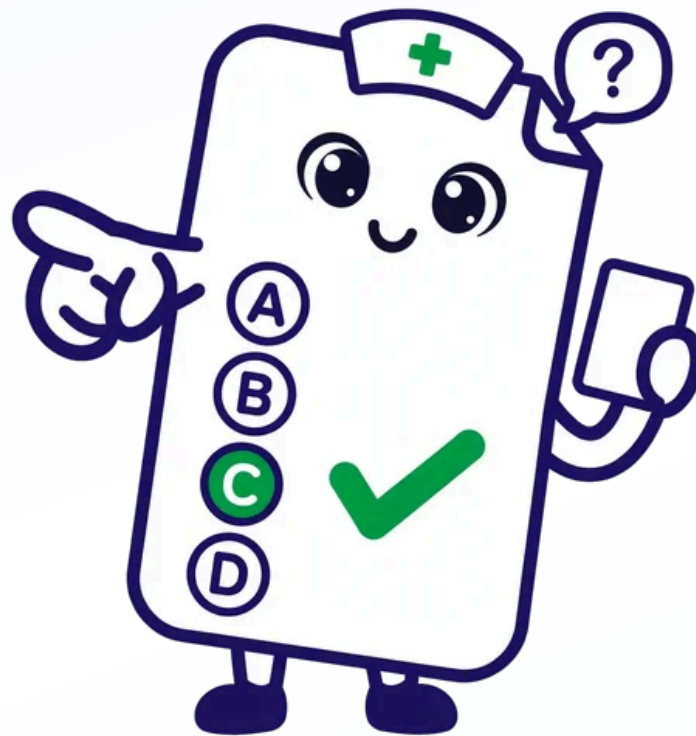




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# BSN Nursing Entry Test Preparation Book 2026

A full model paper in the real BSN Entry Test pattern, with answer key



100 MCQs

Real BSN Entry Test subject split

Answer key + online explanations

## How to use this book

1. Sit each model paper in one go, in 120 minutes, with a pen and the answer sheet of your choice.
2. Mark yourself with the answer key at the back.
3. Every answer in the key is a link. Tap it to read why that option is right on TestUstad, free.

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## What is in this book

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

- Biology: 40 MCQs per paper
- Chemistry: 25 MCQs per paper
- Physics: 20 MCQs per paper
- English: 15 MCQs per paper



MODEL PAPER 1 OF 1

# BSN Nursing Entry Test

100 MCQs · 120 minutes · answer key at the back



## Biology

40 MCQs

### 1. Why thick filaments are unable to bind with thin filament in a relaxed muscle fiber?

- ☐ A Actin blocks the myosin binding site
- ☐ B Tropomyosin blocks the myosin binding site
- ☐ C Troponin blocks the myosin binding site
- ☐ D Tropomyosin blocks the troponin binding site

### 2. Which one of the following is the palindromic sequence?

- ☐ A GATC
- ☐ B GGTT
- ☐ C CGAT
- ☐ D TTCC

### 3. Which one is a Sexually Transmitted Disease?

- ☐ A Syphilis
- ☐ B Measles
- ☐ C Polio
- ☐ D Tetanus

### 4. D.N.A of bacterium is:

- ☐ A Haploid, single stranded, coiled
- ☐ B Diploid, double stranded, coiled
- ☐ C Haploid, double stranded, coiled
- ☐ D Diploid, single stranded, coiled

### 5. The gland that serve as both exocrine and Endocrine is/are:

- ☐ A Pancreas
- ☐ B Gonads
- ☐ C Adrenal gland
- ☐ D Both (A) & (B)

### 6. Tissue plasminogen activator (TPA) is used for:

- ☐ A Treating anemia
- ☐ B Bone marrow transplant
- ☐ C Dissolving blood clot
- ☐ D Treatment of cancer

### 7. 6-NADH can yield:

- ☐ A 12-ATP
- ☐ B 38-ATP
- ☐ C 18-ATP
- ☐ D 36-ATP

### 8. Law of independent assortment cannot be applied on:

- ☐ A Dominant genes
- ☐ B Recessive genes
- ☐ C Linked genes
- ☐ D Autosomal genes

9. In humans, the largest body organ is:

- (A) Liver
- (B) Skin
- (C) Brain
- (D) Lungs

10. Identify the mismatch pair in the following:

- (A) Cyanobacteria - primary producer
- (B) Grasshopper - primary producer
- (C) Fungi - Decomposer
- (D) Zooplankton - secondary consumer

11. The mesodermal cell which give rise to urinary system in frog are called:

- (A) Pincer cells
- (B) Blastomers
- (C) Nephrotome
- (D) Parietal

12. Normally vaccination can be done at any age for

- (A) Measles
- (B) Hepatitis
- (C) Diphtheria
- (D) Polio

13. Which of the following is not true for retroviruses?

- (A) They are cuboidal in shape
- (B) They are enveloped by host plasma membrane
- (C) They do have enzyme reverse transcriptase
- (D) All of them are not specific

14. Which is an enzyme activator secreted by the intestinal glands:

- (A) Amylase
- (B) Pepsinogens
- (C) Enterokinase
- (D) Lipase

15. Flow of blood in the capillaries is adjusted by?

- (A) Heart directly
- (B) Pre-capillary sphincters
- (C) Meta-arterioles
- (D) Valves

16. Premature death of plants is caused by the deficiency of:

- (A) Magnesium
- (B) Iron
- (C) Phosphorus
- (D) Potassium

17. Rhizobium belong to sub group of bacteria called:

- (A) Alpha-Protobacteria
- (B) Beta-Protobacteria
- (C) Gamma-Protobacteria
- (D) Delta-Protobacteria

18. Smooth muscles are found in all the mentioned below except:

- (A) Trachea
- (B) Bronchi
- (C) Bronchioles
- (D) Alveoli

**19. Which of the following shows evidence from evolution through molecular biology?**

- ☐ A Development of branchial arches invertebrate embryo.
- ☐ B Distribution of species
- ☐ C Comparison of genes and proteins in different species
- ☐ D Study of vestigial organs

**20. According to Lock and Key model, the active site is regarded as:**

- ☐ A Rigid and specific
- ☐ B Flexible and specific
- ☐ C Rigid and non specific
- ☐ D Flexible and non specific

**21. Homeostasis thermostat is present in the brain:**

- ☐ A Hypothalamus
- ☐ B Medulla
- ☐ C Cerebrum
- ☐ D Pons

**22. The hamstring muscles are present**

- ☐ A at the back of the upper part of the leg
- ☐ B at the front of the upper part of the leg
- ☐ C at the back of the lower part of the leg
- ☐ D at the front of the lower part of the leg

**23. Most of the monosaccharides form a ring structure when in solution. For example, ribose will create a five cornered ring known as:**

- ☐ A Glucopyranose
- ☐ B Ribofuranose
- ☐ C Glyceraldehyde
- ☐ D Acetaldehyde

**24. The follicle stimulating hormone secreted by the pituitary glands stimulates the growth of:**

- ☐ A Uterus
- ☐ B Ovaries
- ☐ C Graffian follicles
- ☐ D Urinary bladder

**25. Why it is said that plasma membrane is asymmetrical:**

- ☐ A Proteins are not fixed at their position
- ☐ B Hydrophobic tail facing inward and hydrophilic head facing outward
- ☐ C The two surfaces and halves are not identical
- ☐ D Cholesterol molecules are only present inside

**26. The change of behavior by life experiences is called:**

- ☐ A Instinct
- ☐ B Maturation
- ☐ C Learning
- ☐ D Imprinting

**27. Chemicals produced by microorganisms which are capable of destroying the growth of microbes are called:**

- ☐ A Antigen
- ☐ B Biocidal
- ☐ C Antiseptics
- ☐ D Antibiotics

**28. If oxygen is available, the complete breakdown of glucose produces \_\_\_\_\_ ATP molecules in prokaryotes.**

- ☐ A 201
- ☐ B 36
- ☐ C 38
- ☐ D 40

**29. When true breeding red and white flowering plants were crossed, all pink offsprings were produced. When these pink flowered plants were self crossed, the percent of pink flowering offsprings would be**

- ☐ A 25%
- ☐ B 50%
- ☐ C 75%
- ☐ D 100%

**30. The part of the body which forms a structural and functional unit and is composed of more than one tissue is called**

- ☐ A Organ
- ☐ B Organelle
- ☐ C Organ system
- ☐ D Whole organism

**31. Rabbits, parrots, rats grasshoppers and grasses constitute a**

- ☐ A Habitat
- ☐ B Biome
- ☐ C Community
- ☐ D Population

**32. Which germinal layer develops in the digestive system?**

- ☐ A Ectoderm
- ☐ B Mesoderm
- ☐ C Epidermis
- ☐ D Endoderm

**33. Which of the following vaccine has least side effects:**

- ☐ A Attenuated vaccine
- ☐ B Killed vaccine
- ☐ C Subunit vaccine
- ☐ D Toxoid vaccine

**34. The only human disease caused by Viroid is**

- ☐ A Hepatitis A
- ☐ B Hepatitis B
- ☐ C Hepatitis C
- ☐ D Hepatitis D

**35. The role of parietal cells of mucosa is:**

- ☐ A Protein digestion
- ☐ B HCl secretion
- ☐ C Protein absorption
- ☐ D HCl inhibition

**36. The valve between left atrium and left ventricle is :**

- ☐ A Semi lunar valve
- ☐ B Tricuspid valve
- ☐ C Pulmonary valve
- ☐ D Bicuspid valve

**37. Chlorophyll a and b chiefly absorb:**

- ☐ A Violet blue light
- ☐ B Orange light
- ☐ C Blue-red light
- ☐ D Red, orange light

**38. When an anopheles of mosquito bites a healthy person it injects:**

- ☐ A Merozoites
- ☐ B Sporozoites
- ☐ C Gametocytes
- ☐ D Oocytes

**39. Which one of the following acts as functional unit of lungs in man?**

- ☐ A Air sac
- ☐ B Trachea
- ☐ C Larynx
- ☐ D Bronchioles

**40. If all the members of a population are homozygous for the same allele, that allele is said to be:**

- ☐ A Random in population's pool
- ☐ B Random in a species
- ☐ C Fixed in population's pool
- ☐ D Fixed in the gene pool



## Chemistry

25 MCQs

**41. What is the colour of iodine in the non polar solvent, cyclohexane?**

- ☐ A Black
- ☐ B Brown
- ☐ C Purple
- ☐ D Yellow

**42. How many moles of CO<sub>2</sub> contain 16g of oxygen?**

- ☐ A 5 mol
- ☐ B 16 mol
- ☐ C 0.5 mol
- ☐ D 2 mol

**43. Select the nucleophile from the following examples:**

- ☐ A NO<sub>2</sub>
- ☐ B NH<sub>3</sub>
- ☐ C NO<sub>2</sub><sup>+</sup>
- ☐ D NH<sub>4</sub><sup>+</sup>

**44. According to Kinetic Molecular Theory:**

- ☐ A no attraction and repulsion forces between molecules
- ☐ B yom
- ☐ C yo O poc- 1
- ☐ D poc-

45. Which of the following furnaces is used for the production of wrought iron?

- (A) Open hearth furnace
- (B) Reverberatory furnace
- (C) Bessemer converter
- (D) Blast furnace

46. The partition coefficients of Iodine distribution between two immiscible liquids, water and carbon (tetrachloride) is given below: Choose the correct statement about the system:

- (A) Iodine is extracted from  $\text{CCl}_4$  layer by water
- (B) Iodine is extracted from aqueous layer by  $\text{CCl}_4$
- (C) Iodine is more soluble in water than  $\text{CCl}_4$
- (D) The value of K depends on the amount of Iodine added

47. Commercial hydrogen can be obtained by the action of a steam on:

- (A) Water gas
- (B) Coal gas
- (C) Producer gas
- (D) None of these options

48. The ring test is shown by compounds having:

- (A) Sulphate radical
- (B) Chloride radical
- (C) Nitrate radical
- (D) None of the above

49. rate of reaction independent to concentration reaction is

- (A) zero order reaction
- (B) 1 order reaction
- (C) 2 order reaction
- (D) 3 order reaction

50. The stability in the following structure is due to the:

- (A) Disulphide bridges
- (B) Weak Van Der Waal's forces
- (C) Presence of unpaired electron in the structure.
- (D) Hydrogen bonding between NH group of one peptide and CO group of another peptide.

51. Shape of orbital is determined by quantum number:

- (A) n
- (B) l
- (C) m
- (D) s

52. In an electrochemical series, standard electrode potentials are arranged on the basis of:

- (A) pH scale
- (B) pOH scale
- (C) Hydrogen Scale
- (D) pKa scale

53. 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

54. Which one of the following will not undergo dehydrogenation?

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

55. What is the ionic strength of 0.01M barium chloride solution :

- (A) 0.03 (B) 0.02  
(C) 0.04 (D) 0.01

56. Reaction of triglycerides with alkalis is called:

- (A) Hydration (B) Saponification  
(C) Hardening (D) Dehydration

57. The values of ionic product  $K_w$  are  $0.64 \times 10^{-14}$  at 180 C, and  $1 \times 10^{-14}$  at 25 C from this may be derived that

- (A) Endothermic process (B) Exothermic process  
(C) Vaporization process (D) Change of  $\text{H}_2\text{O}$  into  $\text{O}_2$  and  $\text{H}_2$

58. In which of the following solvents are alkenes the more soluble?

- (A) Water (B) Ethyle alcohol  
(C) Ammonia (D) Carbon tetrachloride

59. Which one of the following compounds is an additional polymer?

- (A) Polyvinyl chloride (B) Nylon  
(C) Carbohydrate (D) Polyester

60. Fajan's rule states that small, highly charged ions tend to form more:

- (A) ionic compounds (B) polymeric compounds  
(C) covalent compounds (D) coordination compound

61. Identify a mixture of two organic solvents that are used in nail polish remover.

- (A) Benzene and acetone (B) Benzene and  $\text{CS}_2$   
(C) Ethyl acetate and  $\text{CS}_2$  (D) Acetone and ethyl acetate

62. The alpha bond formed between carbon and oxygen atoms in aldehyde and ketone is due to the overlap of:

- (A)  $\text{sp}^2 - \text{sp}$  (B)  $\text{sp}^2 - \text{sp}^2$   
(C)  $\text{sp}^3 - \text{sp}^2$  (D)  $\text{sp} - \text{sp}$

63. Name which one of the following gas is not pollutant?

- (A) Sulphur dioxide (B) Carbon monoxide  
(C) Carbon dioxide (D) Nitrogen dioxide

64. Fizzy drinks contain dissolved  $\text{CO}_2$ . The  $\text{CO}_2$  reacts with  $\text{H}_2\text{O}$  to form weak acid which is called:

- (A) Acetic acid
- (B) Carbonic acid
- (C) Lactic acid
- (D) Formic acid

65. All of the following tests are used to identify aldehydes except

- (A) Talons test
- (B) Fehling test
- (C) Bacyer test
- (D) Benedict test



## Physics

20 MCQs

66. If length of a spanner is 'I' and a force 'F' is applied on it to tighten a nut such that it passes through the pivot point, then torque is:

- (A) Zero
- (B) FI
- (C)  $FI \sin \theta$
- (D)  $FI \sin \theta \lambda$

67. A capacitor which has a capacitance of 1 farad (F) will:

- (A) Be fully charged in 1 second by a current of 1 Ampere
- (B) Store 1 coulomb of charge at potential difference of 1 volt
- (C) Gain 1 joule of energy when 1 coulomb of charge is stored on it
- (D) Discharge in 1 second when connected across a resistor of resistance 3 ohms

68. Resistance of a wire is 'R' ohms. The wire is stretched to four times its length, then its resistance in ohms is

- (A)  $R/4$
- (B)  $4R$
- (C)  $16R$
- (D)  $R/2$

69. In a double-slit experiment, two slits are 0.2 mm apart with a screen at a distance of 1m. The third bright fringe is found to be displaced at a distance of 7.5 mm from the central fringe. What is the value of the wavelength?

- (A) 0.03 mm
- (B) 0.004 mm
- (C) 0.00006 mm
- (D) 0.0005 mm

70. A vertical steel wire X of circular cross-section is used to suspend a load. A second wire Y, made of the same material but having twice the length and twice the diameter is used to suspend an equal load. What is the value of the ratio?

- (A)  $1/1$
- (B) 1
- (C) 2
- (D) 4

71. Force on a current carrying conductor in a uniform magnetic field is:

- (A)  $F = NIA \cos \alpha$
- (B)  $F = \mu nI$
- (C)  $F = ILB \sin \alpha$
- (D)  $F = ILA \cos \alpha$

**72. A bullet penetrating 30cm into its target loses its velocity by 50%. What additional distance will it penetrate into the target before it comes to rest?**

- ☐ A 30 cm
- ☐ B 20 cm
- ☐ C 10 cm
- ☐ D 5 cm

**73. The capacitive reactance of the AC circuit increases:**

- ☐ A By increasing the frequency of AC
- ☐ B By decreasing the frequency of AC
- ☐ C Does not depend upon the frequency of the AC voltage
- ☐ D None of these

**74. When electromagnetic radiation falls on a surface, then the angle between reflected light and refracted light is 90 deg at an angle, called:**

- ☐ A Critical angle
- ☐ B At any angle, both rays are perpendicular
- ☐ C Brewster's angle
- ☐ D Inclination angle

**75. Current in the semiconductors is caused by the movement of:**

- ☐ A Protons
- ☐ B Electrons only
- ☐ C Holes only
- ☐ D Both electrons and holes

**76. Solar energy at normal incidence outside the earth's atmosphere is about:**

- ☐ A 2.5 kWm<sup>-2</sup>
- ☐ B 0.6 kWm<sup>-2</sup>
- ☐ C 1.4 kWm<sup>-2</sup>
- ☐ D 2.0 kWm<sup>-2</sup>

**77. Which of the following is NOT TRUE?**

- ☐ A Action and reaction have same nature
- ☐ B Action and reaction have same line of action
- ☐ C Action and reaction never act on same body
- ☐ D Action and reaction can cancel each other

**78. Laser is a potential energy source for inducing which type of reaction?**

- ☐ A Radioactive
- ☐ B Fission
- ☐ C Ionization
- ☐ D Fusion

**79. The curved shape of an airplane wing causes air to move faster over the top surface. This leads to:**

- ☐ A Greater pressure on the top
- ☐ B Lower pressure on the top
- ☐ C Equal pressure on both sides
- ☐ D Zero pressure above the wing

80. The life time of an electron in state is times more than an ordinary excited state.

- (A)  $10^3$
- (B)  $10^5$
- (C) 100
- (D)  $10^8$

81. The SI unit of gravitational potential is :

- (A) J/kg
- (B) J/(m kg)
- (C) J/(m s)
- (D) Js

82. The dimension of torque are :

- (A) (MLT)
- (B) (M<sup>2</sup> L<sup>2</sup> T)
- (C) (ML<sup>2</sup> T<sup>-2</sup>)
- (D) (ML<sup>2</sup> T<sup>2</sup>)

83. Three vectors of equal magnitude are acting on the three sides of an equilateral triangle. The magnitude of their resultant is:

- (A) zero
- (B) 3
- (C)  $\sqrt{3}$
- (D) 1.73

84. Lenz's law is a particular form of the law of conservation of:

- (A) Charge
- (B) Current
- (C) Energy
- (D) Magnetic field

85. The rapid escape of air from a burst tire is an example of

- (A) Adiabatic processes
- (B) Isothermal process
- (C) Cooling process
- (D) First law of thermodynamics



## English

15 MCQs

86. The story jumped off the page. Which poetic device has been used in this line?

- (A) Metaphor
- (B) Paradox
- (C) Oxymoron
- (D) Personification

87. Identify the sentence with no spelling error:

- (A) Imtiaz invited me on a dinner party at restaurant.
- (B) Imtiaz invited me on a diner party at restaurant.
- (C) Imtiaz invited me on a dinner party at resturant.
- (D) Imtiaz invited me on a dinnar party at restaurent.

88. Select the correct meaning of the given word. ILK

- (A) Breed
- (B) Civilization
- (C) Origin
- (D) Culture

89. Though Aleem is poor \_ he is honest.

- (A) But
- (B) Nevertheless
- (C) Yet
- (D) Still

90. A reeling road, a rolling road, that rambles round the shire. Which poetic device has!Metaphor Alliteration Simile Allusion been used in this line?

- (A) Metaphor
- (B) Alliteration
- (C) Simile
- (D) Allusion

91. Identify the error in the sentence. The chef quickly prepared, delicious and it served a meal.

- (A) Punctuation
- (B) Style
- (C) Vocabulary
- (D) Word order

92. Choose the correct option:

- (A) Hand up the answer sheet to me.
- (B) Hand over the answer sheet to me.
- (C) Hand down the answer sheet to me.
- (D) Hand for the answer sheet to me.

93. Fill in the blank with appropriate option.You \_ drive fast. We have plenty of time.

- (A) Will not
- (B) Shall not
- (C) Must not
- (D) Need not

94. The manager accepted the cashier's \_\_\_\_\_ for coming late.

- (A) expalanation
- (B) explanation
- (C) explnasion
- (D) explanation

95. The word opposite in meaning to drummed is:

- (A) Throbbled
- (B) Pulsated
- (C) Permitted
- (D) Beaten

96. Choose the correct option:

- (A) Bill Gates is one of the wealthiest person in the world.
- (B) Bill Gates is one of the wealthy persons in the world.
- (C) Bill Gates is one of the wealthiest persons in the world.
- (D) Bill Gates is one of the more wealthy person in the world.

97. Choose the correct option:

- (A) Then he sat down in the corner and, remained quite.
- (B) Then he sat down in corner and remained quite.
- (C) Then he sat down in the corner and remain quiet.
- (D) Then he sat down in the corner and remained quiet.

**98. 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.

**99. The word REPROACH means:**

- (A) Approach again
- (B) Reach again
- (C) Blame
- (D) Praise

**100. Fill in the blanks with the most appropriate option. When we went to cinema, the film \_.**

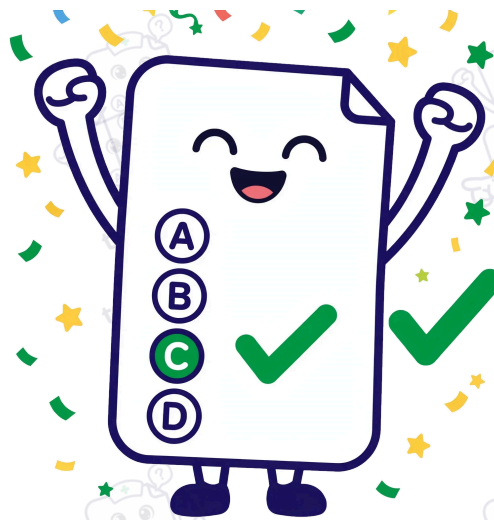
- (A) Already started
- (B) Had already started
- (C) Would already start
- (D) Started already

## Answer key

Tap any answer to open its full explanation on TestUstad.

### Model Paper 1

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



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