- (C) 2.06
- (D) 3.69

**Q113. The sum of first 23 terms of AP with  $a = 5$ ,  $d = 1$  is:**

- (A) 2162
- (B) 4013
- (C) 351
- (D) 928

**Q114. The mean of a binomial distribution with  $n = 30$  and  $p = 0.4$  is:**

- (A) 18.9
- (B) 20.2
- (C) 21.4
- (D) 3.2

**Q115. The equation of tangent to  $y = x^4$  at  $x = 2$  is:**

- (A)  $y = 6x - 7$
- (B)  $y = 11x - 7$
- (C)  $y = 11x - 6$
- (D)  $y = 3x - 11$

**Q116. The value of integral  $\sin^4(x) dx$  from 0 to  $\pi/2$  is:**

- (A)  $5\pi/4$
- (B)  $9\pi/16$
- (C)  $15\pi/16$
- (D)  $3\pi/8$

**Q117. The eccentricity of the ellipse  $x^2/23 + y^2/14 = 1$  is:**

- (A) 0.55
- (B) 0.89
- (C) 0.81
- (D) 0.48

**Q118. The rank of the matrix  $\begin{bmatrix} 1,2,3 \\ 4,5,6 \\ 7,10,13 \end{bmatrix}$  is:**

- (A) 0
- (B) 1
- (C) 2
- (D) 3

**Q119. The eccentricity of the ellipse  $x^2/23 + y^2/8 = 1$  is:**

- (A) 0.40
- (B) 0.57
- (C) 0.42
- (D) 0.30

**Q120. The mean of a binomial distribution with  $n = 17$  and  $p = 0.8$  is:**

- (A) 21.2
- (B) 20.7
- (C) 33.0
- (D) 34.5

**Q121. The value of integral  $\sin^2(x) dx$  from 0 to  $\pi/2$  is:**

- (A)  $14\pi/4$
- (B)  $8\pi/16$
- (C)  $3\pi/4$
- (D)  $4\pi/4$

**Q122.  $\lim_{x \rightarrow 0} \sin(4x)/x =$**

- (A) 4
- (B) 3
- (C) 2
- (D) 2

**Q123. The area under  $y = x^3$  from  $x = 0$  to  $x = 5$  is:**

- (A) 152.4
- (B) 168.1
- (C) 66.6
- (D) 49.3

**Q124. Integral of  $(x^1 + 1) dx$  from 0 to 4 equals:**

- (A) 71
- (B) 15
- (C) 43
- (D) 46

**Q125. If  $\det(A) = 3$  and  $A$  is  $3 \times 3$ , then  $\det(2A) =$**

- (A) 56
- (B) 28
- (C) 60
- (D) 48

**Q126.**  $\lim_{x \rightarrow 0} \sin(2x)/x =$

- (A) 4
- (B) 4
- (C) 6
- (D) 4

**Q127.** The probability of getting exactly 4 heads in 8 tosses of a fair coin is:

- (A)  $17/64$
- (B)  $6/128$
- (C)  $21/128$
- (D)  $18/32$

**Q128.** The distance between parallel lines  $2x + 2y = 1$  and  $5x + 2y = 11$  is:

- (A) 2.50
- (B) 2.40
- (C) 1.29
- (D) 1.23

**Q129.** The distance between parallel lines  $2x + 5y = 8$  and  $3x + 3y = 12$  is:

- (A) 3.86
- (B) 3.63
- (C) 1.43
- (D) 3.09

**Q130.** The mean of a binomial distribution with  $n = 22$  and  $p = 0.4$  is:

- (A) 12.1
- (B) 26.8
- (C) 28.5
- (D) 31.6

**Q131.** The rank of the matrix  $[[1,2,3],[4,5,6],[9,10,11]]$  is:

- (A) 1
- (B) 0
- (C) 2
- (D) 3

**Q132.** The sum of first 50 terms of AP with  $a = 2$ ,  $d = 2$  is:

- (A) 2461
- (B) 1154
- (C) 1464
- (D) 4637

**Q133.** The sum of first 46 terms of AP with  $a = 2$ ,  $d = 4$  is:

- (A) 4766
- (B) 4165
- (C) 3787
- (D) 788

**Q134. The probability of getting exactly 2 heads in 8 tosses of a fair coin is:**

- (A)  $22/128$
- (B)  $48/64$
- (C)  $44/256$
- (D)  $22/256$

**Q135. The probability of getting exactly 2 heads in 8 tosses of a fair coin is:**

- (A)  $11/128$
- (B)  $50/32$
- (C)  $22/128$
- (D)  $7/256$

### Section 3: Reading (40 Questions)

**Q136. Which revision would most improve sentence clarity?**

- (A) Removing the subject
- (B) Using passive voice
- (C) Splitting into two sentences
- (D) Adding more adjectives

**Q137. Which choice provides the most relevant detail?**

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

**Q138. The author's central claim is that:**

- (A) Innovation requires risk
- (B) Change is impossible
- (C) Technology is harmful
- (D) Tradition is paramount

**Q139. Which sentence best summarizes the main idea?**

- (A) The last sentence
- (B) The first sentence
- (C) The topic sentence
- (D) None of these

**Q140. The graph supports which claim from the passage?**

- (A) Neither claim
- (B) Claim in paragraph 1
- (C) Both claims
- (D) Claim in paragraph 3

**Q141. The word 'equivocal' most nearly means:**

- (A) ambiguous
- (B) certain
- (C) rapid
- (D) gentle

**Q142. The word 'ameliorate' most nearly means:**

- (A) improve
- (B) worsen
- (C) maintain
- (D) ignore

**Q143. Which best describes the relationship between the two passages?**

- (A) Unrelated
- (B) Sequential
- (C) Complementary
- (D) Contradictory

**Q144. According to the passage, the primary cause was:**

- (A) Social changes
- (B) Economic factors
- (C) Natural disasters
- (D) Political decisions

**Q145. The author includes the example in paragraph 2 in order to:**

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

**Q146. Which word best completes: 'The scientist's \_\_\_\_ approach led to groundbreaking discoveries.'**

- (A) timid
- (B) reckless
- (C) methodical
- (D) haphazard

**Q147. The author includes the example in paragraph 2 in order to:**

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

**Q148. The word 'pernicious' most nearly means:**

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

**Q149. The word 'pragmatic' most nearly means:**

- (A) practical
- (B) emotional
- (C) idealistic
- (D) theoretical

**Q150. The word 'ubiquitous' most nearly means:**

- (A) widespread
- (B) invisible
- (C) expensive
- (D) rare

**Q151. The word 'pragmatic' most nearly means:**

- (A) theoretical
- (B) emotional
- (C) practical
- (D) idealistic

**Q152. The passage implies that the outcome was:**

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

**Q153. Which revision would most improve sentence clarity?**

- (A) Splitting into two sentences
- (B) Removing the subject
- (C) Adding more adjectives
- (D) Using passive voice

**Q154. Which choice most effectively combines the underlined sentences?**

- (A) Using a dash
- (B) Using a semicolon
- (C) Using 'and'
- (D) Using 'but'

**Q155. The word 'pernicious' most nearly means:**

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

**Q156. Which best describes the relationship between the two passages?**

- (A) Unrelated
- (B) Contradictory
- (C) Sequential
- (D) Complementary

**Q157. The word 'ameliorate' most nearly means:**

- (A) worsen
- (B) maintain
- (C) ignore
- (D) improve

**Q158. In the passage, the author's tone can best be described as:**

- (A) indifferent
- (B) hostile
- (C) sarcastic
- (D) analytical

**Q159. In the passage, the author's tone can best be described as:**

- (A) sarcastic
- (B) analytical
- (C) hostile
- (D) indifferent

**Q160. In the passage, the author's tone can best be described as:**

- (A) indifferent
- (B) analytical
- (C) sarcastic
- (D) hostile

**Q161. The word 'ubiquitous' most nearly means:**

- (A) expensive
- (B) rare
- (C) invisible
- (D) widespread

**Q162. The author uses the metaphor to:**

- (A) digress
- (B) confuse readers
- (C) illustrate complexity
- (D) add humor

**Q163. The graph supports which claim from the passage?**

- (A) Claim in paragraph 3
- (B) Claim in paragraph 1
- (C) Both claims
- (D) Neither claim

**Q164. The author uses the metaphor to:**

- (A) confuse readers
- (B) add humor
- (C) digress
- (D) illustrate complexity

**Q165. Which word best completes: 'The scientist's \_\_\_\_ approach led to groundbreaking discoveries.'**

- (A) methodical
- (B) haphazard
- (C) reckless
- (D) timid

**Q166. Which choice most effectively combines the underlined sentences?**

- (A) Using 'but'
- (B) Using 'and'
- (C) Using a dash
- (D) Using a semicolon

**Q167. The primary purpose of the passage is to:**

- (A) list facts
- (B) argue a position
- (C) describe a scene
- (D) tell a story

**Q168. Which evidence best supports the author's claim?**

- (A) The anecdote in paragraph 1
- (B) The conclusion
- (C) The title
- (D) Statistical data in paragraph 2

**Q169. 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

**Q170. The author's central claim is that:**

- (A) Tradition is paramount
- (B) Technology is harmful
- (C) Change is impossible
- (D) Innovation requires risk

**Q171. The author includes the example in paragraph 2 in order to:**

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

**Q172. The word 'equivocal' most nearly means:**

- (A) rapid
- (B) ambiguous
- (C) certain
- (D) gentle

**Q173. Which choice most effectively combines the underlined sentences?**

- (A) Using 'and'
- (B) Using 'but'
- (C) Using a semicolon
- (D) Using a dash

**Q174. In the passage, the author's tone can best be described as:**

- (A) sarcastic
- (B) indifferent
- (C) hostile
- (D) analytical

**Q175. Which rhetorical device does the author employ in line 15?**

- (A) Alliteration
- (B) Analogy
- (C) Hyperbole
- (D) Onomatopoeia

## Section 4: Science (40 Questions)

**Q176. For an ideal gas,  $C_p - C_v$  equals:**

- (A)  $R/2$
- (B)  $2R$
- (C) 0
- (D)  $R (8.314 \text{ J/mol K})$

**Q177. The hybridization of C in acetylene is:**

- (A)  $sp^3$
- (B)  $sp$
- (C)  $sp^2$
- (D)  $sp^3d$

**Q178. Hess's law states that:**

- (A) Rate depends on concentration
- (B) Enthalpy change is path independent
- (C) Entropy always increases
- (D) Volume is constant

**Q179. The de Broglie wavelength of an electron accelerated through 50 V is approximately:**

- (A) 1.53 Angstrom
- (B) 2.14 Angstrom
- (C) 2.64 Angstrom
- (D) 1.20 Angstrom

**Q180. The electric field at 3 m from a point charge of 6  $\mu\text{C}$  is:**

- (A) 8811 N/C
- (B) 672 N/C
- (C) 7047 N/C
- (D) 1784 N/C

**Q181. A projectile is launched at 45 degrees with initial velocity 36 m/s. The time of flight is approximately:**

- (A) 2.5 s
- (B) 1.6 s
- (C) 2.4 s
- (D) 4.3 s

**Q182. Which test distinguishes aldehydes from ketones?**

- (A) Tollens' test (silver mirror)
- (B) Beilstein test
- (C) Lucas test
- (D) Lassaigne test

**Q183. The work function of a metal is 3.3 eV. The threshold frequency is:**

- (A)  $9.88 \times 10^{14}$  Hz
- (B)  $10.83 \times 10^{14}$  Hz
- (C)  $6.65 \times 10^{14}$  Hz
- (D)  $7.25 \times 10^{14}$  Hz

**Q184. The escape velocity from a planet of mass  $3 \times 10^{24}$  kg and radius 6004 km is:**

- (A) 9.6 km/s
- (B) 9.1 km/s
- (C) 14.0 km/s
- (D) 12.6 km/s

**Q185. In photoelectric effect, the stopping potential for light of wavelength 260 nm on a metal with work function 2.9 eV is:**

- (A) 2.43 V
- (B) 2.94 V
- (C) 0.69 V
- (D) 3.39 V

**Q186. The reagent for converting aldehyde to carboxylic acid is:**

- (A)  $\text{LiAlH}_4$
- (B)  $\text{NaBH}_4$
- (C)  $\text{KMnO}_4 / \text{K}_2\text{Cr}_2\text{O}_7$
- (D)  $\text{Zn-Hg} / \text{HCl}$

**Q187. A Carnot engine operates between 781 K and 324 K. Its efficiency is:**

- (A) 54%
- (B) 51%
- (C) 60%
- (D) 28%

**Q188. A force of 64 N acts on a 17 kg body initially at rest. The velocity after 4 s is:**

- (A) 37 m/s
- (B) 26 m/s
- (C) 7 m/s
- (D) 49 m/s

**Q189. A block of mass 8 kg slides down a frictionless incline of angle 45 degrees. The acceleration is:**

- (A)  $3.1 \text{ m/s}^2$
- (B)  $4.3 \text{ m/s}^2$
- (C)  $3.8 \text{ m/s}^2$
- (D)  $5.1 \text{ m/s}^2$

**Q190. Wurtz reaction involves coupling of:**

- (A) Acids with  $\text{SOCl}_2$
- (B) Alkyl halides with Na
- (C) Aryl halides with Cu
- (D) Aldehydes with NaOH

**Q191. A radioactive substance has half-life 20 days. The fraction remaining after 14 days is:**

- (A)  $1/16$
- (B)  $1/16$
- (C)  $1/32$
- (D)  $1/4$

**Q192. The magnetic moment of  $\text{Fe}^{2+}$  ( $d^6$ ) in weak field is:**

- (A) 5.9 BM
- (B) 0 BM
- (C) 4.9 BM (4 unpaired)
- (D) 2.83 BM

**Q193. Williamson's synthesis is used to prepare:**

- (A) Amines
- (B) Alcohols
- (C) Esters
- (D) Ethers

**Q194. Light passes from glass ( $n=1.6$ ) to air. The critical angle is:**

- (A) 42 degrees
- (B) 42 degrees
- (C) 46 degrees
- (D) 48 degrees

**Q195. A solenoid of 145 turns and length 0.1 m carries current 4 A. The magnetic field inside is:**

- (A) 1.19 mT
- (B) 9.69 mT
- (C) 16.56 mT
- (D) 17.15 mT

**Q196. Friedel-Crafts acylation uses which catalyst?**

- (A)  $\text{ZnCl}_2$
- (B)  $\text{FeCl}_3$
- (C)  $\text{CuCl}_2$
- (D)  $\text{AlCl}_3$

**Q197. The major product of  $\text{S}_{\text{N}}1$  reaction of tert-butyl chloride with ethanol is:**

- (A) tert-Butyl ethyl ether
- (B) tert-Butanol
- (C) Isobutane
- (D) 2-Methylpropene

**Q198. The molar conductivity at infinite dilution can be obtained by:**

- (A) Ohm's law
- (B) Faraday's law
- (C) Kohlrausch's law
- (D) Hess's law

**Q199. The lightest noble gas is:**

- (A) Helium
- (B) Argon
- (C) Neon
- (D) Krypton

**Q200. For a first-order reaction with  $k = 0.085 \text{ s}^{-1}$ , the half-life is:**

- (A) 20.0 s
- (B) 10.0 s
- (C) 13.9 s
- (D) 15.0 s

**Q201. Light passes from glass ( $n=1.6$ ) to air. The critical angle is:**

- (A) 43 degrees
- (B) 39 degrees
- (C) 38 degrees
- (D) 43 degrees

**Q202. Two capacitors 9  $\mu\text{F}$  and 8  $\mu\text{F}$  are connected in series. The equivalent capacitance is:**

- (A) 2.76  $\mu\text{F}$
- (B) 3.56  $\mu\text{F}$
- (C) 2.11  $\mu\text{F}$
- (D) 4.24  $\mu\text{F}$

**Q203. Lanthanide contraction is caused by:**

- (A) Poor shielding by 4f electrons
- (B) High ionization energy
- (C) Electron capture
- (D) Nuclear fusion

**Q204. The de Broglie wavelength of an electron accelerated through 50 V is approximately:**

- (A) 1.17 Angstrom
- (B) 1.32 Angstrom
- (C) 2.55 Angstrom
- (D) 1.07 Angstrom

**Q205. Which metal is extracted by thermite process?**

- (A) Sodium
- (B) Iron
- (C) Chromium
- (D) Aluminium

**Q206. The current through a 11 ohm resistor connected to a 12 V battery is:**

- (A) 2.51 A
- (B) 2.22 A
- (C) 2.81 A
- (D) 2.50 A

**Q207. The rate of reaction doubles when temperature increases by:**

- (A) 20 K
- (B) 10 K
- (C) 50 K
- (D) 5 K

**Q208. An electron moves with velocity  $1 \times 10^6$  m/s perpendicular to a magnetic field of 0.3 T. The radius of its path is:**

- (A) 2.09 cm
- (B) 0.95 cm
- (C) 0.80 cm
- (D) 1.71 cm

**Q209. The hybridization of Ni in  $[\text{Ni}(\text{CN})_4]^{2-}$  is:**

- (A)  $sp^3d$
- (B)  $dsp^2$
- (C)  $d^2sp^3$
- (D)  $sp^3$

**Q210. Grignard reagents react with dry  $\text{CO}_2$  to give:**

- (A) Alcohols
- (B) Esters
- (C) Ketones
- (D) Carboxylic acids

**Q211. Colligative properties depend on:**

- (A) Number of solute particles
- (B) Nature of solvent
- (C) Molar mass of solute
- (D) Nature of solute

**Q212. d-block elements show variable oxidation states because:**

- (A) Close energy of  $(n-1)d$  and  $ns$  orbitals
- (B) Large atomic size
- (C) Filled d orbitals
- (D) Low ionization energy

**Q213. The equilibrium constant  $K_p$  and  $K_c$  are related by:**

- (A)  $K_p = K_c(RT)^{\Delta n}$
- (B)  $K_p = K_c$
- (C)  $K_p = RT \cdot K_c$
- (D)  $K_p = K_c/RT$

**Q214. An ideal gas at 292 K is heated at constant pressure to 489 K. The ratio of final to initial volume is:**

- (A) 2.3
- (B) 2.1
- (C) 2.7
- (D) 2.1

**Q215. The focal length of a concave mirror is 21 cm. An object at 25 cm forms image at:**

- (A) 15 cm, real inverted
- (B) 34 cm, real inverted
- (C) 53 cm, real inverted
- (D) 47 cm, real inverted

# Answer Key

Q1: (B)	Q2: (A)	Q3: (B)	Q4: (D)	Q5: (B)
Q6: (D)	Q7: (D)	Q8: (B)	Q9: (C)	Q10: (D)
Q11: (C)	Q12: (B)	Q13: (B)	Q14: (A)	Q15: (D)
Q16: (B)	Q17: (B)	Q18: (A)	Q19: (C)	Q20: (C)
Q21: (A)	Q22: (D)	Q23: (B)	Q24: (A)	Q25: (B)
Q26: (D)	Q27: (D)	Q28: (B)	Q29: (D)	Q30: (B)
Q31: (C)	Q32: (D)	Q33: (D)	Q34: (C)	Q35: (B)
Q36: (A)	Q37: (A)	Q38: (A)	Q39: (C)	Q40: (A)
Q41: (B)	Q42: (C)	Q43: (D)	Q44: (C)	Q45: (D)
Q46: (B)	Q47: (C)	Q48: (C)	Q49: (C)	Q50: (C)
Q51: (B)	Q52: (B)	Q53: (C)	Q54: (C)	Q55: (D)
Q56: (D)	Q57: (D)	Q58: (C)	Q59: (A)	Q60: (C)
Q61: (C)	Q62: (B)	Q63: (A)	Q64: (C)	Q65: (A)
Q66: (B)	Q67: (A)	Q68: (B)	Q69: (C)	Q70: (C)
Q71: (A)	Q72: (C)	Q73: (D)	Q74: (D)	Q75: (B)
Q76: (B)	Q77: (B)	Q78: (B)	Q79: (C)	Q80: (D)
Q81: (B)	Q82: (D)	Q83: (D)	Q84: (B)	Q85: (B)
Q86: (A)	Q87: (C)	Q88: (B)	Q89: (B)	Q90: (B)
Q91: (C)	Q92: (D)	Q93: (C)	Q94: (D)	Q95: (C)
Q96: (D)	Q97: (C)	Q98: (A)	Q99: (B)	Q100: (B)
Q101: (D)	Q102: (A)	Q103: (B)	Q104: (A)	Q105: (B)
Q106: (A)	Q107: (B)	Q108: (C)	Q109: (C)	Q110: (C)
Q111: (A)	Q112: (D)	Q113: (C)	Q114: (A)	Q115: (A)
Q116: (A)	Q117: (C)	Q118: (C)	Q119: (C)	Q120: (B)
Q121: (D)	Q122: (C)	Q123: (A)	Q124: (C)	Q125: (A)
Q126: (A)	Q127: (C)	Q128: (C)	Q129: (C)	Q130: (D)
Q131: (C)	Q132: (B)	Q133: (A)	Q134: (B)	Q135: (D)
Q136: (C)	Q137: (C)	Q138: (A)	Q139: (B)	Q140: (B)
Q141: (A)	Q142: (A)	Q143: (C)	Q144: (B)	Q145: (C)
Q146: (C)	Q147: (B)	Q148: (D)	Q149: (A)	Q150: (A)
Q151: (C)	Q152: (A)	Q153: (A)	Q154: (B)	Q155: (C)
Q156: (D)	Q157: (D)	Q158: (D)	Q159: (B)	Q160: (B)
Q161: (D)	Q162: (C)	Q163: (B)	Q164: (D)	Q165: (A)
Q166: (D)	Q167: (B)	Q168: (D)	Q169: (A)	Q170: (D)
Q171: (D)	Q172: (B)	Q173: (C)	Q174: (D)	Q175: (B)
Q176: (D)	Q177: (B)	Q178: (B)	Q179: (A)	Q180: (B)
Q181: (C)	Q182: (A)	Q183: (A)	Q184: (A)	Q185: (D)
Q186: (C)	Q187: (D)	Q188: (B)	Q189: (C)	Q190: (B)
Q191: (C)	Q192: (C)	Q193: (D)	Q194: (A)	Q195: (D)
Q196: (D)	Q197: (A)	Q198: (C)	Q199: (A)	Q200: (C)
Q201: (C)	Q202: (D)	Q203: (A)	Q204: (D)	Q205: (C)
Q206: (C)	Q207: (B)	Q208: (C)	Q209: (B)	Q210: (D)

Q211: (A)

Q212: (A)

Q213: (A)

Q214: (C)

Q215: (D)

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