# CAREER INFOWIS INSTITUTE

SAINIK SCHOOL, MILITARY SCHOOL, RIMC, NAVODAYA SCHOOL

# SAMPLE PAPER -8

## GENERAL KNOWLEDGE

1. Who is the Supreme Commander of the Indian Armed Forces:
   a. Mr. A.k Antony
   b. Mr. Ramnath Kovind
   c. Gen. Bikram Singh
   d. Marshal of the Air Force Arjun Singh

2. In how many ways can a Bats man be given out in Cricket:
   a. 5        b. 6
   c. 8        d. 10

3. Which of the following is not a sedimentary rock:
   a. Limestone        b. Marble
   c. Sandstone        d. Shale

4. Which of the following rocks is transformed into marble:
   a. Granite        b. Limestone
   c. Peat        d. Shale

5. Which of the following is a metamorphic rock:
   a. Slate        b. Sandstone
   c. Shale        d. Limestone

6. Comets revolve around:
   a. Sun
   b. Earth
   c. Venus
   d. No single heavenly body

7. Which two planets of the solar system have no satellites:
   a. Mercury and Venus
   b. Venus and Mars
   c. Mercury and Pluto
   d. Venus and Neptune

8. On which of the following planets of the solar system does the sum Rise in the west and set in the east:
   a. Venus        b. Mars
   c. Jupiter        d. Saturn

9. Halley's Comet appears once in a period of ___ years.
   a. 24        b. 32
   c. 76        d. 84

10. "Parsec" is the unit of measurement of:
    a. Density of stars
    b. Astronomical distance
    c. Brightness of heavenly bodies
    d. Orbital velocity of giant starts

11. Which of the following gases is most predominant in the SUN:
    a. Helium        b. Hydrogen
    c. Nitrogen        d. Ozone

12. The earth rotates around its axis from:
    a. North to South        b. East to West
    c. South to North        d. West to East

13. Summer Solstice in the Southern Hemisphere occurs on:
    a. Dec. 22        b. Sep. 23
    c. June 21        d. March 21

14. Which type of forest belt supplies most of the world's requirement of Newsprint:
    a. Coniferous forest
    b. Deciduous forest
    c. Evergreen forest
    d. Mediterranean forest

15. The greatest average annual precipitation is in:
    a. Hawaii        b. India
    c. Philippines        d. West Indies

16. The climate best suited for horticulture is:
    a. Equatorial        b. Mediterranean

c. Monsoon     d. Tundra

17. Deciduous trees are those:
    a. That grows up straight
    b. That grows plenty in dry places
    c. That never bears fruits
    d. That shed their leaves during a certain session

18. Which of the following trees is not a softwood variety:
    a. Fern     b. Mahogany
    c. Pine     d. Spruce

19. Which of the following pairings is incorrect:
    a. Isohytes-Humidity
    b. Isobars-Pressure
    c. Isotherms-Temperature
    d. Isohels-Sunshine

20. Which of the following is the fastest growing tree:
    a. Teak     b. Sal
    c. Eucalyptus     d. Banyan

21. Which of the following countries is the largest producer of sugar in the world:
    a. Russia     b. India
    c. Cuba     d. China

22. The leading mica producer in the World is:
    a. USA     b. Russia
    c. Japan     d. India

23. Venice in Italy and Vienna in Austria are famous for:
    a. Pottery     b. Glass industry
    c. Chemical industry   d. Textile industry

24. The largest population of scheduled tribnes in India is in:
    a. Himachal Pradesh
    b. Madhya Pradesh
    c. Arunachal Pradesh
    d. Sikkim

25. India lies in the:
    a. Northern and eastern
    b. Southern and eastern
    c. Northern and western
    d. Northern and southern

## LANGUAGE TEST (ENGLISH)

**Direction (26-30):** Answer questions on the basis of the following passage.

Voting is the privilege for which wars have been fought, protests have been organized and editorials have been written. No taxation without representation, was a battle cry of the American Revolution. Women struggled for *suffrage,* as did many minorities. Eighteen year olds calmored for the right to vote, saying that if they were old enough to go to war, they should be allowed to vote. Yet Americans have a *deplorable* voting history and many will tell you they have never voted.

26. Which of the following words is the best synonym for the word *privilege* as it is used in the passage?
    a. Duty     b. Responsibility
    c. Right     d. Nonentity

27. What is the meaning of the word *suffrage* as it is used in the passage?
    a. The right to honor all Americans
    b. The right to vote in elections
    c. The right to go to war
    d. The rigth to protest taxes

28. The phrase battle cry means the same as
    a. Legislation     b. Limitation
    c. Motto     d. Amendment

29. What is the meaning of the word deplorable as it is used in the passage?
    a. Covetous     b. Conclusive
    c. Enviable     d. shameful

**Direction (30-34):** Choose Synonym

30. Mirth
    a. Anger     b. Glee
    c. Sarcasm     d. Mistrust

31. Drudgery

a. Silliness     b. Labor

c. Evil     d. Investigation

**32.** Prerequisite

a. Necessary     b. Course

c. Difficult     d. Tar

**33.** Dire

a. Questionable     b. Forthright

c. Traitor     d. Urgent

**34.** grapple

a. Struggle     b. Trap

c. Laugh     d. Intend

**Direction (35-37):** Choose Antonyms:

**35.** Prolix is most dissimilar to:

a. brief     b. exquisite

c. reasonable     d. distinct

**36.** Lambent is most dissimilar to:

a. praise     b. present

c. dull     d. rough

37. Subsequent:

a. aloof     b. previous

c. following     d. dismissive

**38.** Yesterday, I ___ to see my grandparents.

a. Go     b. Have gone

c. Gone     d. Went

**39.** Ronnie, I ___ you in a long time. How have you been?

a. Was seen     b. Saw

c. Haven't seen     d. Hadn't seen

**40.** Some people say that it is better to ___ for today.

a. Is living     b. Living

c. Lives     d. Lives

**41.** Sachin was ___ standing me

a. Aside     b. Next

c. With     d. None

**42.** This material is different ___ that.

a. From     b. To

c. With     d. None

**43.** You should explain this ___ them.

a. To     b. At

c. With     d. None

**44.** He had been absent ___ Monday.

a. Since     b. For

c. From     d. None

**45.** I haven't been to the theatre ___ a long time.

a. Since     b. For

c. From     d. None

**Direction (46-50):** Choose the correct spelling of the word.

**46.** a. Easilly     b. Esily

c. Easily     d. Easiliy

**47.** a. Famlies     b. Famillies

c. Families     d. Familes

**48.** a. Worried     b. Worrieed

c. Worrid     d. Woried

**49.** a. Ugliiest     b. Uggliest

c. Ugleest     d. Ugliest

**50.** a. Funner     b. Funnieer

c. Funnier     d. Funier

## GENERAL INTELLIGENCE (REASONING)

**51.** **Statement:**

a. Some sheets are rods

b. No sheet is a foil

c. All rods are marbles

**Conclusions:**

I. No foil is a marble.

II. Some rods are foils.

III. Some rods are foils.

IV. Some rods are not foils.

a. Only I follows

b. only II follows

c. Either III or IV follows

d. Only II and IV follow

**52.** If the letters of the word AMERICA are arranged in the English alphabetical order from left to right, the position of how many letters will remain unchanged:

a. None  b. One
c. Two  d. Three

**53.** If a meaningful word can be formed using the second, the third, the fifth and the eighth letters of the word COURTIER exactly once, mark the last letter of that word as the answer. If more than one word can be formed mark Q as the answer. If no meaningful word can be formed mark H as the answer.
a. R  b. T
c. H  d. Q

**54.** In a code language, if 'TIGER' is coded as 'GRTVI' and 'EAGLE' is coded as 'VZTOV', how is the word 'RABBIT' coded in that language?
a. JZYYRG  b. IZYYRG
c. IYYZRG  d. GRYYZI

**55.** If the digits in the number 6763985142389 are arranged in the ascending order, then how many digits remain in their places?
a. Three  b. None
c. One  d. Two

**56.** In the English alphabet what is the 3rd letter to the left of the 8th letter to the right of the 5th letter to the left of M?
a. L  b. M
c. N  d. O

**57.** How is A related to R, if A's mother's husband's only daughter's son is R?
a. Mother  b. Father
c. Uncle  d. Can't determine

**58.** A person in a car started from his house and travelled 6 km North. Then he took a right turn and further travelled 3 km and took a left turn. After travelling 3 km he took a right turn and travelled 9 km and reached the club. How far is the club from his house and in which direction?
a. 14.5 km, South-west

b. 15 km, South-west
c. 15 km, North-east
d. 14.5 km, North-east

**59.** Four out of the following five are alike and hence form a group. Find the one which does not belong to that group.
a. BDF  b. DHL
c. FLR  d. HPY

**60.** In which direction is city R located with respect to city U?
I. City R is to the South of city S.
II. City R is to the East of city T which is to the north of city U.
III. City S is to the West of city Q.
a. Only I and II are sufficient to answer the question.
b. Only I and III are sufficient to answer the question.
c. Only II is sufficient to answer the question.
d. All I, II, III are required to answer the question.

**61.** Which is the number that should come next in the following series:
4, 6, 12, 14, 28, 30, ___
a. 32  b. 64
c. 62  d. 60

**Direction (62-63):** In each of the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

**62.** BD, GI, LN, QS ___
a. TV  b. VW
c. WX  d. VX

**63.** b – b – bb – – bbb – bb – b
a. bbbbba  b. bbaaab
c. ababab  d. aabaab

**64.** shallot: ___ :: scallop: mollusk
a. shark  b. muscle
c. dessert  d. onion

65. implement: rule:: ___ : verdict
   a. Propose          b. Render
   c. Divide           d. Teach

66. ___ : bedrock:: cement foundation
   a. Mica             b. Water
   c. Lava             d. Sand

67. Which one of the following Venn diagrams correclty illustrates the relationship among the classes: Carrot, Food and Vegetable:

   a.   b.
   c.   d.
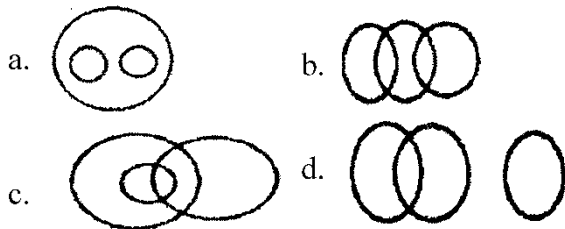
68. Find the missing character in each of the following questions:

| 3C | 27D | 9E |
|----|-----|-----|
| 71 | 21K | 3M |
| 4D | ?   | 7J |

   a. 11E              b. 28G
   c. 35L              d. 48F

**Direction (69-70):** Each of the following questions consists of Five problem figures marked as A, B, C, D, E and five answer figures marked 1, 2, 3, 4, 5. Select a figure from amongst the answer figures which will continue the series established by the five problem figures:

69. Problem Figures

   A    B    C    D    E

Answer Figures

   1    2    3    4    5
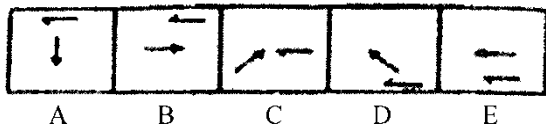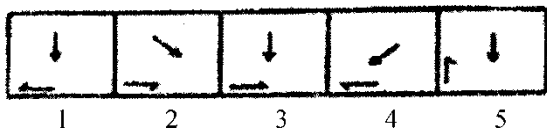
70. Problem Figures

   A    B    C    D    E

Answer Figures

   1    2    3    4    5
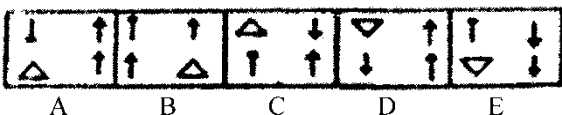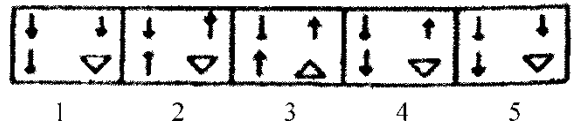
**Direction (71-72):** Figure A and B are related in a particular manner. Establish the same relationship between figures C and D by choosing a figure from amongst the five alternatives which would replace the question mark in fig. d.
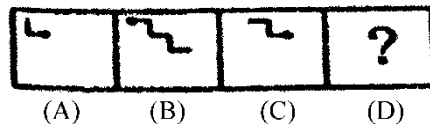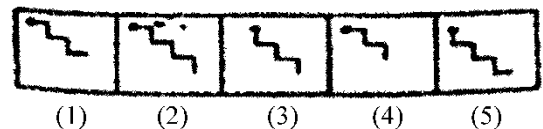
71. Problem Figures

   (A)      (B)      (C)      (D)

Answer Figures

   (1)      (2)      (3)      (4)      (5)
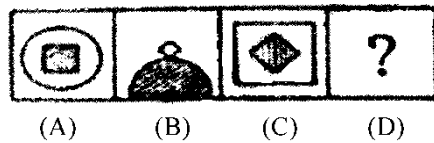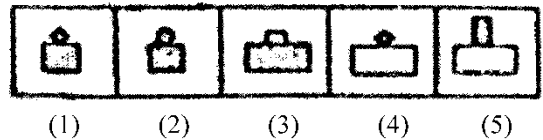
72. Problem Figures

   (A)      (B)      (C)      (D)

Answer Figures

   (1)      (2)      (3)      (4)      (5)

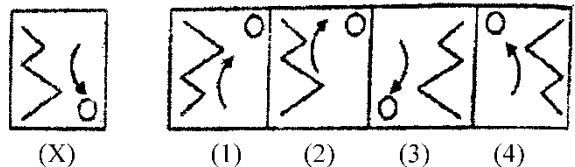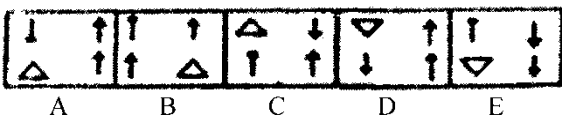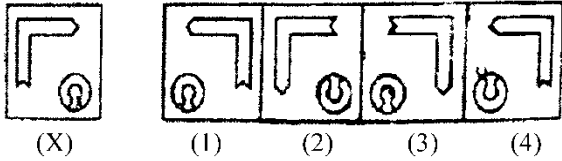**Direction (73-74):** In each of the following questions, choose the correct mirror image of the fig. (X) From the amongst the four alternatives a, b, c, d given along with it.
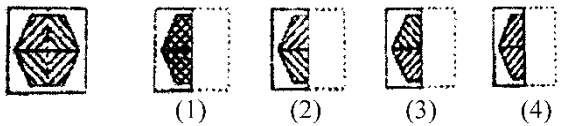
73.



   (X)          (1)      (2)      (3)      (4)

74.

(X)    (1)    (2)    (3)    (4)

**75.** In each of the following problems, a source transparent sheet with a pattern is given. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent shet is folded at the dotted line:



(1)    (2)    (3)    (4)

## MATHEMATICS

**76.** The expanded form for 308927 is
   a. 3000000 + 8000 + 900 + 20 + 7
   b. 3000000 + 800 + 90 + 2 + 7
   c. 30000 + 80000 + 9000 + 20 + 7
   d. 300000 + 8000 + 900 + 20 + 7

**77.** Estimate 734 + 998 by rounding off the nearest tens
   a. 1730          b. 1740
   c. 1750          d. 1760

**78.** Correct ascending order of 847, 9754, 8320, 571
   a. 571, 8320, 847, 9754
   b. 571, 847, 8320, 9754
   c. 9754, 847, 8320, 571
   d. 9754, 8320, 847, 571

**79.** In a basket there are two thousand kg apples, 340 kg oranges and 20 kg grapes, what is the total weight of fruits:
   a. 2340          b. 2350
   c. 2370          d. 2360

**80.** What must be subtracted from 11010101 to get 2635967?
   a. 934134        b. 7383414
   c. 8374134       d. 937414

**81.** Find product 12 x 35:
   a. 12600         b. 34840
   c. 420           d. 400

**82.** Find the value of 1507 – (625/25)
   a. 1482          b. 1580
   c. 1370          d. 1234

**83.** Find the sum 837 + 208 + 603
   a. 1548          b. 1148
   c. 1648          d. 1148

**84.** Area of rectangular garden of 50 m broad is 300 sq. m, the length of garden is
   a. 250 m         b. 6 m
   c. 6 m           d. 60 m

**85.** If perimeter of traingle is 15 cm and any two sides are of length 4 cm and 3 cm, then length of third side will be
   a. 7 cm          b. 5 cm
   c. 8 cm          d. 6 cm

**86.** A basket has x mangoes, how many mangoes are there in 5 baskets?
   a. x + 5         b. 5 x
   c. x – 5         d. x/5

**87.** A teacher distributes 15 pencils per student, how many pencils are needed for y students:
   a. 15 – y        b. 15 + y
   c. 15/y          d. 15 y

**88.** 36:84 is equivalent ratio of ___
   a. 7:3           b. 3:7
   c. 6:7           d. 12:7

**89.** Find the ratio of 25 to 125:
   a. 5 : 1         b. 5 : 15
   c. 1 : 5         d. 10 : 25

**90.** What will be the fraction of 20%?
   a. $\dfrac{1}{4}$          b. $\dfrac{1}{5}$
   c. $\dfrac{1}{10}$         d. None of these

**91.** The ratio 5 : 20 expressed as percent equals to

a. 50%　　　　　b. 125%

c. 25%　　　　　d. None of above

**92.** A pair of articles was bought for Rs. 37.40 at a discount of 15%. What must be the marked price of each of the articles?

a. Rs. 15　　　　b. Rs. 20

c. Rs. 22　　　　d. Rs. 25

**93.** A shopkeeper fixes the marked price of an item 35% above its cost price. The percentage of discount allowed to gain 8% is

a. 18%　　　　　b. 20%

c. 22%　　　　　d. 24%

**94.** Raj got a new chair for 35% discount. Had Raj got no discount, Raj would have had to pay Rs. 224 more. How much did Raj pay for the chair:

a. Rs. 416　　　b. Rs. 640

c. Rs. 208　　　d. Rs. 224

**95.** Chandrika raised the price of their products by 40%. How much discount should they give so as to sell the products on no profit no loss basis?

a. 40%　　　　　b. 28.5%

c. 22.5%　　　　d. 32.75%

**96.** A twice as good as workman as B and together they finish a piece of work in 18 days. In how many days will B alone finish the work.

a. 27 days　　　b. 54 days

c. 56 days　　　d. 68 days

**97.** To complete a work A and B takesa 8 days, B and C takes 12 days, A, B and C takes 6 days. How much time A and C will take

a. 24 days　　　b. 16 days

c. 12 days　　　d. 8 days

**98.** Find the HCF of 8, 18 and 24 is:

a. 1　　　　　　b. 2

c. 3　　　　　　d. 4

**99.** LCM of two numbers is 100 and their HCF is 5. If one number is 25. Find the other:

a. 10　　　　　b. 20

c. 30　　　　　d. 40

**100.** A certain sum is divided into two parts in the ratio 5:7. If the first part is 65, what is the second part:

a. 90　　　　　b. 91

c. 92　　　　　d. 93

**101.** $(5 + 11 \times 13) \div 4 = ?$

a. 52　　　　　b. 37

c. 40　　　　　d. 51

**102.** A man sold a watch at a profit of 5%. If cost price of the watch was Rs. 200, what was its selling price:

a. 205　　　　　b. 210

c. 250　　　　　d. 300

**103.** Find the HCF of 25 and 50.

a. 5　　　　　　b. 50

c. 25　　　　　d. 10

**104.** Add the following: 5m 70 cm + 3 m 20 cm + 4m 30 cm:

a. 10 m　　　　b. 13 m 20 m

c. 12 m 40 cm　d. 4 m 20 cm

**105.** What least number should be added to 79 to make it a perfect square:

a. 5　　　　　　b. 3

c. 2　　　　　　d. 0

**106.** A man bought 5 dozen bananas. If half of the bananas become bad, find the number of good bananas:

a. 20　　　　　b. 30

c. 10　　　　　d. 2

**107.** Find the simple interest on Rs. 200 at 5% per annum for 2 years:

a. 10　　　　　b. 22

c. 18　　　　　d. 20

**108.** Fill in the blank space in the following series: $\frac{1}{2}$, 1, ___, 2, $\frac{5}{2}$
  a. 3/2
  b. 1/3
  c. 2/3
  d. 6/3

**109.** Evaluate: $1.2 \times 1.2 - 0.44$:
  a. 0
  b. 0.44
  c. 1
  d. 1.06

**110.** Ram had Rs. 450. After giving 2/5 of his money to his eldest son and 1/3 of his money to his youngest son, how much money had Ram now:
  a. 120
  b. 180
  c. 360
  d. 100

**111.** Find 15% of Rs. 600.
  a. 15
  b. 50
  c. 90
  d. 120

**112.** Ram takes a newspaper worth Rs. 0.50 daily. How much money he will have to pay for the month of January:
  a. 15.50
  b. 12
  c. 150
  d. 50

**113.** There were 40 students in a class. 20% student failed in an examination. How many students passed th examination?
  a. 20
  b. 32
  c. 19
  d. 24

**114.** Find the greatest number formed by the digits 3, 0, 1 and 4:
  a. 1340
  b. 1034
  c. 4310
  d. 1304

**115.** 8 men complete a work in 6 days. In how many days 6 men will complete the same work:
  a. 4
  b. 8
  c. 12
  d. 6

**116.** Find the cost of 1.5 m cloth at the rate Rs. 2.20 per meter:
  a. 4
  b. 310
  c. 3.30
  d. 5

**117.** In a well water level was 18 m below. Due to rains water level increased by 3.5 m. What is the water level in the well now?
  a. 14.5 m
  b. 15.6 m
  c. 21.5 m
  d. 3.5 m

**118.** 10 books can be bought for Rs. 30. How many books can be bought for Rs. 45?
  a. 12
  b. 15
  c. 20
  d. 30

**119.** A man sold a transistor for Rs. 450 at a loss of a loss of 10%. Find the cost price of the transistor.
  a. 400
  b. 500
  c. 110
  d. 490

**120.** A car covers 20 km distance in 25 minutes. How much distance will it cover in 2 hours 30 minutes:
  a. 100
  b. 120
  c. 150
  d. 50

**121.** A train covers 750 km in 15 hours. How many km the train will cover in 2 hrs:
  a. 100
  b. 150
  c. 200
  d. 220

**122.** An almirah was bought for Rs. 400 and was sold for Rs. 440. Find his profit percentage:
  a. 5%
  b. 40%
  c. 10%
  d. 30%

123. Weight of three boys is 25 kg, 28 kg and was sold for Rs. 25 kg, 28 kg and 31 kg respectively. Find the average weight of boys:
    a. 25
    b. 27
    c. 28
    d. 26

124. A field measures 20m by 10m. How much distance you will have to cover if you go round the field twice:
    a. 60
    b. 100
    c. 120
    d. 200

125. Full up the blank space with the correct number $4.5 \times 0.2$:
    a. 0.90
    b. 9.00
    c. 4.72
    d. 8.90

# CAREER INFOWIS INSTITUTE
SAINIK SCHOOL, MILITARY SCHOOL, RIMC, NAVODAYA SCHOOL

## ANSWER KEY

### General Knowledge

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1. B | 4. B | 7. A | 10. B | 13. A | 16. B | 19. D | 22. D | 25. A |
| 2. D | 5. A | 8. A | 11. B | 14. A | 17. D | 20. A | 23. A | |
| 3. B | 6. A | 9. C | 12. D | 15. B | 18. A | 21. B | 24. B | |

### Language Test (English)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 26. C | 29. D | 32. A | 35. A | 38. D | 41. C | 44. A | 47. C | 50. C |
| 27. B | 30. B | 33. D | 36. C | 39. D | 42. A | 45. B | 48. A | |
| 28. C | 31. B | 34. A | 37. B | 40. D | 43. A | 46. C | 49. D | |

### General Intelligence (Reasoning)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 51. D | 54. B | 57. A | 60. C | 63. C | 66. A | 69. A | 72. B | 75. B |
| 52. C | 55. D | 58. C | 61. D | 64. D | 67. A | 70. E | 73. C | |
| 53. D | 56. B | 59. D | 62. D | 65. B | 68. B | 71. C | 74. A | |

### Mathematics

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 76. D | 81. C | 86. B | 91. C | 96. B | 101. B | 106. B | 111. C | 116. C | 121. A |
| 77. A | 82. A | 87. D | 92. C | 97. D | 102. B | 107. D | 112. A | 117. A | 122. C |
| 78. B | 83. C | 88. B | 93. B | 98. B | 103. C | 108. A | 113. B | 118. B | 123. C |
| 79. D | 84. B | 89. C | 94. A | 99. B | 104. B | 109. C | 114. C | 119. B | 124. C |
| 80. C | 85. C | 90. B | 95. B | 100. B | 105. C | 110. A | 115. B | 120. B | 125. A |