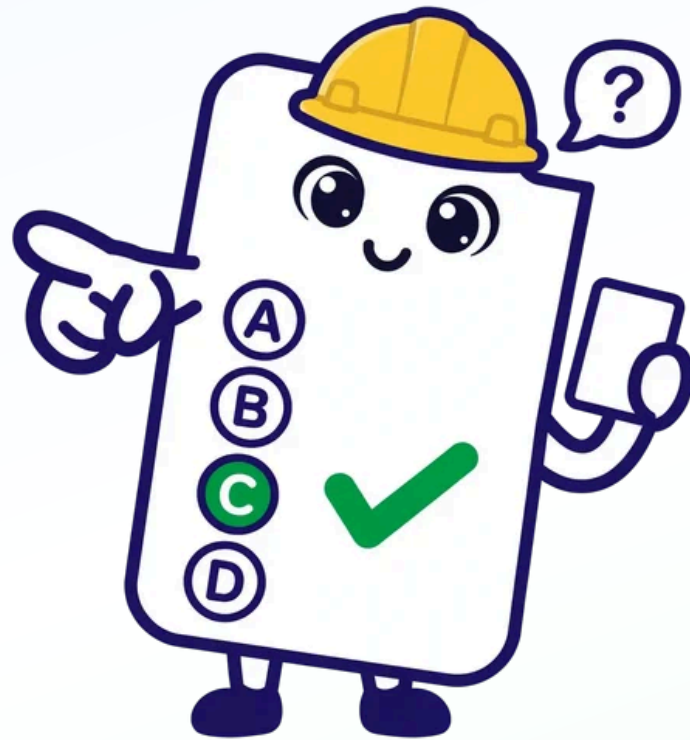




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100 MCQs

Real GIKI subject split

Answer key + online explanations

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100 MCQs across one paper, each drawn in the same subject split as the real GIKI paper:

- Mathematics: 30 MCQs per paper
- Physics: 30 MCQs per paper
- Chemistry: 30 MCQs per paper
- English: 10 MCQs per paper



MODEL PAPER 1 OF 1

GIKI Admission Test

100 MCQs · 180 minutes · answer key at the back

**Mathematics**

30 MCQs

1. $n^2 > n + 3$ is true for:

- (A) $n \geq 3$ (B) $n \geq 1$
(C) $n \geq 2$ (D) $n \geq -1$

2. The side of a rhombus is 26 m and length of one of its diagonals is 20 m. The area of the rhombus is _____?

- (A) 529 sq m (B) 240 sq m
(C) 260 sq m (D) 480 sq m

3. A trader mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is:

- (A) No profit, no loss (B) 5%
(C) 8% (D) 10%

4. The term independent of y in the expansion of $(y^{1/6} - y^{1/3})^4$ is:

- (A) 84 (B) 8,4
(C) 0.84 (D) None of these

5. A rectangular carpet has an area of 120 square meters and a parameter of 46m. The length of its diagonals is _____?

- (A) 11m (B) 13m
(C) 15m (D) 17m

6. $12(13/18) + 16(11/27) - 10(5/9) =$ _____?

- (A) 182/3 (B) 1831/54
(C) 18 (D) 201/2

7. (i). $a^2 + 11a + 30 = 0$, (ii). $b^2 + 6b + 5 = 0$ to solve both the equations to find the values of a and b ?

- (A) If $a < b$
(B) If $a \leq b$
(C) If the relationship between a and b cannot be established
(D) If $a > b$

8. The length and breadth of a rectangular piece of land are in the ratio of 5:3. The owner spent Rs 3000 for surroundings it from are the sides at Rs 7.50 per meter. The difference between is length and breadth is _____?

- (A) 50m
- (B) 100m
- (C) 150m
- (D) 200m

9. Candidates in a competitive examination consisted of 60% men and 40% women 70% men and 75% women cleared the qualifying test and entered the final test where 80% men and 70% women were successful? Which of the following statements is correct?

- (A) Success rate is higher for women
- (B) Overall success rate is below 50%
- (C) More men cleared the examination than women
- (D) Both 'A' and 'B'

10. In how many ways can live boys and three girls sit in a row such that all boys sit together?

- (A) 4800
- (B) 5760
- (C) 2880
- (D) 15000

11. The wire bent in the form of a square enclose an area of 484 Sq.cm. If the same wire is bent so as to form a circle then the area enclosed will be _____?

- (A) 484 Sq.cm
- (B) $538 \frac{2}{7}$ Sq.cm
- (C) 616 Sq.cm
- (D) 644 Sq.cm

12. One tap can fill a cistern in 2 hours and another can empty the cistern in 3 hours. How long will they take to fill the cistern if both the taps are opened?

- (A) 5 Hours
- (B) 6 Hours
- (C) 7 Hours
- (D) 8 Hours

13. A non vertical line divides the plane into

- (A) left and right half planes
- (B) upper and lower half planes
- (C) four planes
- (D) None

14. The ratio between the radii of two spheres is 1:3. Find the ratio between their volumes?

- (A) 27:1
- (B) 1:27
- (C) 1:9
- (D) 9:1

15. A, B and C are partners. A receives $\frac{2}{3}$ of profits, B and C dividing the remainder equally. A's income is increased by Rs.200 when the rate of profit rises from 5 to 7 percent. Find the Capital of B?

- (A) Rs.2450
- (B) Rs.3600
- (C) Rs.2500
- (D) Rs.3100

16. The sum of four consecutive even numbers is 292. What would be the smallest number?

- (A) 74
- (B) 76
- (C) 70
- (D) 68
- (E) None of these

17. The ratio between the length and breadth of a rectangular field is 5:4. If the breadth is 20 meters less than the length. The perimeter of the field is_____?

- (A) 260m
- (B) 280m
- (C) 360m
- (D) None of these

18. On an order of 5 dozen boxes of a consumer product, a retailer receives an extra dozen free. This is equivalent to allowing him a discount of:_____?

- (A) 15%
- (B) $16 \frac{1}{6}\%$
- (C) $16 \frac{2}{3}\%$
- (D) 20%Fun & Trivia

19. The binomial series are conveniently used for summation of:

- (A) Alternating series
- (B) Divergent
- (C) Finite series
- (D) Infinite series

20. A rope of which a calf is tied is increased from 12 m to 23 m, how much additional grassy ground shall it graze?

- (A) 1120 m²
- (B) 1250 m²
- (C) 1210 m²
- (D) 1200 m²

21. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is :_____?

- (A) 2 : 5
- (B) 3 : 5
- (C) 4 : 5
- (D) 6 : 7

22. The sum and the product of the roots of the quadratic equation $x^2 + 20x + 3 = 0$ are?

- (A) 10, 3
- (B) -10, 3
- (C) -20, 3
- (D) -10, -3

23. What is the area of a square field whose diagonal of length 20 m?

- (A) 300 sq m
- (B) 250 sq m
- (C) 200 sq m
- (D) 400 sq m

24. All the water in container A which was filled to its brim was poured into two containers B and C. The quantity of water in container B was 62.5% less than the capacity of container A. If 148 liters was now transferred from C to B, then both the containers would have equal quantities of water. What was the initial quantity of water in container A?

- (A) 648
- (B) 888
- (C) 928
- (D) 1184

25. Find the one which does not belong to that group ?

- (A) 525
- (B) 39
- (C) 24
- (D) 426
- (E) 636

26. The surface area of a (10cm x 4cm x 3cm) brick is _____?

- (A) 84 Sq.cm
- (B) 124 Sq.cm
- (C) 164 Sq.cm
- (D) 180 Sq.cm

27. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

- (A) 20 hrs
- (B) 25 hrs
- (C) 35 hrs
- (D) Cannot be determined

28. $(24 * 5 * 7 * 9) / ? = 216$

- (A) 15
- (B) 20
- (C) 25
- (D) 35

29. The area of largest triangle that can be inscribed in a semicircle of radius R cm is _____?

- (A) $2R \text{ cm}^2$
- (B) $R^2 \text{ cm}^2$
- (C) $\frac{1}{2} R^2 \text{ cm}^2$
- (D) $2 R^2 \text{ cm}^2$

30. Two tailors X and Y are paid a total of Rs. 550 per week by their employer. If X is paid 120 percent of the sum paid to Y, how much is Y paid per week?

- (A) Rs. 200
- (B) Rs. 250
- (C) Rs. 300
- (D) None of these



Physics

30 MCQs

31. A science museum designs an experiment to show the fall of a feather in a vertical glass vacuum tube. The time of fall from test is too close to 0.5 s. What length of tube is required?

- (A) 1.3 m
- (B) 2.5 m
- (C) 5.0 m
- (D) 10.0 m

32. For a H-atom which one of the following statements is correct?

- (A) The radius of the orbits are integral multiple of the Bohr-radius 0.053nm
- (B) The angular momentum is n times $\hbar/2\pi$
- (C) The energy in the nth-orbit is n times the ground state energy.
- (D) Missing

33. An electron has charge (e) and mass (m). A proton has charge e and mass $1840m$. A "Proton volt" is equal to:

- ☐ A A
- ☐ B B
- ☐ C C
- ☐ D D

34. In reverse biased diode when huge current starts to flow is called:

- ☐ A Avatanche effect
- ☐ B Break down of a diode
- ☐ C Rectification
- ☐ D Negative curent

35. What is the speed of 2.0 kg metallic bob at the mean position of a simple pendulum, when released from its extreme position 0.5m high? ($g = 10 \text{ ms}^{-2}$)

- ☐ A 3.16 ms^{-1}
- ☐ B 10 ms^{-1}
- ☐ C 100 ms^{-1}
- ☐ D 50 ms^{-1}

36. The escape velocity of body from a planet does not depend upon;

- ☐ A The mass of a body
- ☐ B The mass of the planet
- ☐ C The average radius of the planet
- ☐ D The density of the planet

37. Two bodies with masses m_1 and m_2 have equal kinetic energies. If M_1 and M_2 are their respective momentum then the ratio between M_1 and M_2 is:

- ☐ A $m_1 : m_2$
- ☐ B $\sqrt{m_1/m_2}$
- ☐ C $m_1^2 : m_2^2$
- ☐ D $\sqrt{m_1} : \sqrt{m_2}$

38. An electric charge in uniform motion produces:

- ☐ A An electric field.
- ☐ B A magnetic field.
- ☐ C Both magnetic and electric fields.
- ☐ D Neither magnetic nor electric fields.

39. The resolving power of the lens can be improved by using

- ☐ A Lens of short focal length
- ☐ B Lens of large focal length
- ☐ C Light of short wavelength
- ☐ D Light of large wavelength

40. The phenomenon of mutual induction is practically used in:

- ☐ A Transformer
- ☐ B Generator
- ☐ C Galvanometer
- ☐ D Avometer

41. One degree is equal to:

- ☐ A 0.1 radian
- ☐ B 0.15 radian
- ☐ C 0.0175 radian
- ☐ D 0.275 radian

42. Which one is the highest power multiple?

- (A) Giga
- (B) Tera
- (C) Mega
- (D) Deca

43. Which of the following is the Young Modulus of steel?

- (A) $20 \times 10^9 \text{ N/m}^2$
- (B) $3.9 \times 10^{-9} \text{ N/m}^2$
- (C) $2 \times 10^{11} \text{ N/m}^2$
- (D) $1.5 \times 10^9 \text{ N/m}^2$

44. Reluctance of a ferromagnetic material is for a conductor to the:

- (A) Resistance
- (B) Conductance
- (C) Inductance
- (D) Capacitance

45. When fluid is incompressible, the quantity is constant.

- (A) Mass
- (B) Density
- (C) Pressure
- (D) Force

46. The reciprocal of the resistivity of a material is called its:

- (A) Impedance
- (B) Conductivity
- (C) Admittance
- (D) Reactance

47. The internal energy of a fixed case of an ideal gas depends on:

- (A) Pressure, but not volume or temperature
- (B) Temperature, but not pressure or volume
- (C) Volume, but not pressure or temperature
- (D) Pressure and temperature, but not volume

48. The first artificial radioactive substance was made by bombarding aluminum $^{15}\text{Al}^{27}$, with α -particle. This produced an unstable isotope of phosphorus, $^{15}\text{P}^{30}$, What was the byproduct of this reaction?

- (A) An α -particle
- (B) A β -particle
- (C) A γ -ray
- (D) A neutron

49. Two vectors A and B are making angle θ with each other. The scalar projection of vector B on vector A is written as.

- (A) $\cos\theta$
- (B) $A \cdot B / B$
- (C) $A \cdot B / A$
- (D) $\sin\theta$

50. In a microwave oven, the wave produced has a wavelength of 12 cm at a frequency of:

- (A) 2.45 GHz
- (B) 2452 Hz
- (C) 2456 Hz
- (D) 2455 Hz

51. The time rate of change of velocity is called:

- ☐ A Force
- ☐ B Acceleration
- ☐ C Power
- ☐ D Energy

52. If an electron jumps from the second orbit to first orbit in hydrogen atom, it emits photon of:

- ☐ A 3.04 eV
- ☐ B 10.20 eV
- ☐ C 13.6 eV
- ☐ D 3.8 eV

53. The maximum kinetic energy of an electron ejected from a metal by a photon depends on:

- ☐ A The photon's frequency only
- ☐ B The metal work function and photon's frequency
- ☐ C The intensity of incident light
- ☐ D None of the above

54. In full-wave rectification, _ diodes are used.

- ☐ A 1
- ☐ B 2
- ☐ C 3
- ☐ D 4

55. To make the frequency double of a spring oscillation, we have to:

- ☐ A Reduce the mass to one fourth
- ☐ B Quadruple the mass
- ☐ C Double the mass
- ☐ D Half the mass

56. The pilot weighting 686N dived down with an acceleration of 9.8 m sec^{-2} its apparent weight is

- ☐ A 343N
- ☐ B 1372 N
- ☐ C 686 N
- ☐ D Zero

57. The amount of work done in moving a body at certain point in a gravitational field to a position of zero potential such that the body is never accelerated is called

- ☐ A Kinetic energy
- ☐ B Potential energy
- ☐ C Gravitational potential energy
- ☐ D Absolute potential energy

58. Work done in moving a charge of 6C between two points is 10J. What is the potential difference between two points?

- ☐ A 60V
- ☐ B 6V
- ☐ C 0.6 V
- ☐ D 1.66 V

59. For better resolution and clear visibility through a microscope, we use

- ☐ A Longer wavelength light
- ☐ B Shorter wavelength light
- ☐ C Wavelength has no effect
- ☐ D It depends only on the design of the microscope not on light

60. The counter torque produced in the moving coil of generator is called:

- ☐ A resotoring torque
- ☐ B defelection torque
- ☐ C back motor effect
- ☐ D all of these



Chemistry

30 MCQs

61. An enzyme used to decompose the lipids into fatty acids in our alimentary canal is

- ☐ A Amylase
- ☐ B Protease
- ☐ C Lipase
- ☐ D Urease

62. Electron gas theory was proposed to explain the bonding in solids:

- ☐ A Molecular
- ☐ B Ionic
- ☐ C Covalent
- ☐ D Metallic

63. Final equation for the representation of rate of reaction in term of concentration is called

- ☐ A Rate law
- ☐ B Rate constant
- ☐ C Reaction rate
- ☐ D Reaction order

64. If we pass current through the sucrose solution the galvanometer will not show any deflection because sucrose molecules:

- ☐ A Move towards cathode
- ☐ B Move towards anode
- ☐ C React with water
- ☐ D Remain neutral

65. Which of the following is light as a feather and strong as iron?

- ☐ A Graphene
- ☐ B Graphite
- ☐ C Diamond
- ☐ D Mercury

66. The low resolution proton spectrum of a compound contains two peaks. Which of the following compounds could not give this spectrum?

- ☐ A Propane
- ☐ B Butane
- ☐ C 2-methylpropane
- ☐ D 2,2 - dimethylpropane

67. You are electrolyzing potassium salt of a dicarboxylic acid in aqueous solution. Which product do you expect to be formed?

- ☐ A Option A
- ☐ B Option B
- ☐ C Option C
- ☐ D None

68. Which of the following electronic configuration is/are correct? (i) $23\text{Na } 1s^2 2s^2 2p^6 3s^1$ (ii) $29\text{Cu } [\text{Ar}] 4s^1 3d^{10}$ (iii) $24\text{Cr } [\text{Ar}] 4s^2 3d^4$

- ☐ A I only
- ☐ B I and III only
- ☐ C I and II only
- ☐ D II and III only

69. Lucas Test is used to detect the presence of:

- (A) Alcohols
- (B) Phenols
- (C) Amino acids
- (D) Carboxylic acids

70. Aldehydes may be distinguished from ketones by the use of:

- (A) Hoffman reagent
- (B) Grignard reagent
- (C) Tollens reagent
- (D) Cannizaro reagent

71. Which is the best drying agent in desiccators?

- (A) KOH
- (B) Gypsum
- (C) CaCl_2
- (D) Silica sand

72. Conversion of dihaloalkane into alkyne does not involve

- (A) Addition
- (B) Elimination
- (C) Base
- (D) Heat

73. Excess of BaSO_4 was dissolved in pure water at 25°C . If its $K_{sp} = 1 \times 10^{-10}$ what is the Conc: of Ba^{2+} ions in water?

- (A) 10^{-10}
- (B) 10^{-20}
- (C) 10^{-5}
- (D) 10^{-6}

74. Fischer esterification is which type of reaction:

- (A) Condensation
- (B) Substitution
- (C) Elimination
- (D) Dehydrogenation

75. Processes involving solid and liquid have their:

- (A) $\Delta H = \Delta E + P\Delta V$
- (B) $\Delta H = P\Delta V$
- (C) $\Delta H = \Delta E$
- (D) $\Delta H = 0$

76. Identify which one of the following water pollutant is Carcinogenic?

- (A) Polycyclic hydrocarbons
- (B) Mineral acids
- (C) D.D.T
- (D) Nitrate fertilizers

77. $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$ In the above reaction, the limiting reagent is:

- (A) N_2
- (B) H_2
- (C) Ammonia
- (D) None of the above

78. Butane molecules can have a maximum number of isomers.

- (A) 5
- (B) 3
- (C) 4
- (D) 2

79. Melting point of water is higher than petrol, because intermolecular forces in water are:

- ☐ A Weaker than petrol
- ☐ B Stronger than petrol
- ☐ C Same as in petrol
- ☐ D Negligible

80. Which of the following functional groups is NOT ortho para directing and activating?

- ☐ A R
- ☐ B OH
- ☐ C COR
- ☐ D NH₂

81. Which is the correct formula of ammonium carbamate?

- ☐ A H₂NCONH₂
- ☐ B NH₄COONH₄
- ☐ C H₂NCOONH₂
- ☐ D NH₂COONH₄

82. In hydronium ion, what is the nature of bond between oxygen of water and hydrogen ion in an acidic solution?

- ☐ A Covalent
- ☐ B Electrovalent
- ☐ C Hydrogen bond
- ☐ D Coordinate covalent bond

83. The non-stick lining of pans is:

- ☐ A Difluoroethane
- ☐ B Chloroethane
- ☐ C Chlorofluororhane
- ☐ D Tetrafluoroethane

84. One way of expressing the equation of state for an ideal gas is by the equation $pV = NkT$. What do 'N' and 'K' represent respectively

- ☐ A Avogadro constant; Boltzmann constant
- ☐ B Avogadro constant; Molar gas constant
- ☐ C Total number of molecules; Boltzmann constant
- ☐ D Total number of molecules; Avogadro constant

85. A group of scientists discovered a new element that gives the properties of inert gases they should place the new element in the periodic table with the elements of:

- ☐ A s-block
- ☐ B d-block
- ☐ C f-block
- ☐ D p-block

86. Enzymes have a 3D shape due to which type Of protein structure:

- ☐ A Primary structure
- ☐ B Secondary structure
- ☐ C Tertiary structure
- ☐ D Quaternary structure

87. Which of the following transition metals has the highest variable oxidation state?

- ☐ A W
- ☐ B Pt
- ☐ C Hg
- ☐ D Mn

88. The catalyst used in the contact process is easily poisoned by :

- (A) Nitrous oxide
- (B) Carbon oxide
- (C) Arsenic oxide
- (D) Nitrogen oxide

89. A water sample contains 3.8×10^{-3} g of mercury per kilo gram of the sample. What is the concentration of mercury in parts per million?

- (A) 3.8 ppm
- (B) 38 ppm
- (C) 0.38 ppm
- (D) 380 ppm

90. Which is not used in calculating the lattice energy of crystalline solids?

- (A) Haber process
- (B) Born Haber cycle
- (C) Hess's law
- (D) Enthalpy changes



English

10 MCQs

91. Identify the error and choose the correct option: The first space traveller was dennis tito from united states

- (A) The first space traveller was Dennis Tito from the United States.
- (B) The First Space Traveller was Dennis Tito, from, the United states.
- (C) The first space traveller was Dennis Tito-from the United states.
- (D) The first space traveller was Dennis Tito, from the United States.

92. _ going to sleep, I like to read for half an hour.

- (A) After
- (B) Before
- (C) As soon as
- (D) While

93. Choose the right option to complete the following sentence: All the _ and ceremony of the royal marriage was telecast on TV.

- (A) Festival
- (B) Pomp
- (C) Happiness
- (D) Romp

94. Choose the word most similar in meaning to the given: REAL

- (A) Copied
- (B) Idea
- (C) Original
- (D) Given

95. In the following question four alternative sentences are given. Choose the CORRECT option:

- (A) The parent who I have offended often come around after a term of years and tell me that his son was right.
- (B) The parent who I have offended often comes around after a term of years and tell me that his son was right.
- (C) The parents whom I have offended often comes around after a term of years and tells that his son was right.
- (D) The parent whom I have offended often comes around after a term of years and tells me that his son was right.

96. Choose the correct narration: He asked me what my name was and what I did

- (A) He said to me, "What was my name and what did I do?"
- (B) He said to me, "What is your name and what do you do?"
- (C) He said to me, "What my name was and what I did?"
- (D) He said to me, "What his name was and what did he do?"

97. Spot the error. The child was fully dressed and sitting in her father's lap near the kitchen table.

- (A) Fully
- (B) Sitting in
- (C) Kitchen table
- (D) No error

98. The opposite of Vandalism is:

- (A) Corrupt
- (B) Compassionate
- (C) Protection
- (D) Standard

99. Identify the errors and choose the correct option:

- (A) Guliver travels was written to Swift.
- (B) Guliver travels was written at Swift.
- (C) Guliver's Travels was written by Swift.
- (D) Gulivers' Travel was written by Swift.

100. You did not kill a lion in the forest. Passive form of the sentence as:

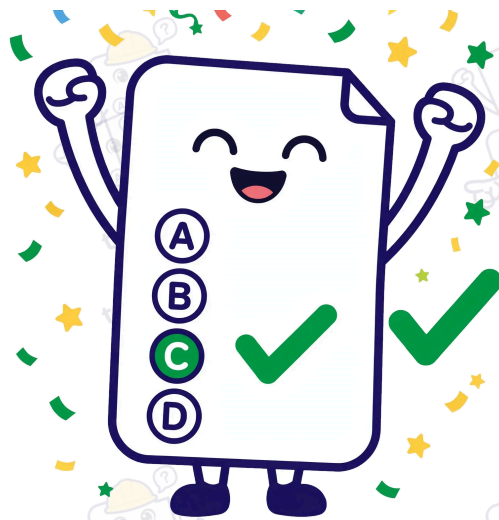
- (A) A lion is not killed by you in the forest.
- (B) A lion was not killed by you in the forest.
- (C) A lion is killed not by you in the forest.
- (D) A lion has not killed by you in the forest

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

1	A	2	D	3	B	4	D	5	D	6	B	7	B	8	A	9	C	10	C
11	C	12	B	13	B	14	B	15	C	16	C	17	C	18	C	19	D	20	C
21	C	22	C	23	C	24	D	25	D	26	C	27	C	28	D	29	B	30	B
31	A	32	B	33	A	34	A	35	A	36	A	37	B	38	C	39	C	40	A
41	C	42	B	43	A	44	A	45	B	46	B	47	B	48	D	49	C	50	A
51	B	52	B	53	B	54	D	55	A	56	D	57	C	58	D	59	B	60	D
61	C	62	D	63	A	64	D	65	A	66	B	67	A	68	C	69	A	70	C
71	C	72	A	73	C	74	A	75	C	76	A	77	B	78	D	79	B	80	C
81	D	82	D	83	D	84	C	85	D	86	C	87	D	88	C	89	A	90	A
91	A	92	B	93	B	94	C	95	D	96	B	97	B	98	C	99	C	100	B



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