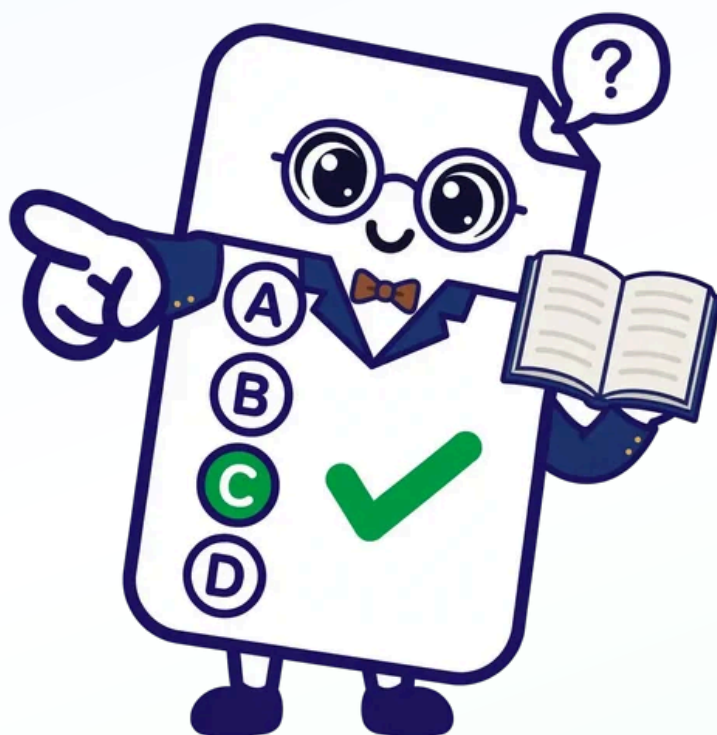




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100 MCQs across one paper, each drawn in the same subject split as the real Lecturer Chemistry Test paper:

- Chemistry: 80 MCQs per paper
- English: 5 MCQs per paper
- General Knowledge: 5 MCQs per paper
- Pakistan Studies: 4 MCQs per paper
- Pakistan Current Affairs: 3 MCQs per paper
- Islamic Studies: 2 MCQs per paper
- Computer Science and IT: 1 MCQs per paper



MODEL PAPER 1 OF 1

Lecturer Chemistry Test

100 MCQs · 120 minutes · answer key at the back



Chemistry

80 MCQs

1. Select the formula of 2-methyl pentane:

- ☐ A C₃H₁₂
- ☐ B C₅H₁₆
- ☐ C C₆H₁₂
- ☐ D C₆H₁₄

2. For endothermic reaction:

- ☐ A Forward activation energy < reverse activation energy
- ☐ B Forward activation energy = reverse activation energy
- ☐ C Forward activation energy > reverse activation energy
- ☐ D No change

3. Compound X reacts with Grignard's reagent to produce tertiary alcohols. What is the compound?

- ☐ A Aldehyde
- ☐ B Ketone
- ☐ C Acid halide
- ☐ D Carboxylic acid

4. High molecular mass compound was hydrolyzed the product was analyzed and found to be amino acid. The compound is:

- ☐ A Protein
- ☐ B Carbohydrate
- ☐ C Lipid
- ☐ D Vitamins

5. Ethylene Glycol is oxidized into carbolic Acid by:

- ☐ A Per Iodic acid
- ☐ B Lead tetra acetate
- ☐ C Acidified KMnO₄
- ☐ D Both (A) (B)

6. For the separation of gases from a mixture we use:

- ☐ A Simple diffusion
- ☐ B Fractional distillation
- ☐ C Chromatography
- ☐ D Graham's law of diffusion

7. A well-stoppered thermos flask containing some ice cubes is an example of:

- ☐ A closed system
- ☐ B open system
- ☐ C isolated system
- ☐ D None of the above

8. Natural chlorine occurs as a mixture of isotopes if a mixture contains 75% Cl^{35} and 25% Cl^{37} what will be its correct atomic weight?

- (A) 35.50
- (B) 34.50
- (C) 72.00
- (D) 70.00

9. Poly vinyl chloride (PVC) is the type of:

- (A) Homopolymer
- (B) Thermosetting polymer
- (C) Thermoplastic polymer
- (D) Copolymer

10. Which statement is wrong about the fourth state of matter known as plasma?

- (A) The plasma contains an equal amount of positive and negative charges and is almost neutral as a whole.
- (B) Plasma exists in the atmosphere of stars.
- (C) Plasma exists in the region around the sun.
- (D) There is less matter in the plasma state than in the solid, liquid, and gaseous states.

11. Chlorofluorocarbons are mainly responsible for:

- (A) Air pollution
- (B) Water pollution
- (C) Acid rain
- (D) Ozone layer depletion

12. Grignard reagents are prepared by the reaction of magnesium metal with alkyl halides in the presence of:

- (A) Dry Ether
- (B) Alcohol
- (C) CS_2
- (D) CCl_4

13. The bleaching action of bleaching powder is due to "available chlorine". It is the amount of chlorine

- (A) that is required for the preparation of bleaching powder
- (B) site free when excess of sulphuric acid is added to the bleaching powder
- (C) that is required for the generation of hypochlorine
- (D) Both B and C

14. Select the incorrect Statement:

- (A) Molecule may gain an electron to form a molecular anion.
- (B) Molecule may lose an electron to form a molecular cation.
- (C) Molecular cations are less abundant than molecular anions.
- (D) These molecular ions can be formed by passing a high-energy electron beam through a gas.

15. In glass manufacturing process, annealing is done for the prevention of

- (A) Relieving internal stress
- (B) Removing air bubbles
- (C) Eliminating impurities
- (D) Enhancing surface shine

16. One mole is the amount of substance that contains as many elementary entities as contained in:

- (A) 0.12 kg of ^{12}C
- (B) 1.2 kg of ^{12}C atom
- (C) 0.012 kg of ^{12}C atom
- (D) 0.12 kg of ^{16}O

17. If the pH of the solution is 9 its OH^- ions concentration is:

- (A) 10^{-5}
- (B) 5
- (C) 10^{-9}
- (D) 9

18. Carbylamine test is given by:

- (A) Primary amines
- (B) Secondary amines
- (C) Tertiary amines
- (D) All of these

19. In which of the following a covalent bond is not likely to exist?

- (A) Br
- (B) SiF
- (C) CaO
- (D) SeH_2

20. Warmer water at 40°C is:

- (A) Lighter
- (B) Highest
- (C) Heavier
- (D) Heaviest

21. According to Millikan's oil drop experiment, the charge on an oil droplet is:

- (A) Quantized
- (B) Integral multiple of 'e'
- (C) Not less than 'e'
- (D) All of the above

22. Which metal is used generally for the filament of electric bulbs?

- (A) Pt
- (B) Fe
- (C) Cu
- (D) W

23. The osmotic pressure of dilute solution is given below by relationship:

- (A) $\pi = iCRT$
- (B) $\pi = RCT/M$
- (C) $\pi = nRT/V$
- (D) $\pi = PV = nRT$

24. Fischer esterification is which type of reaction:

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

25. In contact process, to which substance are adequate quantities of water added to convert it to sulphuric acid?

- (A) H_2SO_7
- (B) HSO_4^-
- (C) SO_3
- (D) S

26. Which is a trimer of ethyne?

- (A) PVC
- (B) Benzene
- (C) Toluene
- (D) Teflon

27. The unit of 1st order rate constant are :

- (A) Sec
- (B) Sec^{-1}
- (C) $\text{Mol dm}^{-3}\text{sec}^{-1}$
- (D) None of the above

28. Brick red precipitates are formed when aldehydes react with:

- (A) Sodium borohydride
- (B) Sodium bisulphite
- (C) Sodium nitroprusside
- (D) Fehling's solution

29. If any amino acids contain greater number of NH_2 , it is:

- (A) Acidic
- (B) Neutral
- (C) Amphoteric
- (D) Basic

30. Which one of the following will give an ionic product?

- (A) $\text{CH}_3\text{CH}_2\text{OH} + \text{PCl}_5 \rightarrow$
- (B) $\text{CH}_3\text{CH}_2\text{OH} + \text{Na} \rightarrow$
- (C) $\text{CH}_3\text{CH}_2\text{OH} + \text{PCl}_3 \rightarrow$
- (D) $\text{CH}_3\text{CH}_2\text{OH} + 5\text{OCl} \rightarrow$

31. Which one is the separating technique:

- (A) Deliquescence
- (B) Fluorescence
- (C) Phosphorescence
- (D) Solvent extraction

32. For all adiabatic processes:

- (A) The entropy of the system does not change
- (B) The entropy of the system increases
- (C) The entropy of the system decreases
- (D) The entropy of the system does not decrease

33. Lithium reacts with air to form:

- (A) Li_2O
- (B) Li_2N
- (C) $\text{Li}_2\text{O}_2 + \text{Li}_2\text{CO}_3$
- (D) Both (a) & (b)

34. Which of the following polymers contain nitrogen?

- (A) PVC
- (B) Terylene
- (C) Nylon
- (D) Teflon

35. Which one of the following most closely resembles an ideal gas?

- (A) Xe
- (B) H_2
- (C) CO_2
- (D) He

36. Ozone layer in upper atmosphere is being destroyed by:

- (A) Chlorofluorocarbons
- (B) SO₂
- (C) Smog
- (D) Photochemical oxidation

37. The correct order of reactivity of alkyl halides is.

- (A) R-Br > R-Cl > R-F > R-I
- (B) R-Br > R-F > R-I > R-Cl
- (C) R-I > R-Br > R-Cl > R-F
- (D) R-Cl > R-I > R-Br > R-F

38. Which of the following is NOT considered to be an oxidizing agent?

- (A) MnO₂
- (B) Cl₂
- (C) NaOH
- (D) Na₂O₂

39. The relative abundance of the isotopes of the elements can be determined by:

- (A) Mass Spectrometry
- (B) X-rays
- (C) Chromatography
- (D) Solvent Extraction

40. AlI₃ (Aluminium Iodide) is electrically a _

- (A) Conductor
- (B) Non - conductor
- (C) Semiconductor
- (D) None of these

41. The mole fraction of NaCl, in a solution containing 1 mole of NaCl in 1000g of water is:

- (A) 0.0177
- (B) 0.001
- (C) 0.5
- (D) 0.244

42. Milk of magnesia is used for treatment of acidity in stomach, its formula is:

- (A) Mg(OH)₂
- (B) MgSO₄
- (C) Ca(OH)₂
- (D) CaSO₄

43. Which one of the following compounds show cis-trans isomerism?

- (A) 1-butene
- (B) 1-hexene
- (C) 1-bromo-2-chloropropene
- (D) Propene

44. Which of the following hybridization can explain the the shape of BeCl₂?

- (A) sp² hybridization
- (B) sp hybridization
- (C) sp³ hybridization
- (D) dsp² hybridization

45. The boiling point of compound is mostly raised by:

- (A) Dipole induced Dipole inter action
- (B) London dispersion forces
- (C) Intra molecular H - bonding
- (D) Inter molecuar H - bonding

46. Both H ion and helium atom have the same number of:

- (A) Proton
- (B) Electron
- (C) Neutrons
- (D) None of above

47. What is the formula of Dichloro-Bis-ethylenediamine cobalt (II)?

- (A) $[\text{Co}(\text{en})_2\text{Cl}_2]$
- (B) $[\text{Co}(\text{en})_2\text{Cl}_2]^{2-}$
- (C) $[\text{Co}(\text{en})_2\text{Cl}_2]^{1-}$
- (D) $[\text{Co}(\text{en})_2\text{Cl}_2]^{1+}$

48. Which of the following solution will have

- (A) 1 molar solution of urea
- (B) 1 molar solution of glucose
- (C) 1 molar solution of sodium chloride
- (D) 1 molar solution of magnesium chloride

49. Acetic acid is reacted with NH_3 , and resulting compound is strongly heated. Identify the compound formed?

- (A) $\text{CH}_3 - \text{NH}_2$
- (B) $\text{O} || \text{CH}_3 - \text{C} - \text{NH}_2$
- (C) $\text{O} || \text{CH}_3 - \text{C} - \text{H}$
- (D) $\text{CH}_3 - \text{C} \equiv \text{N}$

50. All of the following substances can act as Lewis acids except:

- (A) BF_3
- (B) H^+
- (C) AlCl_3
- (D) H_2O

51. Geometric isomerism is exhibited by:

- (A) Alcohol
- (B) Ethers
- (C) Alkynes
- (D) Alkenes

52. Select the chemical method used for the determination of the reaction rate:

- (A) Conductometry
- (B) Polarimetry
- (C) pH meter
- (D) Volumetric analysis

53. A carbonyl compound with molecular formula $\text{C}_5\text{H}_{10}\text{O}$ reacted with iodine in an alkaline solution to give a pale yellow precipitate with an antiseptic smell. The carbonyl compound is:

- (A) $\text{CH}_3\text{CH}_2\text{CH}_3\text{CH}_3\text{CHO}$
- (B) $\text{CH}_3\text{CH}_2\text{CH}_2\text{COCH}_3$
- (C) $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CHO}$
- (D) $\text{CH}_3\text{CH}_2\text{COCH}_2\text{CH}_3$

54. Acidic character of amino acid is due to:

- (A) $-\text{NH}_2$
- (B) $-\text{NH}_3^+$
- (C) $-\text{COOH}$
- (D) $-\text{COO}^-$

55. Which of the following reactions differentiates alcohol from phenol?

- (A) Lucas test
- (B) Halogenations
- (C) Nitration
- (D) Iodoform test

56. Which is the best drying agent in desiccators?

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

57. 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) $\Delta H = 0$

58. Graphite is one of the allotropic form of Carbon it is:

- (A) Isotropic
- (B) Anisotropic
- (C) good conductor of electricity
- (D) Both (b) & (c)

59. Nylon-6,6 is the polymer of:

- (A) Hexamethylene diamine and Adipic acid
- (B) Ethylene glycol and Phthalic acid
- (C) Ethylene glycol and Adipic acid
- (D) Hexamethylene diamine and Phthalic Acid

60. The same moles of H_2 , N_2 , and O_2 are present in 0.1 cc volume at STP. Which one has the greatest number of molecules:

- (A) N_2
- (B) H_2
- (C) O_2
- (D) Number of molecules are equal

61. The gases which are produced by burning of fossils fuels and are responsible for acid rain are:

- (A) CFCs
- (B) CO_2 and CO
- (C) HCl and Oxides of Nitrogen
- (D) SO_2 and Oxides of Nitrogen

62. Which class of halogenoalkane can react with alkali by an $\text{S}_\text{N}2$ mechanism?

- (A) Primary and secondary
- (B) Secondary and tertiary
- (C) Primary and tertiary
- (D) Primary, secondary and tertiary

63. In which of the following reaction hydrogen acts as oxidizing agent.

- (A) $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$
- (B) $\text{C}_2\text{H}_4 + \text{H}_2 \rightarrow \text{C}_2\text{H}_6$
- (C) $2\text{Na} + \text{H}_2 \rightarrow 2\text{NaH}$
- (D) $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$

64. Chemical shift in NMR spectroscopy is expressed as delta (δ) or tau (τ) scale. Choose the correct relationship between δ and τ :

- (A) $\delta = 10 - \tau$
(B) $\delta = 10 + \tau$
(C) $\tau = \delta - 10$
(D) $\tau = 10 - \delta$

65. 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

66. A laboratory experiment requires each student to use 10g of caustic soda (NaOH). A laboratory personnel opens a new 909g of said salt. If 42 students took exactly the required amount of salt, how much should be left in the container at the end of the experiment?

- (A) 1.07 kg
(B) 48.9 g
(C) 0.897 g
(D) 0.489 kg

67. A solid compound dissolves readily in water to give a weakly alkaline solution. On evaporation of the water, X was recovered unchanged. Which one of the following could be X?

- (A) $\text{CH}_3\text{NH}_3\text{Cl}$
(B) $\text{CH}_3\text{O}^- \text{Na}^+$
(C) $\text{C}_6\text{H}_5\text{O}^- \text{Na}^+$
(D) $\text{C}_6\text{H}_5\text{NH}_2$
(E) $\text{H}_2\text{NCH}_2\text{CO}_2\text{H}$

68. Catenation is a process in which carbon shows the properties of making

- (A) Multiple bonds
(B) Hybridization
(C) Long chain or rings of carbon atom
(D) Showing isomerism

69. Which is the least polar molecule?

- (A) HF
(B) HI
(C) HCl
(D) HBr

70. The boiling point of ether is less as compared to alcohols and phenols due to:

- (A) Functional group
(B) Intermolecular forces
(C) Nature of alkyl groups
(D) Isomerism

71. Which of the following species has the maximum number of unpaired electrons?

- (A) O_2
(B) O^{+2}
(C) O^{2-}
(D) O_2^{2-}

72. Label the element in the first series of outer transition elements that has highest binding energy.

- (A) Titanium
- (B) Vanadium
- (C) Chromium
- (D) Manganese

73. Lowering in vapour pressure is the highest for:

- (A) 0.2 M urea
- (B) 0.1 M Glucose
- (C) 0.1 M MgSO_4
- (D) 0.1 M BaCl_2

74. Choose reactants whose reaction product is ester:

- (A) CH_3COOH and CH_3OCH_3
- (B) CH_3COOH and $\text{C}_2\text{H}_5\text{OH}$
- (C) CH_3COOH and CH_3CHO
- (D) CH_3COOH and CH_3COCH_3

75. Which of the following is basic buffer?

- (A) $\text{NH}_4\text{OH}/\text{NH}_4\text{Cl}$
- (B) NaOH/NaCl
- (C) NaOH/HCl
- (D) $\text{H}_2\text{CO}_3/\text{NaHCO}_3$

76. In a reaction of ethane and hydrochloric acid, the hydrogen ion acts as:

- (A) Nucleophiles
- (B) Electrophiles
- (C) Carbon ions
- (D) Carbonium ions

77. In the reaction $\text{A} + \text{B} \rightarrow \text{Products}$ if B is taken in excess then it is an example of:

- (A) Second order reaction
- (B) Zero order reaction
- (C) Pseudo - unimolecular reaction
- (D) First order reaction

78. Acetadeftyde on oxidation by Na, Cr, O/H SO, gives:

- (A) CH_3COOH
- (B) $\text{C}_2\text{H}_5\text{OH}$
- (C) OHC.OHC
- (D) None of the above

79. α -amino acids are compounds having carboxylic acid as well as amino functional groups attached to:

- (A) Any H-atom in the molecule
- (B) Same carbon atom
- (C) Alternate carbon atoms
- (D) Neighboring carbon atoms

80. Which of the following alcohols on reaction with $\text{K}_2\text{Cr}_2\text{O}_7$ I H_2SO_4 will give an alkene?

- (A) $\text{CH}_2 - \text{CH}_2 - \text{OH}$
- (B) $\text{OH} | \text{CH}_3 - \text{CH} - \text{CH}_3$
- (C) $\text{CH}_3 | \text{CH}_3 - \text{CH}_2 - \text{C} - \text{OH} | \text{CH}_3$



English

5 MCQs

81. 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.

82. One often asks _ what will come next. Which one of the following pronouns will best fill in the blank?

- (A) oneself
- (B) himself
- (C) herself
- (D) themselves

83. Select the nearest correct meaning of the word given. Aghast

- (A) Critical
- (B) Reluctant
- (C) Happy
- (D) Horrified

84. Identify the MISTAKE in the following question: I remember going to the British museum one day to read for the treatment for some slight ailment of which I had a touch-hay fever, I fancy it was.

- (A) Going to
- (B) Read for
- (C) Of which
- (D) I had

85. Maria _ that she could not attend classes next week.

- (A) Told his professors
- (B) Said her professors
- (C) Told her professors
- (D) Is telling her professors



General Knowledge

5 MCQs

86. The Picture on the back of 50 Rupee Pakistani Note?

- (A) Karakoram Peak
- (B) Kangchenjunga
- (C) Mount Everest
- (D) Naga Perbat

87. "Long Walk to Freedom" is an autobiography of _____?

- (A) Martin Luther King
- (B) Nelson Mandela
- (C) Desond Titu
- (D) Michael Troot

88. During the first trip of Donald Trump to Saudi Arabia, the two countries signed a _____ arms deal?

- ☐ A \$110 billion
- ☐ B \$140 billion
- ☐ C \$80 billion
- ☐ D \$50 billion

89. " DIA " is the intelligence agency of _____?

- ☐ A U.K
- ☐ B Turkey
- ☐ C U.S
- ☐ D Australia

90. Epsom (England) is the place associated with

- ☐ A horse racing
- ☐ B polo
- ☐ C shooting
- ☐ D snooker



Pakistan Studies

4 MCQs

91. Which area has the biggest deposits of iron ore?

- ☐ A Koh-i-Sultan
- ☐ B Chitral
- ☐ C Koh-i-Sulaiman
- ☐ D Kalabagh

92. Justice Mian Saqib Nisar took oath as Chief justice of Pakistan on _____?

- ☐ A 25 December 2016
- ☐ B 31 December 2016
- ☐ C 1 January 2017
- ☐ D 15 January 2017

93. Punjab Land alienation act was passed in: _____?

- ☐ A 1900
- ☐ B 1905
- ☐ C 1907
- ☐ D None of these

94. How many founding members OIC has at the time of its establishment?

- ☐ A 20
- ☐ B 25
- ☐ C 30
- ☐ D 35



Pakistan Current Affairs

3 MCQs

95. Saudi Arabia will invest _____billion dollar in Oil Refinery and Petro-Chemical Complex in Gawadar,Pakistan???

- ☐ A \$10
- ☐ B \$6
- ☐ C \$3
- ☐ D \$4

96. The Provincial assemblies of Sindh and Khyber Pakhtunkhwa stand dissolved as they completed their five-year constitutional term on _____?

- (A) 26 May 2018
- (B) 27 May 2018
- (C) 29 May 2018
- (D) 28 May 2018

97. Despite winning national and international titles, Banaras Khan is seen making rotis at a tandoor to make ends meet. He holds which of the following titles?

- (A) Mr. Universal USA
- (B) Wapda Pakistan
- (C) Mr. Pakistan
- (D) All



Islamic Studies

2 MCQs

98. When the month of Ramazan comes, the doors of the Heaven are opened and the doors of hell are closed."It is_____.

- (A) Hadith
- (B) Quranic Ayat
- (C) Both (a) & (b)
- (D) None of these

99. How many Sunnah's are in four obligations of Ablution?

- (A) 10
- (B) 13
- (C) 18
- (D) 15



Computer Science and IT

1 MCQs

100. C#`#include <stdio.h> int main { int x = 2; int y = 2 * x++ + 3 * ++x; printf("x = %d, y = %d\n", x, y); return 0;}` What is the output of this code?

- (A) x = 3, y = 13
- (B) x = 5, y = 17
- (C) x = 4, y = 14
- (D) x = 4, y = 17

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

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



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