

Set - 1 Full Length Test - 2025

By CEE Nepal Preparation

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1 - 50 -> Physics

51 - 100 -> Chemistry

101 - 140 -> Botany

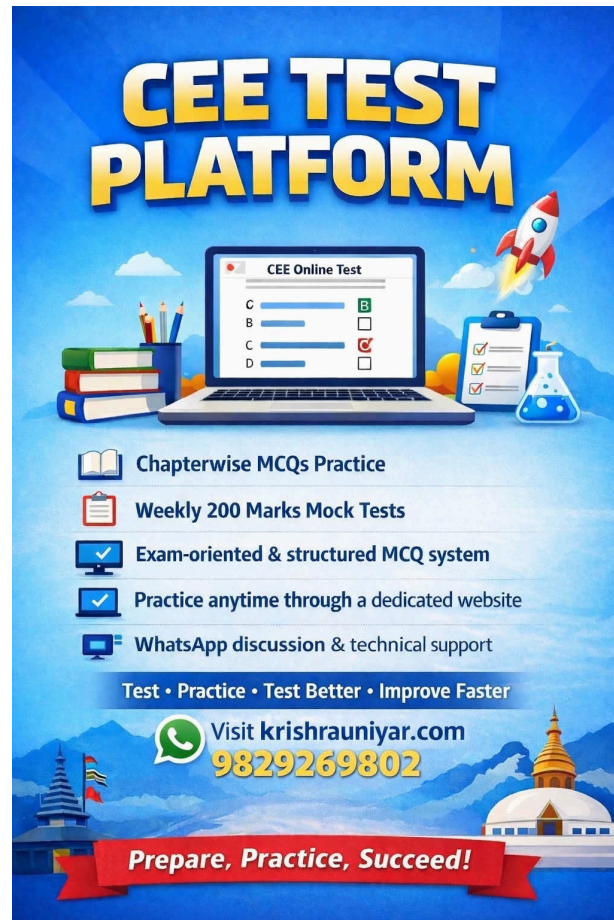
141 - 180 -> Zoology

181 - 200 -> MAT

* Indicates required question

1. Email *

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4. 1. $[ML^{-1}T^{-1}]$ is the dimensional formula of: *

1 point

Mark only one oval.

- a. Surface Tension
- b. Angular Momentum
- c. Stress
- d. Coefficient of Viscosity

5. 2. Most accepted theory of the origin of the universe is: *

1 point

Mark only one oval.

- a. Big Bang theory
- b. Steady State theory
- c. String Theory
- d. Static Universe Theory

6. 3. P-type semiconductor is made by doping trivalent impurity with germanium. Which of the following doping makes P-type semiconductor? *

1 point

Mark only one oval.

- a. Arsenic
- b. Phosphorous
- c. Indium
- d. Antimony

7. 4. Unit of self inductance is: *

1 point

Mark only one oval.

- a. Volt amp/sec
- b. Volt sec/amp
- c. Volt / amp
- d. Joule/amp

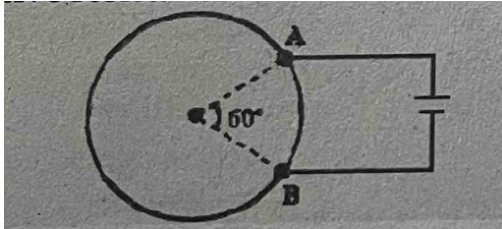
8. 5. Choose the wrong: *

1 point

Mark only one oval.

- a. Luminous flux = lumen
- b. Luminous intensity = candela
- c. Intensity of illumination = lux
- d. Luminous flux = lumen/m²

9. 6. A uniform wire of resistance 36 ohm, is bent in the form of a circle. A battery is connected between positions A and B as shown. The effective resistance between A and B is: * 1 point



Mark only one oval.

- a. 18 ohm
 b. 6 ohm
 c. 30 ohm
 d. 5 ohm

10. 7. Resolving power of telescope is: * 1 point

Mark only one oval.

- a. $1.22 / \lambda D$
 b. $1.22\lambda / D$
 c. $D / 1.22\lambda$
 d. $D\lambda / 1.22$

11. 8. The work function of sodium is 2 eV . When the light of wavelength 500 nm is incident on its surface, the maximum velocity of photoelectrons will be: * 1 point

Mark only one oval.

- a. 413 km/s
 b. 430 km/s
 c. 513 km/s
 d. 220 km/s

12. 9. Find the wavelength of an electron moving with a velocity of 300 km/s. * 1 point

Mark only one oval.

- a. $2.9093 \times 10^{-12} \text{ m}$
 b. $2.427 \times 10^{-9} \text{ m}$
 c. $3.55 \times 10^{-11} \text{ m}$
 d. $2.7 \times 10^{-13} \text{ m}$

13. 10. Half life = 1.28×10^5 seconds, the average life is: * 1 point

Mark only one oval.

- a. 1.84×10^5 seconds
 b. 1.58×10^5 seconds
 c. 1.28×10^5 seconds
 d. 1.4×10^5 seconds

14. 11. Property of retentivity is used in: *

1 point

Mark only one oval.

- a. Transformer
- b. Electromagnet
- c. Permanent magnet
- d. Galvanometer

15. 12. Which one is correct regarding Zener diode? *

1 point

Mark only one oval.

- a. Ordinary diode has high reverse breakdown voltage than Zener diode
- b. Ordinary diode has low reverse breakdown voltage than Zener diode
- c. Ordinary diode and Zener diode have same reverse breakdown voltage
- d. Ordinary diode can be used as a Zener diode

16. 13. Phase difference between current and voltage in LCR circuit: *

1 point

Mark only one oval.

- a. 0
- b. $\pi/2$
- c. $0 \pm \pi/2$
- d. π

17. 14. Minimum capacitance obtained by joining 5 capacitors of 1 micro farad each is: *

1 point

Mark only one oval.

- a. $0.2\mu\text{F}$
- b. $1\mu\text{F}$
- c. $0.5\mu\text{F}$
- d. $1.5\mu\text{F}$

18. 15. Which is correct about achromatic combination of lens? *

1 point

Mark only one oval.

- a. $f_1 / f_2 = \omega_1 / \omega_2$
- b. $f_1 / f_2 = -\omega_1 / \omega_2$
- c. $f_1 / f_2 = \omega_2 / \omega_1$
- d. $f_1 / f_2 = -\omega_2 / \omega_1$

19. 16. Forbidden energy gap: *

1 point

Mark only one oval.

- a. Maximum for conductor
- b. Of insulator lies between that of conductor and semiconductor
- c. Maximum for insulator
- d. Minimum for semiconductor

20. 17. Escape velocity of earth is 11.2 km/s. Escape velocity of a planet whose g is twice that of earth and diameter is twice that of earth is: * 1 point

Mark only one oval.

- a. 11.2 km/s
 b. 22.4 km/s
 c. 44.8 km/s
 d. 33.6 km/s

21. 18. Resistance of two bodies r and $2r$ respectively, are connected in series across a battery. Find the ratio of heat consumed in $2r$ and r . * 1 point

Mark only one oval.

- a. 1:2
 b. 2:1
 c. 1:4
 d. 4:1

22. 19. A person goes to office with 40 km/hr and returns home with 60 km/hr. What is his average speed? * 1 point

Mark only one oval.

- a. 100 km/hr
 b. 50 km/hr
 c. 48 km/hr
 d. 0 km/hr

23. 20. Penetrating power is maximum for: * 1 point

Mark only one oval.

- a. Alpha ray
 b. Beta ray
 c. Gamma ray
 d. X-ray

24. 21. A body is projected making angle 60° with vertical. What is the value of KE at the highest point? * 1 point

Mark only one oval.

- a. 0
 b. $E/2$
 c. $E/4$
 d. $3E/4$

25. 22. Quark combination of proton is: * 1 point

Mark only one oval.

- a. uud
 b. udd
 c. uds
 d. usd

26. 23. A car can be stopped over a distance x when its momentum is p . * 1 point
What will be the stopping distance when momentum is

Mark only one oval.

- a. $2x$
- b. $4x$
- c. $6x$
- d. $8x$

27. 24. Which of the following gates can be used in the construction of digital circuit? * 1 point

Mark only one oval.

- a. AND
- b. OR
- c. NAND
- d. NOT

28. 25. n capacitors with capacitance C , each connected in parallel combination across voltage V . Calculate the energy stored in the combination. * 1 point

Mark only one oval.

- a. $(1/2)nCV^2$
- b. $(1/2n)CV^2$
- c. CV^2
- d. CV

29. 26. During gamma emission: * 1 point

Mark only one oval.

- a. Atomic number changes by 2, mass number
- b. Atomic number changes by 1, no change in number
- c. No change in atomic number and mass number
- d. Atomic number and mass number both changed by 2

30. 27. If the length of closed and open organ pipe same, then the ratio of fundamental frequencies is: * 1 point

Mark only one oval.

- a. $1/2$
- b. $2/1$
- c. $3/4$
- d. None

31. 28. Decreasing order of work done during expansion process: * 1 point

Mark only one oval.

- a. $W_{\text{isobaric}} > W_{\text{isothermal}} > W_{\text{adiabatic}} > W_{\text{isochoric}}$
- b. $W_{\text{isochoric}} > W_{\text{adiabatic}} > W_{\text{isothermal}} > W_{\text{isobaric}}$
- c. $W_{\text{isobaric}} > W_{\text{isochoric}} > W_{\text{adiabatic}} > W_{\text{isothermal}}$
- d. $W_{\text{isobaric}} > W_{\text{isochoric}} > W_{\text{isothermal}} > W_{\text{adiabatic}}$

32. 29. Which of the following sets of temperature source and sink has maximum efficiency? * 1 point

Mark only one oval.

- a. 100 K–10 K
- b. 300 K–250 K
- c. 600 K–300 K
- d. 300 K–200 K

33. 30. A car is moving toward a cliff and blown horn of frequency 'f' which is reflected back with frequency '2f'. Then the velocity of car is: * 1 point

Mark only one oval.

- a. v
- b. v/3
- c. v/4
- d. v/6

34. 31. If volume of gas is suddenly reduced when temperature doubles, then ratio of fuel volume to initial volume will be: * 1 point

Mark only one oval.

- a. 1/2
- b. Less than 1/2
- c. More than 1/2
- d. Between 1 and 2

35. 32. The cubical expansivity of the sphere is less than that of liquid. With increase temperature, the apparent weight of sphere will: * 1 point

Mark only one oval.

- a. Increase
- b. Decrease
- c. Remains same
- d. First increase then decrease

36. 33. A glass slab of thickness 8 cm with refractive index of 1.6 consists a layer of liquid of thickness 4.5 cm and refractive index 1.5 above the slab. What is the apparent shift of a black mark at the bottom of the slab seen from above? * 1 point

Mark only one oval.

- a. 8 cm
- b. 3.5 cm
- c. 4.5 cm
- d. 6 cm

37. 34. If the temperature increases by 1 °C, then the change in velocity of sound is (v at NTP = 332 m/s): * 1 point

Mark only one oval.

- a. 0.4
- b. 0.6
- c. 0.2
- d. 0.8

38. 35. Apparent weight of a person is more than real weight when lift goes: * 1 point

Mark only one oval.

- a. Down with acceleration
- b. Down with uniform velocity
- c. Up with acceleration
- d. Up with uniform velocity

39. 36. Choose the incorrect statement. * 1 point

Mark only one oval.

- a. Coherent source is the only required criteria for interference of light
- b. Newtons ring is an example of interference
- c. Diffraction takes place from coherent source from a single wave
- d. Saccharimeter is based on phenomenon of polarization

40. 37. A wire having magnetic moment 'M' & length 'L' is bent in the shape of π with all three parts of same length. The net magnetic moment of the wire becomes: * 1 point

Mark only one oval.

- a. $M/3$
- b. $3M$
- c. M
- d. $M/4$

41. 38. Nuclear reactor is based on: * 1 point

Mark only one oval.

- a. Fission
- b. Fusion
- c. Radioactivity
- d. None

42. 39. When a potential difference 'V' is applied across a conductor at a temperature 'T', the drift velocity of electrons is proportional to: * 1 point

Mark only one oval.

- a. Square root of V
- b. V
- c. Square root of T
- d. T

43. 40. Lyman series lies in: * 1 point

Mark only one oval.

- a. Visible
- b. Infra red
- c. Far IR
- d. Ultraviolet

44. 41. In nuclear reactor, graphite is used: *

1 point

Mark only one oval.

- a. To decrease speed of neutron
- b. As a lubricant
- c. Superconductor
- d. Control rod

45. 42. Which of the following is a vector quantity? *

1 point

Mark only one oval.

- a. Electric field
- b. Electric potential
- c. Electric current
- d. Electric charge

46. 43. Physical quantity responsible for angular acceleration is: *

1 point

Mark only one oval.

- a. Force
- b. Torque
- c. Angular momentum
- d. Moment of inertia

47. 44. The ratio of mean value over one half cycle to the rms of a.c. of complete cycle is: *

1 point

Mark only one oval.

- a. $\sqrt{2} : \pi$
- b. $2\sqrt{2} : \pi$
- c. $\sqrt{2} : 1$
- d. $\pi : \sqrt{2}$

48. 45. The universe is expanding at the rate of 70 km/s/Mpc and a galaxy is receding with velocity 1330km/s. Calculate the distance of galaxy from the Earth. *

1 point

Mark only one oval.

- a. 18 Mpc
- b. 19 Mpc
- c. 93100 Mpc
- d. 1330 Mpc

49. 46. Magnetic field inside the solenoid is: *

1 point

Mark only one oval.

- a. Directly proportional to the length of solenoid
- b. Directly proportional to the current
- c. Inversely proportional to the number of turns on the coil
- d. Directly proportional to the square of the current

50. 47. If two bodies of masses $4M$ & $16M$ move with same kinetic energy, * 1 point
what is the ratio of their momentum?

Mark only one oval.

- a. 2:1
 b. 1:2
 c. 4:1
 d. 1:4

51. 48. Electric potential in an electric dipole is proportional to: * 1 point

Mark only one oval.

- a. $1/r$
 b. $1/r^2$
 c. $1/r^3$
 d. $1/r^4$

52. 49. If N water droplets combine to form a big drop, the potential energy * 1 point
of the big drop is:

Mark only one oval.

- a. $N^{2/3}U$
 b. $N^{1/3}U$
 c. $N^{2/5}U$
 d. N^2U

53. 50. A vessel contains oil (density 0.8 g/cm^3) over mercury (density 13.6 g/cm^3 * 1 point
 g/cm^3). A homogeneous sphere floats with half its volume immersed in mercury and the other half in oil. The density of the material of the sphere in g/cm^3 is:

Mark only one oval.

- a. 3.3
 b. 6.4
 c. 7.2
 d. 12.8

54. 51. Breathalyzer is used to detect alcohol in drivers. The compound * 1 point
used is in it is:

Mark only one oval.

- a. HIO_3
 b. Conc. H_2SO_4
 c. Conc. HNO_3
 d. $\text{K}_2\text{Cr}_2\text{O}_7$

55. 52. IUPAC name of $\text{CH}_3\text{C}(\text{CH}_3)_2\text{CH}_2\text{CH}_3$ * 1 point

Mark only one oval.

- a. 2-Methylpentane
 b. 1,1,1-Trimethylpropane
 c. 3,3-Dimethylbutane
 d. 2,2 Dimethyl butane

56. 53. IUPAC name of glycerol *

1 point

Mark only one oval.

- a. Propan-1,2,3-trialcohol
- b. Propan-1,2,3-triol
- c. Butan-1,2-diol
- d. Propan-1,2-diol

57. 54. Iodoform is used as: *

1 point

Mark only one oval.

- a. Antiseptic
- b. Analgesic
- c. Antipyretic
- d. Anaesthetic

58. 55. Reaction of chloroform and conc. HNO_3 gives: *

1 point

Mark only one oval.

- a. Nitrochloropicrin
- b. Chloretone
- c. Chloropicrin
- d. Carbon tetrachloride

59. 56. Bakelite is formed by the condensation of two compounds. Which among those reacts with FeCl_3 to give positive test? *

1 point

Mark only one oval.

- a. Phenol
- b. Formaldehyde
- c. Benzaldehyde
- d. Benzoic acid

60. 57. Aniline and benzene diazonium chloride reacts to form: *

1 point

Mark only one oval.

- a. p-hydroxy azobenzene
- b. p-amino azobenzene
- c. m-hydroxy azobenzene
- d. o-hydroxy azobenzene

61. 58. Reactivity of halide toward $\text{S}_{\text{N}}1$ reaction follows the order: *

1 point

Mark only one oval.

- a. $3 > 2 > 1$
- b. $1 > 2 > 3$
- c. $1 > 3 > 2$
- d. $3 > 1 > 2$

62. 59. The stereochemistry of product in S_N2 reaction is: * 1 point

Mark only one oval.

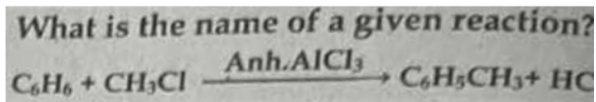
- a. Walden inversion
 b. Racemisation
 c. Net inversion
 d. Partial racemisation

63. 60. Which of the following gives CH_3CHO and CHO_3COCH_3 on ozonolysis? * 1 point

Mark only one oval.

- a. 2-methyl but-2-ene
 b. 1-methyl but-2-ene
 c. 2-methyl but-1-ene
 d. But-2-ene

64. 61. * 1 po



Mark only one oval.

- a. Friedel-Craft's alkylation reaction
 b. Riemer-Tiemann reaction
 c. Wurtz reaction
 d. Fittig reaction

65. 62. In a mixture of n-heptane and iso-heptane, if n-heptane is 20%, then what is the octane number? * 1 point

Mark only one oval.

- a. 80
 b. 100
 c. 20
 d. 120

66. 63. Reaction of carboxylic acid and alcohol gives: * 1 point

Mark only one oval.

- a. Ester
 b. Alcohol
 c. Aldehyde
 d. Amide

67. 64. NO_2 in nitrobenzene is: * 1 point

Mark only one oval.

- a. o & p directing
 b. Meta-directing
 c. Neutral
 d. p-directing

68. 65. Phenol + Bromine gives: *

1 point

Mark only one oval.

- a. p-bromophenol
- b. o-bromophenol
- c. m-bromophenol
- d. Tribromo phenol

69. 66. Isocyanide test is for: *

1 point

Mark only one oval.

- a. Primary amine
- b. Secondary amine
- c. Primary alcohol
- d. Secondary alcohol

70. 67. Forward reaction is favored by increasing pressure in: *

1 point

Mark only one oval.

- a. $\text{H}_2(\text{g}) + \text{I}_2(\text{g}) \leftrightarrow 2\text{HI}(\text{g})$
- b. $\text{PCl}_5(\text{g}) \leftrightarrow \text{PCl}_3(\text{g}) + \text{Cl}_2(\text{g})$
- c. $\text{N}_2(\text{g}) + \text{O}_2(\text{g}) \leftrightarrow 2\text{NO}(\text{g})$
- d. $2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \leftrightarrow 2\text{SO}_3(\text{g})$

71. 68. Turnbull's blue is: *

1 point

Mark only one oval.

- a. Ferriferrocyanide
- b. Ferricyanide
- c. Ferro Ferricyanide
- d. Ferrous ferrocyanide

72. 69. Na is manufactured commercially by electrolysis of its fused chloride, the process is called:

* 1 point

Mark only one oval.

- a. Castner
- b. Kelner
- c. Solvay
- d. Down

73. 70. Brown ring is due to: *

1 point

Mark only one oval.

- a. $\text{FeSO}_4 \cdot \text{NO}_2$
- b. $\text{FeSO}_4 \cdot \text{NO}$
- c. $\text{FeSO}_4 \cdot \text{N}_2\text{O}$
- d. FeSO_4

74. 71. Reagents used in precipitation of group III A metals: * 1 point

Mark only one oval.

- a. $\text{NH}_4\text{Cl} + \text{NH}_4\text{OH}$
- b. $\text{NH}_4\text{Cl} + \text{NH}_4\text{OH} + \text{H}_2\text{S}$
- c. $\text{HCl} + \text{H}_2\text{S}$
- d. None

75. 72. Favourable condition for formation of conc. H_2SO_4 by contact process is: * 1 point

Mark only one oval.

- a. Low temperature, high pressure, high concentration of reactant
- b. High temperature, high pressure, high concentration of reactant
- c. High temperature, low pressure, high concentration of reactant
- d. Low temperature, low pressure, high concentration of reactant

76. 73. Which of the following is a neutral oxide? * 1 point

Mark only one oval.

- a. CO
- b. SnO
- c. Al_2O_3
- d. SiO_2

77. 74. Difference between mass number and atomic number gives: * 1 point

Mark only one oval.

- a. Proton
- b. Nucleus
- c. Neutron
- d. Positron

78. 75. Number of electron donor atoms in EDTA is: * 1 point

Mark only one oval.

- a. 2 N and 4 O
- b. 4 N and 2 O
- c. 2 N and 2 O
- d. 1 N and 1 O

79. 76. Exception to octet rule: * 1 point

Mark only one oval.

- a. CO_2
- b. NO_2
- c. HF
- d. CCl_4

80. 77. Galvanization is the: *

1 point

Mark only one oval.

- a. Deposition of zinc on iron
- b. Deposition of tin on iron
- c. Deposition of copper on iron
- d. Deposition of aluminium on iron

81. 78. Molarity of pure water is: *

1 point

Mark only one oval.

- a. 0
- b. 55.55
- c. 45.55
- d. 1

82. 79. Number of ionic, covalent and co-ordinate bonds present in NH_4Cl : * 1 point*Mark only one oval.*

- a. 1,3,1
- b. 1,3,2
- c. 1,4,0
- d. 1,3,3

83. 80. The rate of diffusion of a gas at constant temperature is: *

1 point

Mark only one oval.

- a. directly proportional to molecular mass
- b. inversely proportional to molecular mass
- c. directly proportional to square root of molecular mass
- d. inversely proportional to square root of molecular mass

84. 81. Unit of rate constant for third order reaction is: *

1 point

Mark only one oval.

- a. sec^{-1}
- b. $\text{L}^2\text{mol}^{-2}\text{sec}^{-1}$
- c. $\text{Mol lit}^{-1} \text{sec}^{-1}$
- d. $\text{Mol}^3\text{lit}^{-1} \text{s}^{-1}$

85. 82. Oxidation number of carbon in CH_3Cl , CH_2Cl_2 , CHCl_3 and CCl_4 : * 1 point*Mark only one oval.*

- a. -2, 0, +2, +4
- b. +4, +2, 0, -2
- c. -2, 2, 0, 4
- d. 0, 2, 4, -2

86. 83. Three unpaired electrons in nitrogen is explained by: * 1 point

Mark only one oval.

- a. Aufbau principle
- b. Hund's rule
- c. Pauli's exclusion principle
- d. Le-Chatelier principle

87. 84. Activation energy is decreased by: * 1 point

Mark only one oval.

- a. increasing concentration of reactants
- b. increasing temperature
- c. use of catalyst
- d. decreasing concentration of reactants

88. 85. 100 mL of 0.2 M H₂SO₄ is treated with 100 mL of 0.2 M NaOH. * 1 point
Calculate the resulting strength of acid in Normality.

Mark only one oval.

- a. 1 N
- b. 0.1 N
- c. 0.4 N
- d. 0.7 N

89. 86. Maximum number of nitrogen atom is present in: * 1 point

Mark only one oval.

- a. 2 moles NO₂
- b. 44.8L of N₂
- c. 17 gm of NH₃
- d. 6.022 x 10²³ molecules of NO₂

90. 87. The graph representation of P and V at constant temperature is: * 1 point

Mark only one oval.

- a. Isobaric
- b. Isochoric
- c. Adiabatic
- d. Isothermal

91. 88. On heating, saturated solution of NaCl becomes: * 1 point

Mark only one oval.

- a. Saturated
- b. Unsaturated
- c. Super-saturated
- d. Remains same

92. 89. H_2S is gas but H_2O is a liquid, due to: *

1 point

Mark only one oval.

- a. Higher molecular weight of H_2O .
- b. H_2O is more acidic
- c. H-bond
- d. Electronegativity

93. 90. Oxidation is: *

1 point

Mark only one oval.

- a. Increase of positive valency
- b. Decrease of positive valency
- c. Gain of electron
- d. Decrease in positive charge

94. 91. Conjugate acid of HCO_3^- is: *

1 point

Mark only one oval.

- a. H_2CO_3
- b. CO_3^{2-}
- c. HCO_2^-
- d. HCO_3

95. 92. Conjugate base of HPO_4^{2-} is: *

1 point

Mark only one oval.

- a. H_2PO_4^-
- b. H_3PO_4
- c. PO_4^{3-}
- d. H_2O^+

96. 93. Lime water on mixing with CO_2 give milky solution while on excess * 1 point
give:

Mark only one oval.

- a. Soluble bicarbonate
- b. Insoluble bicarbonate
- c. Soluble carbonate
- d. Insoluble carbonate

97. 94. Solubility of carbonates decreases down the magnesium family * 1 point
due to decrease in:

Mark only one oval.

- a. Hydration energy of cations
- b. Lattice energy of solids
- c. Interionic attractions
- d. Entropy of solution formation

98. 95. During an adiabatic process, the volume of a gas is found to be inversely proportional to the square of its absolute temperature. The adiabatic ratio for the gas is: * 1 point

Mark only one oval.

- a. 1/2
 b. 3/2
 c. 5/3
 d. 4/2

99. 96. Isotopes of an element differ in: * 1 point

Mark only one oval.

- a. proton
 b. nucleus
 c. neutron
 d. positron

100. 97. Building block of protein: * 1 point

Mark only one oval.

- a. Fatty acid
 b. Amino acid
 c. Lactic acid
 d. Acetic acid

101. 98. In manufacture of iron, limestone is used as: * 1 point

Mark only one oval.

- a. Leaching agent
 b. Oxidizing agent
 c. Reducing agent
 d. Flux

102. 99. At the same temperature and pressure, which of the following gas * 1 point will have highest KE per mole?

Mark only one oval.

- a. Hydrogen
 b. Nitrogen
 c. Helium
 d. Same for all

103. 100. The equivalent conductance of Ba^{2+} and Cl^- respectively 127 and * 1 point $76 \text{ ohm}^{-1}\text{cm}^2\text{eq}^{-1}$ at infinite dilution. What will be the equivalent conductance of BaCl_2 at infinite dilution?

Mark only one oval.

- a. 203
 b. 279
 c. 101.5
 d. 139.5

104. 101. Common in prokaryotes and eukaryotes: *

1 point

Mark only one oval.

- a. Nucleus
- b. Nucleolus
- c. Ribosome
- d. Mitochondria

105. 102. Number of gametes that can be obtained from AaBBCC: *

1 point

Mark only one oval.

- a. 4
- b. 6
- c. 8
- d. 12

106. 103. A man whose father was colour blind and mother is normal marries a woman who had colour blind mother and normal father. What percentage of male children of this couple will be colour blind? * 1 point

Mark only one oval.

- a. 25%
- b. 50%
- c. 75%
- d. 100%

107. 104. Endosperm by fusion of male gamete (AA) and female gamete (aa) in an Angiospermic plant: * 1 point

Mark only one oval.

- a. Aaa
- b. AAa
- c. AAA
- d. aaa

108. 105. Which of the following doesn't cause variation? * 1 point

Mark only one oval.

- a. Mutation
- b. Crossing over
- c. Linkage
- d. Independent assortment

109. 106. Which pigment is dominant in red algae? * 1 point

Mark only one oval.

- a. Chl. a
- b. Chl. b
- c. Phycoerythrin
- d. Fucoxanthin

110. 107. Fern prothallus is: *

1 point

Mark only one oval.

- a. Haploid
- b. Diploid
- c. Haplodiploid
- d. Polyploid

111. 108. Zygospore of spirogyra is: *

1 point

Mark only one oval.

- a. Haploid
- b. Diploid
- c. Haplo-diploid
- d. Diplo-diploid

112. 109. Part of plant used in tissue culture is: *

1 point

Mark only one oval.

- a. In plant
- b. Out plant
- c. Callus
- d. Explant

113. 110. Hormone that cause rooting: *

1 point

Mark only one oval.

- a. Auxin
- b. Cytokinin
- c. Gibberellin
- d. ABA

114. 111. Lichen are pioneer community of: *

1 point

Mark only one oval.

- a. Hydrosere
- b. Lithosere
- c. Psammosere
- d. Xerosere

115. 112. Conjoint bicollateral vascular bundle is present in: *

1 point

Mark only one oval.

- a. Malvaceae
- b. Leguminosae
- c. Compositae
- d. Cucurbitaceae

116. 113. Transpiration is increased due to: *

1 point

Mark only one oval.

- a. Light intensity
- b. Low temperature
- c. High humidity
- d. Decrease in wind velocity

117. 114. pH of acid rain: *

1 point

Mark only one oval.

- a. 5.5 - 7
- b. 3 - 4.5
- c. 7
- d. 8

118. 115. In glycolysis, a glucose molecule produces: *

1 point

Mark only one oval.

- a. 2 pyruvic acid
- b. Acetyl CoA
- c. 4 ATP
- d. CO₂

119. 116. Turpentine oil is obtained from: *

1 point

Mark only one oval.

- a. Cycas
- b. Pinus
- c. Ficus
- d. Fungi

120. 117. All carbohydrates are: *

1 point

Mark only one oval.

- a. Pentose and hexose
- b. Aldose and ketose
- c. Deoxyribose and ribose
- d. Amine and carboxy group

121. 118. Which of the following is false for Solanaceae? *

1 point

Mark only one oval.

- a. Persistent sepal
- b. Epipetalous stamen
- c. Swollen placenta
- d. Unilocular ovary

122. 119. Sporophyte of Marchantia is: *

1 point

Mark only one oval.

- a. Parasitic
- b. Saprophytic
- c. Free living
- d. Autotrophic

123. 120. Process of conversion of atmospheric N_2 to form usable by plants is called:

* 1 point

Mark only one oval.

- a. Ammonification
- b. Nitrification
- c. Denitrification
- d. Nitrogen fixation

124. 121. Transgenic plant developed to prevent Vit. A deficiency is: *

1 point

Mark only one oval.

- a. Corn
- b. Tomato
- c. Potato
- d. Golden rice

125. 122. Histone protein is: *

1 point

Mark only one oval.

- a. Acidic
- b. Basic
- c. Neutral
- d. Amphoteric

126. 123. End product of oxidative phosphorylation: *

1 point

Mark only one oval.

- a. ATP and H_2O
- b. ATP
- c. ATP, $NADH_2$ and H_2O
- d. $NADH_2$

127. 124. Cork, cork cambium and secondary cortex are collectively called * 1 point as:

Mark only one oval.

- a. Phellem
- b. Phellogen
- c. Phelloderm
- d. Periderm

128. 125. Innermost layer of microscope mother cell: *

1 point

Mark only one oval.

- a. Epidermis
- b. Integument
- c. Tapetum
- d. Endothecium

129. 126. Codon for rRNA is CUA. The anti-codon for tRNA is: *

1 point

Mark only one oval.

- a. CUA
- b. AUC
- c. GAU
- d. GAT

130. 127. Invert sugar contains: *

1 point

Mark only one oval.

- a. Glucose and sucrose
- b. Glucose and fructose
- c. Glucose only
- d. Sucrose only

131. 128. Genetic drift: *

1 point

Mark only one oval.

- a. Occurs in small population
- b. Occurs in large population
- c. Occurs in newly formed population
- d. Occurs in old population

132. 129. Herkogamy is: *

1 point

Mark only one oval.

- a. Male and female matures at different time
- b. Male mature before female
- c. Natural barrier developed between anther and stigma to prevent self pollination
- d. Female matures before male

133. 130. If the percentage of A is 30%, what would be the percentage of C? *

1 point

Mark only one oval.

- a. 20%
- b. 70%
- c. 50%
- d. 25%

134. 131. During G1 phase, amount of DNA = 1.28×10^{12} gm then amount * 1 point
of DNA at the end of G2 phase is:

Mark only one oval.

- a. 1.28×10^{12} gm
 b. 0.64×10^{12} gm
 c. 2.56×10^{12} gm
 d. 1.28×10^6 gm

135. 132. Which of the following is wrong? * 1 point

Mark only one oval.

- a. Oxidative decarboxylation = mitochondria
 b. Photosynthesis = chloroplast
 c. Golgi body = protein synthesis
 d. Lysosome = Suicidal bag

136. 133. Number of generation needed to divide mitotically to form 32 * 1 point
cells is:

Mark only one oval.

- a. 3
 b. 4
 c. 5
 d. 6

137. 134. Crossing over takes place in: * 1 point

Mark only one oval.

- a. Sister chromatids of homologous chromosome
 b. Non-sister chromatids of homologous chromosomes
 c. Sister chromatids of non-homologous chromosomes
 d. Non-sister chromatids of non-homologous chromosomes

138. 135. Absence of a chromosome from diploid organism: * 1 point

Mark only one oval.

- a. Monosomy
 b. Disomy
 c. Trisomy
 d. Nullisomy

139. 136. Individual having same alleles for a gene is known as: * 1 point

Mark only one oval.

- a. Homozygous
 b. Heterozygous
 c. Hemizygous
 d. Azygous

140. 137. Glucose units in amylose of starch are joined by: * 1 point

Mark only one oval.

- a. Glycosidic bond
- b. Peptide bond
- c. Ester bond
- d. Phosphodiester bond

141. 138. Area in which a species can live its best life and reproduce is: * 1 point

Mark only one oval.

- a. Niche
- b. Population
- c. Community
- d. Habitat

142. 139. Which term best describes the transfer of energy and nutrients through an ecosystem's interconnected sequences of organisms? * 1 point

Mark only one oval.

- a. Food web
- b. Trophic position
- c. Biotic interaction
- d. Food chain

143. 140. Maximum amount of water moves from tip of plant due to: * 1 point

Mark only one oval.

- a. Transpiration pull
- b. Capillarity
- c. Root pressure
- d. Imbibition

144. 141. In high altitude, erythrocytes: * 1 point

Mark only one oval.

- a. Increase in size
- b. Increase in number
- c. Decrease in size
- d. Decrease in number

145. 142. A zoology professor found an inverted animal which was triploblastic, bilaterally symmetrical and coelomate. What additional feature must be shown by the organism distinguish it as an Arthropod? * 1 point

Mark only one oval.

- a. Presence of wings
- b. Presence of antenna
- c. Presence of shell
- d. Presence of jointed appendages

146. 143. A man used to feel itch in his anal region specially during the night. He might be infected by: * 1 point

Mark only one oval.

- a. Tapeworm
- b. Hookworm
- c. Roundworm
- d. Pinworm

147. 144. Which vitamin helps in maturation erythrocytes? * 1 point

Mark only one oval.

- a. Vit. A
- b. Vit. B₁₂
- c. Vit. C
- d. Vit. D

148. 145. Which of the following is a sexual transmitted disease? * 1 point

Mark only one oval.

- a. Hepatitis A
- b. Hepatitis B
- c. Hepatitis C
- d. Hepatitis D

149. 146. Epithelium forming the inner layer of urinary bladder is: * 1 point

Mark only one oval.

- a. Simple squamous
- b. Simple Columnar
- c. Transitional
- d. Neurosensory

150. 147. Pseudostratified epithelium is present in: * 1 point

Mark only one oval.

- a. Alveoli
- b. Trachea
- c. Urinary bladder
- d. Pharynx

151. 148. In earthworm, setae are absent in: * 1 point

Mark only one oval.

- a. First segment
- b. Last segment
- c. Ciltellum
- d. First segment, last segment and ciltellum

152. 149. Water vascular system is present in: * 1 point

Mark only one oval.

- a. Coelenterates
- b. Porifera
- c. Mollusca
- d. Echinodermata

153. 150. Animals in a higher invertebrate phylum contain a rasping organ * 1 point in their mouth, mainly associated with processing of food. Identify the organ.

Mark only one oval.

- a. Radula
- b. Medulla
- c. Gizzard
- d. Ctenidia

154. 151. First enterocoelomic phylum is: * 1 point

Mark only one oval.

- a. Aschelminthes
- b. Mollusca
- c. Chordata
- d. Echinodermata

155. 152. Which of the following cranial nerves has the highest branching? * 1 point

Mark only one oval.

- a. Facial
- b. Abducens
- c. Vagus
- d. Glossopharyngeal

156. 153. Among the following, which had a major role in human evolution? * 1 point

Mark only one oval.

- a. Agriculture
- b. Proper use of fire
- c. Cave painting
- d. Living in group

157. 154. Major drawback of Darwinism: * 1 point

Mark only one oval.

- a. Survival of fittest
- b. Variation
- c. Struggle for existence
- d. Natural selection

158. 155. Similarity between human and earthworm is, being: * 1 point

Mark only one oval.

- a. Ureotelic
- b. Uricotelic
- c. Ammonotelic
- d. Nephrotelic

159. 156. Vitamin C acts as: * 1 point

Mark only one oval.

- a. Agent for integrity of epithelium
- b. Blood clotting agent
- c. Antioxidant
- d. Enzyme for RBC production

160. 157. Set of viral diseases is: * 1 point

Mark only one oval.

- a. Mumps and Rabies
- b. Typhoid and Tetanus
- c. TB and Cholera
- d. Rabies and Syphilis

161. 158. Response to stimulus of touch is called: * 1 point

Mark only one oval.

- a. Rheotaxis
- b. Thigmotaxis
- c. Thermotaxis
- d. Phototaxis

162. 159. An infant may be feeding entirely on mother's milk which is white * 1 point
in colour but the stool which the infant passes is yellow due to:

Mark only one oval.

- a. Pancreatic juice poured into duodenum
- b. Undigested milk protein
- c. Bile pigment passed through bile juice
- d. Intestinal juice

163. 160. Hemozoin is a toxic substance. It is formed after: * 1 point

Mark only one oval.

- a. Consumption of whole RBCs
- b. Rupture of erythrocytes or destroyed WBCs
- c. Consumption of globulin pigment of RBC
- d. Consumption of colorful pigment of RBC

164. 161. In life cycle of Plasmodium, stage with nucleus toward periphery * 1 point
and vacuole in centre is:

Mark only one oval.

- a. Rosette stage
 b. Trophozoite stage
 c. Cryptozoite
 d. Signet ring

165. 162. One of the functions of progesterone is: * 1 point

Mark only one oval.

- a. Increased action and growth of thyroid
 b. Reabsorption of water from collecting duct
 c. Stimulation of mammary gland secretion
 d. Uterus contraction

166. 163. Basis of classification in protozoa is: * 1 point

Mark only one oval.

- a. Locomotory organelle
 b. Size of body
 c. Shape
 d. Number of nuclei

167. 164. Both B and T lymphocytes are formed in bone marrow but only T * 1 point
lymphocyte travels to:

Mark only one oval.

- a. Spleen
 b. Thymus
 c. Bone marrow
 d. Thyroid

168. 165. Connective tissue in which fat is stored and helps in insulation * 1 point
is:

Mark only one oval.

- a. Bone
 b. Cartilage
 c. Adipose tissue
 d. Blood

169. 166. Which of the following is not a bony fish? * 1 point

Mark only one oval.

- a. Telostomi
 b. Osteichthyes
 c. Elasmobranchi
 d. Lung fish

170. 167. Type of gland in which whole cell is shedded off along with secretory product: * 1 point

Mark only one oval.

- a. Holocrine
- b. Apocrine
- c. Merocrine
- d. Heterocrine

171. 168. Which of the following flows in the blood vessel of earthworm? * 1 point

Mark only one oval.

- a. Blood
- b. Lymph
- c. Hemolymph
- d. Serum

172. 169. Person with sickle cell anaemia is: * 1 point

Mark only one oval.

- a. Prone to malaria
- b. Less prone to malaria
- c. Prone to typhoid
- d. Less prone to typhoid

173. 170. The centrum of 2nd to 7th vertebrae of frog is: * 1 point

Mark only one oval.

- a. Anteriorly concave, posteriorly convex
- b. Anteriorly concave, posteriorly concave
- c. Anteriorly convex, posteriorly concave
- d. Anteriorly convex, posteriorly convex

174. 171. All of the following are characters of chordate except: * 1 point

Mark only one oval.

- a. Pharyngeal gill slits
- b. Nerve cord
- c. Notochord
- d. Vertebral column

175. 172. Which of the following is correctly matched? * 1 point

Mark only one oval.

- a. Amphetamine: stimulant
- b. Heroin: psychotropic
- c. LSD: narcotic
- d. Benzodiazepines: Pain Killer

176. 173. Which of the following affect joints? *

1 point

Mark only one oval.

- a. Diabetes mellitus
- b. Hypertension
- c. Rheumatoid arthritis
- d. Osteoporosis

177. 174. Male genital aperture of earthworm is present in: *

1 point

Mark only one oval.

- a. 16th segment
- b. 17th segment
- c. 18th segment
- d. 19th segment

178. 175. Primary function of smooth muscle is: *

1 point

Mark only one oval.

- a. Voluntary action
- b. Involuntary action in hollow organs
- c. Control the ingestion process
- d. Locomotion and voluntary movement of the body parts

179. 176. A woman shows bilaterally blocked fallopian tubes. Which procedure would you further suggest for her? *

1 point

Mark only one oval.

- a. Amniocentesis
- b. ELISA
- c. Antiviral treatment
- d. IVF

180. 177. Why is a frog's mouth difficult to open? *

1 point

Mark only one oval.

- a. Absence of teeth
- b. Due to presence of Prelingual elevation on lower jaw and fossae on upper jaw
- c. Upper maxillary teeth
- d. Presence of fossa on lower jaw

181. 178. Transport protein is: *

1 point

Mark only one oval.

- a. Albumin
- b. Myosin
- c. Actin
- d. Rich

182. 179. A person experiences numbness and sweeps in his right arm with frequent thiopeesensations in his fingers. He underwent neurosensory examination at the hospital was diagnosed with a disorder in the receptors. Which of the following is correct matched pair? * 1 point

Mark only one oval.

- a. Pachian corpuscle- rapid vibration
- b. Merkel cell-slow vibration
- c. Meissner corpuscles-stretch
- d. Ruffini corpuscles-pain

183. 180. Homo erectus differ from other hominoids discovered by: * 1 point

Mark only one oval.

- a. Language and communication
- b. Use of fire
- c. Culture
- d. Living in group

184. 181. How many such pairs of letters in the word "CLEARING" each of * 1 point which has as many letters between them in the word as in the alphabet?

Mark only one oval.

- a. 0
- b. One
- c. Two
- d. Three

185. 182. Jenish, Abhaya, Nijan, Madhav and Abhishek are sitting in a circle. Jenish is sitting between Abhaya and Nijan. Madhav is sitting on the right of Abhaya. If position of Madhav is fixed and remaining is rotated in clockwise direction, who's on the left of Madhav? * 1 point

Mark only one oval.

- a. Jenish
- b. Abhaya
- c. Nijan
- d. Abhishek

186. 183. Sandeesh takes 8 hours to copy a 50-page manuscript while Bipesh can copy the same manuscript in 6 hours. How many hours would it take to copy a similar 100-page manuscript if they work together? * 1 point

Mark only one oval.

- a. 5 5/7
- b. 6 6/7
- c. 7 7/8
- d. 6

187. 184. 100 cats can kill 100 mice in 100 days. How many days does it * 1 point take for 4 cats to kill 4 mice?

Mark only one oval.

- a. 4
- b. 25
- c. 75
- d. 100

188. 185. *
11 (170) 16
11 (203) 19
17 (?) 18

1 point

Mark only one oval.

- a. 252
 b. 300
 c. 306
 d. 336

189. 186. Before 10 years, Sambida's age was four times the age of her daughter. After 10 years Sambida's age will be double the age of her daughter. What is the present age of her daughter? * 1 point

Mark only one oval.

- a. 20
 b. 22
 c. 24
 d. 26

190. 187. The average age of 10 students of a class is 18 years. If one more student join them, now the average becomes 19 years. What is the age of the new student? * 1 point

Mark only one oval.

- a. 21
 b. 25
 c. 29
 d. 31

191. 188. Two trains having length of 100m and 80m are moving in same direction, with speeds 51m/s and 42 m/s respectively. In what time will they cross each other? * 1 point

Mark only one oval.

- a. 18 seconds
 b. 20 seconds
 c. 25 seconds
 d. 30 seconds

192. 189. When 3 cubes of dimension 5 cm are melted to form a wire of diameter 2 cm, what would be the length of the wire? * 1 point

Mark only one oval.

- a. 59.6 cm
 b. 119.3 cm
 c. 178.8 cm
 d. 238.6 cm

193. 190. In a library, the number of Science, Mathematics and Computer books are in the ratio of 5:6:2. The number of English books is two-third the number of Computer books. If the total number of books is 473, then what is the number of English books in the library? * 1 point

Mark only one oval.

- a. 11
 b. 44
 c. 66
 d. 165

194. 191. Five students Ramesh, Santosh, Sanjeev, Sumit and Naresh are ^{*} 1 point sitting in a line. Ramesh is not adjacent to Naresh or Sanjeev. Ramesh is adjacent to Sumit. Sumit is at the middle and adjacent to Sanjeev in the row. Then, who is between Naresh and Sumit?

Mark only one oval.

- a. Sumit
 b. Ramesh
 c. Sanjeev
 d. Naresh

195. 192. Find the missing value. ^{*} 1 point

Find the missing value.

I	M
2	3
J	R
2	9
T	U
4	?

Mark only one oval.

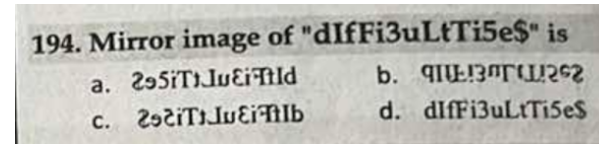
- a. 1
 b. 2
 c. 3
 d. 4

196. 193. LIGHT:L9I6G5H8T0::WHIT:?^{*} 1 point

Mark only one oval.

- a. W7H4I6T2
 b. W3H8I6T0
 c. W5H4I9T6
 d. WIH8I9T4

197. 194. ^{*} 1 po

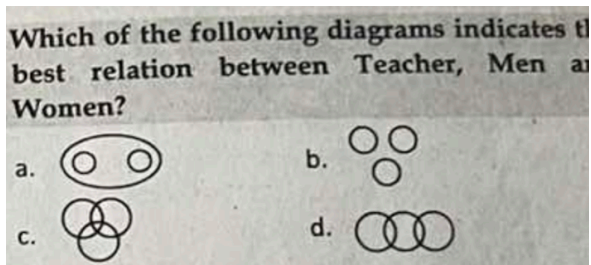


Mark only one oval.

- a.
 b.
 c.
 d.

198. 195. *

1 p

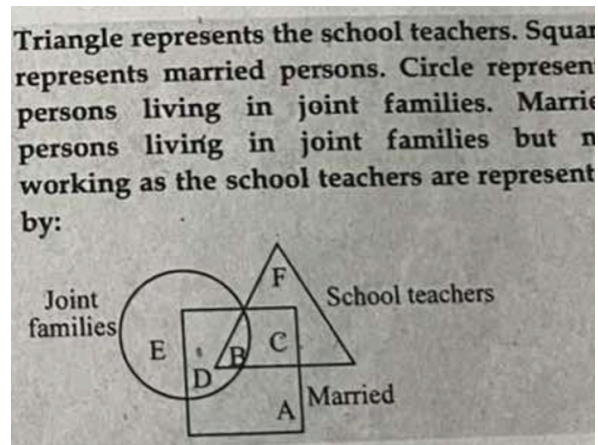


Mark only one oval.

- a.
- b.
- c.
- d.

199. 196. *

1 p

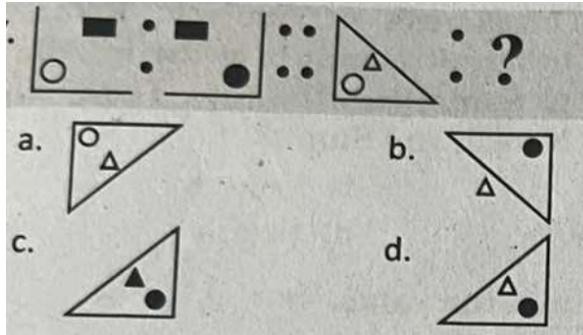


Mark only one oval.

- a. D
- b. F
- c. A
- d. C

200. 197. *

1 poi



Mark only one oval.

- a.
- b.
- c.
- d.

201. 198. 1, 22, 2, 20, 4, 18, 8, 16, 16, 14, ..., ... *

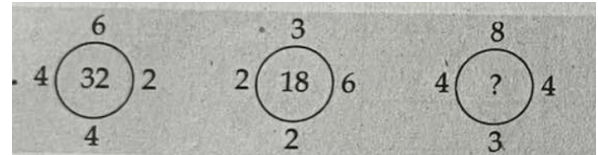
1 point

Mark only one oval.

- a. 32, 12
- b. 32, 10
- c. 24, 8
- d. 16, 10

202. 199. *

1 p

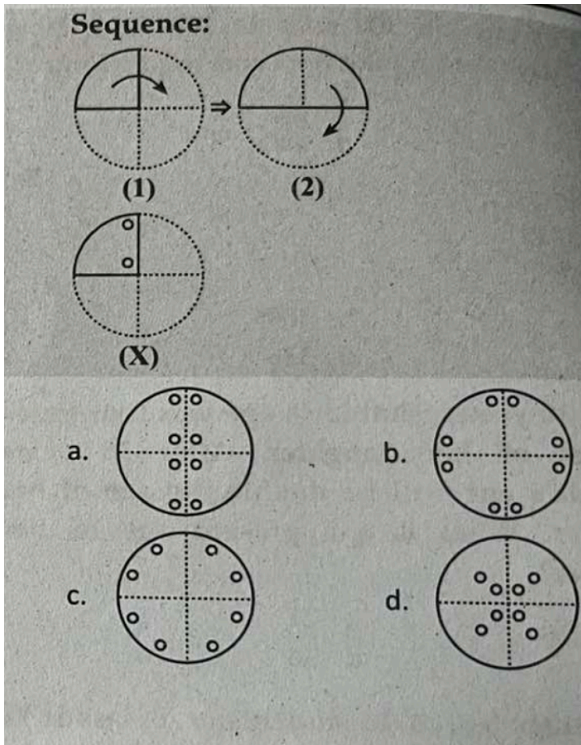


Mark only one oval.

- a. 19
- b. 40
- c. 46
- d. 56

203. 200. Find out how the pattern would appear when the following folded paper 'X' is opened in the given sequence.

d.



Mark only one oval.

- a.
- b.
- c.

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