

Set - 2 Full Length Test - 2025

By CEE Nepal Preparation

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1 - 50 -> Physics
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* Indicates required question

1. Email *

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4. 1. For what minimum height 'h', a body is released on a smooth inclined * 1 point
 plane so that it revolves in vertical circle of radius 'R' after reaching the ground.

Mark only one oval.

- a. $5/2 R$
 b. $5/4 R$
 c. $3/5 R$
 d. $2R$

5. 2. Two bodies are projected at angles 45° and 60° respectively with * 1 point
 horizontal. If both bodies attain same vertical height then ratio of their range will be?

Mark only one oval.

- $\sqrt{3} : 1$
 $\sqrt{3} : 2$
 $3 : 1$
 $1 : 1$

6. 3. Escape velocity for earth is 11 km/s . If satellite is launched at 45° with * 1 point
 horizontal, then escape velocity would be:

Mark only one oval.

- 11 km/s
 $11\sqrt{3} \text{ km/s}$
 $11/\sqrt{2} \text{ km/s}$
 11.2 km.s

7. 4. A body of mass 'm' moving with velocity 'u' collide with another body * 1 point
 of same mass at rest then get embedded in it. The loss of kinetic energy is equal to:

Mark only one oval.

- E
 $E/2$
 $E/3$
 $E/4$

8. 5. A body is moving in circular path with uniform motion then which is * 1 point
 correct?

Mark only one oval.

- a. Path is periodic & SHM
 b. Neither periodic nor SHM
 c. Is SHM but not periodic
 d. Is periodic but not SHM

9. **6.** A train of mass "m" is moving with velocity "v" making an angle " θ " with horizontal straight line then power delivered is? * 1 point

Mark only one oval.

- mgv cos θ
- mgv sin θ
- 2 mg cos θ
- mv cos θ

10. **7.** A body does not wet glass if it makes * 1 point

Mark only one oval.

- a. acute angle
- b. right angle
- c. Greater than 90°
- d. 0°

11. **8.** A boat having length of 4 m and breathing on a lake. The boat sinks * 1 point by 1 when a man gets on it. The mass of the man is 80 kg.

Mark only one oval.

- 80 kg
- 60 kg
- 120 kg
- 100 kg

12. **9.** When a mercury is kept in a glass nucleus is * 1 point

Mark only one oval.

- a. Concave upward
- b. Concave downward
- c. Convex upward
- d. Convex downward

13. **10.** If the change in K.E. is 4%, then momentum changes by: * 1 point

Mark only one oval.

- a. 2%
- b. 8%
- c. 6%
- d. 1%

14. **11.** When refrigerator works between 0 Celsius and room temperature * 1 point of 27 degrees Celsius then coefficient of performance is:

Mark only one oval.

- a. 9
- b. 10
- c. 17
- d. 12

15. 12. If 420 J is lost by 20 g of water. What is change in temperature? * 1 point

Mark only one oval.

- a. 10°C
- b. 5°C
- c. 20°C
- d. 25°C

17. 13. If pressure of closed container is "P" translational kinetic energy per unit volume (KE) is given by: * 1 point

Mark only one oval.

- KE=2/3P
- KE= 3/2 P
- P=2KE
- P=3/2KE

17. 14. At absolute zero temperature, the black body * 1 point

Mark only one oval.

- a. doesn't radiates
- b. maximally radiates
- c. radiation is quadrupled
- d. radiation doubles

18. 15. Equal masses of two liquid having specific heat capacity s_1 at 20.°C and other s_2 at 40.°C are mixed to have resulting solution having temperature 32.°C. Then the ratio of their specific heat capacity $s_1:s_2$ is: * 1 point

Mark only one oval.

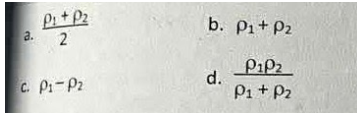
- a. 3:2
- b. 4:1
- c. 3:1
- d. 2:3

19. 16. Which is incorrect? * 1 point

Mark only one oval.

- a. Isothermal = Temperature constant
- b. Adiabatic = Heat and temperature constant
- c. Isochoric = Volume constant
- d. Isobaric = Pressure constant

20. 17. Two wires of same materials having same length and cross section * 1 point
area A are joined in series having resistivity ρ_1 and ρ_2 respectively.
The equivalent resistivity of combination will be:



Mark only one oval.

- Option 1
 Option 2
 Option 3
 Option 4
21. 18. The maximum voltage is obtained when two capacitor having * 1 point
capacitance $3\mu F$ and $8\mu F$ are connected in:

Mark only one oval.

- a. Parallel
 b. Series
 c. Parallel with resistance
 d. Series with resistance

22. 19. Soft iron is used to make the core of the transformer because of its * 1 point

Mark only one oval.

- a. Low coercivity & low retentivity
 b. Low coercivity & high retentivity
 c. High coercivity & low retentivity
 d. High coercivity & high retentivity

23. 20. If wire is stretched to double its length then change in their * 1 point
resistance will be

Mark only one oval.

- a. 2 times
 b. 3 times
 c. 4 times
 d. 16 times

24. 21. If the change in current per second is 1 A/sec then Emf induced in * 1 point
a coil will be equal to:

Mark only one oval.

- a. Magnetic field
 b. Flux
 c. Self inductance
 d. Permittivity

25. **22.** If 10 m long potentiometer wire has resistance 20 ohm. It is connected with 10 ohm external resistance in series & battery of emf 3 volt. The potential gradient across the wire will be * 1 point

Mark only one oval.

- a. 0.02 v/m
- b. 0.2 v/m
- c. 0.10 v/m
- d. 0.5 v/m

26. **23.** Through two parallel wires *A* and *B*, 10 *A* and 2*A* of current are passed respectively in opposite direction. If the wire *A* is infinitely long and the length of the wire *B* is 2 m, then force on the conductor *B* which is situated at 10 cm distance from *A* will be: * 1 point

Mark only one oval.

- 8×10^{-3} N
- $4\pi \times 10^{-3}$ N
- 8×10^{-5} N
- 9×10^{-5} N

27. **24.** The work done in carrying an electrons from points *A* to *B* in an electric field is 1600 J. The potential difference between *A* & *B* will be: * 1 point

Mark only one oval.

- 10^{22} V
- 10^{19} V
- 10^{23} V
- 10^{21} V

28. **25.** A coil of area 0.04 m² having 1000 turns is suspended perpendicularly to a magnetic field of magnitude of 5×10^{-3} Wb/m². If it is rotated through 180° about an axis passing through one of its diameter in 0.1 sec. Calculate average induced Emf in it: * 1 point

Mark only one oval.

- 4×10^{-2} V
- 400 volt
- 20 volt
- 4×10^{-4} V

29. **26.** A person cannot see an object beyond 100 cm. The lens to be used to remove this defect will be the power of: * 1 point

Mark only one oval.

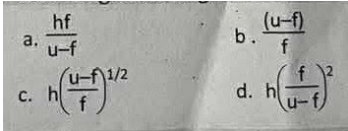
- a. -1 D
- b. 1 D
- c. 2 D
- d. -2 D

30. **27.** Critical angle of diamond is * 1 point

Mark only one oval.

- 41°
- 49°
- 24°
- 39°

31. **28.** If height of object is "h" and object distance is "u" from concave mirror of focal length "f", then height of image will be * 1 point



Mark only one oval.

- Option 1
 Option 2
 Option 3
 Option 4

32. **29.** A old man cannot read newspaper near than 100 cm from his eyes. He is suffering from * 1 point

Mark only one oval.

- a. Hypermetropia, corrected by biconcave lens
 b. Myopia, corrected by biconvex lens
 c. Presbyopia corrected by bifocal lens
 d. Astigmatism corrected by cylindrical lens

33. **30.** A prism of angle A having refractive index 1.5 produces the angle of minimum deviation equal to 5°. Calculate the value of angle of prism is * 1 point

Mark only one oval.

- 10°
 5°
 9°
 8°

34. **31.** When a slab having thickness 4 cm and refractive index 1.5 is placed in path of one interfering light. Then path difference will be: * 1 point

Mark only one oval.

- a. 2 cm
 b. 4 cm
 c. 8 cm
 d. 5 cm

35. **32.** Threshold wavelength of photoelectric emission from a metal surface is 5500 Å. Photoelectrons will be emitted when this surface is illuminated with monochromatic radiation from: * 1 point

Mark only one oval.

- a. 25 W violet light
 b. 50 W infrared light
 c. 50 W red light
 d. 25 W infrared light

36. **33.** Super conductor have: *

1 point

Mark only one oval.

- a. infinite conductance
- b. large conductance
- c. Small conductance
- d. No conductance

37. **34.** Holes are found in *

1 point

Mark only one oval.

- a. Metal
- b. Non-metal
- c. Semiconductor
- d. Superconductor

38. **35.** The ionization energy of the hydrogen atom is 13.6 eV. Following Bohr's theory, the energy corresponding to a transition between second & third orbit is: * 1 point

Mark only one oval.

- a. 1.9 eV
- b. 2.5 eV
- c. 10.2 eV
- d. 0.9 eV

39. **36.** Radioactivity 1 disintegration per second is equivalent to: *

1 point

Mark only one oval.

- 3×10^{20} Curie
- 1 Becquerel
- 10^6 rutherford
- 10^6 Becquerel

40. **37.** In NPN transistor the collector current is 18mA. If 90% of electrons emitted reach the collector, then base current will be: * 1 point

Mark only one oval.

- a. 2mA
- b. 5mA
- c. 8mA
- d. 20mA

41. **38.** If frequency gets doubled then stopping potential will be *

1 point

Mark only one oval.

- a. More than double
- b. Less than double
- c. Half
- d. Same

42. **39.** If radius of 1st Bohr's orbit is 0.53 \AA then radius of second Bohr's orbit is: * 1 point

Mark only one oval.

- $4 \times 0.53 \text{ \AA}$
- $2 \times 0.53 \text{ \AA}$
- $5 \times 0.53 \text{ \AA}$
- $8 \times 0.53 \text{ \AA}$

43. **40.** In NPN transistor electron moves from an end to another. * 1 point

Mark only one oval.

- a. Emitter to collector
- b. Emitter to base
- c. Base to collector
- d. Base to emit

44. **41.** The depletion layer in silicon dioxide is 15 m wide and the knee voltage is 15 m wide. The electric field in depletion layer will be: * 1 point

Mark only one oval.

- a. 750 kV/m
- b. 80 kV/m
- c. 9 kV/m
- d. 100 kV/m

45. **42.** Wilson cloud chamber is used for water mass * 1 point

Mark only one oval.

- a. Detect mass
- b. Detecting charged particles
- c. Detect energy
- d. Detect moisture in the atmosphere

46. **43.** Quark in proton is * 1 point

Mark only one oval.

- a. uud
- b. udd
- c. uu
- d. ud

47. **44.** If neutron have the quark of up and down, then neutrons decomposes to give electromagnetic neutrinos? * 1 point

Mark only one oval.

- a. pion
- b. proton
- c. neutrino
- d. tauri

48. 45. In resonance experiment using tuning laser 1000 Hz. It was observed that the differential length between the fundamental front and first overtone is 0.175 m. Using the information, calculate the velocity of sound: * 1 point

Mark only one oval.

- a. 332 m/s
 b. 330 m/s
 c. 350 m/s
 d. 340 m/s

49. 46. If intensity of sound is increased by 1.5 mm then loudness increases (in decibel) by: * 1 point

Mark only one oval.

- a. 13
 b. 12
 c. 10
 d. 20

50. 47. Sound travels through medium because it is possible to pass on. Energy do not move. Mass do not move * 1 point

Mark only one oval.

- a. Pressure is passed on
 b. Momentum does not move
 c. Mass do not move
 d. Momentum does not move

51. 48. Find the number of photon emitted per second by 600 MW source of monochromatic light. If frequency $1 \times 10^{15} \text{ Hz}$ is greater than 1.5 mm, * 1 point



Mark only one oval.

- Option 1
 Option 2
 Option 3
 Option 4

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

Mark only one oval.

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

53. **50.** A vessel contains oil (density 0.8 g/cm^3) over mercury (density 13.6 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.** Which of the following is used in warfare? * 1 point

Mark only one oval.

- a. CCl_3NO_2
 b. COCl_2
 c. N_2O
 d. CH_2Cl_2

55. **52.** When CH_3Cl is treated with aq. KOH , compound A is formed and when A is treated with Cu at 300°C gives B. Identify B: * 1 point

Mark only one oval.

- a. Methanol
 b. Ether
 c. Methanal
 d. Acetone

56. **53.** Aldol condensation reaction is given by: * 1 point

Mark only one oval.

- a. CH_3CHO
 b. $\text{CH}_3\text{CH}_2\text{OH}$
 c. HCHO
 d. $\text{CH}_3\text{CH}_2\text{OH}$

57. **54.** Which of the following reaction is the characteristic of aldehyde having no α -hydrogen? * 1 point

Mark only one oval.

- a. Cannizaro's reaction
 b. Schmidt reaction
 c. Aldol reaction
 d. Perkin's reaction

58. **55.** Acidic hydrogen is present in: * 1 point

Mark only one oval.

- a. Ethene
 b. Ethyne
 c. Ethane
 d. Propane

59. **56.** HX is treated with unsaturated alkene to form alkyl halide. This is an example of: * 1 point

Mark only one oval.

- a. Electrophilic addition reaction
- b. Nucleophilic addition reaction
- c. Electrophilic substitution reaction
- d. Free radical addition

60. **57.** Boiling point is more in para nitrophenol than ortho nitrophenol due to: * 1 point

Mark only one oval.

- a. Intermolecular H-bond in para nitrophenol and intramolecular H-bond in ortho nitrophenol
- b. Intramolecular H-bond in para nitrophenol & intermolecular H-bond in ortho nitrophenol
- c. More molecular weight
- d. Less molecular weight

61. **58.** 15% pure ethyl alcohol (wash) on fractional distillation gives 85% ethyl alcohol by weight which is known as? * 1 point

Mark only one oval.

- a. Absolute alcohol
- b. Methylated spirit
- c. Rectified spirit
- d. Wash

62. **59.** Benzene diazonium chloride reacts with phenol in alkaline medium to give: * 1 point

Mark only one oval.

- a. P-hydroxyazobenzene
- b. Diphenyl ether
- c. Benzene
- d. Chlorobenzene

63. **60.** Reduction of nitrobenzene by sodium arsenite in alkaline medium gives: * 1 point

Mark only one oval.

- a. Azobenzene
- b. Hydroxyazobenzene
- c. Azoxybenzene
- d. Aniline

64. **61.** IUPAC name of $(\text{CH}_3)_2\text{CH COOH}$ is: * 1 point

Mark only one oval.

- a. 2-methyl propanoic acid
- b. 2-methyl butanoic acid
- c. Propanoic acid
- d. Butanoic acid

65. **62.** Electrolytic reduction of nitrobenzene in conc. H_2SO_4 gives: * 1 point

Mark only one oval.

- a. O-aminophenol
- b. P-aminophenol
- c. Aniline
- d. Azobenzene

66. **63.** Aldehyde and ketone can be distinguished by: * 1 point

Mark only one oval.

- a. Fehling's solution
- b. Sodium thiosulphate
- c. FeCl_3
- d. Sodium bicarbonate

67. **64.** Hybridization of 'C' in C_2H_6 is: * 1 point

Mark only one oval.

- a. sp^2
- b. sp^3
- c. sp
- d. sp^2d

68. **65.** Lipid hydrolysis yields fatty acid and * 1 point

Mark only one oval.

- a. Glycerol
- b. Glycol
- c. Oxalic acid
- d. Formic acid

69. **66.** Marshall's acid is: * 1 point

Mark only one oval.

- a. $\text{H}_2\text{S}_2\text{O}_7$
- b. $\text{H}_2\text{S}_2\text{O}_8$
- c. H_2SO_4
- d. H_2SO_3

70. **67.** Baking powder contains: * 1 point

Mark only one oval.

- a. Citrate
- b. Tartarate
- c. Ostate
- d. Fumarate

71. 68. Which of the following reaction evolves chlorine? *

1 point

Mark only one oval.

- a. $\text{HCl} + \text{Br}_2$
- b. $\text{KCl} + \text{HCl}$
- c. $\text{KClO}_3 + \text{I}_2$
- d. $\text{HOCl} + \text{Br}_2$

72. 69. Neutron was discovered by: *

1 point

Mark only one oval.

- a. Chadwick
- b. Thomson
- c. Rutherford
- d. E. Goldstein

73. 70. Maximum percentage of nitrogen is present in: *

1 point

Mark only one oval.

- a. Urea
- b. Ammonia
- c. CAN
- d. N_2O

74. 71. Hypo and I_2 reacted to give: *

1 point

Mark only one oval.

- a. Tetrathionate
- b. Sulphate
- c. Sulphite
- d. Nitrate

75. 72. Radioactive hydrogen isotope is *

1 point

Mark only one oval.

- a. Proton
- b. Deuterium
- c. Tritium
- d. Cadmium

76. 73. Which of the following is used as purgative, in medicine, treating barium poison and barbiturate poisoning? *

1 point

Mark only one oval.

- a. Epsom salt
- b. Magnesia
- c. Gypsum
- d. Slaked lime

77. 74. Which bivalent metal ion get dissolved in HCl and precipitated in H_2S ? * 1 point

Mark only one oval.

- a. Co^{++}
- b. Mn^{++}
- c. Zn^{++}
- d. Cd^{++}

78. 75. Mg^{++} is isoelectronic with * 1 point

Mark only one oval.

- a. Na^+
- b. Ca^{++}
- c. K^+
- d. F

79. 76. Which is used in advertising tube light? * 1 point

Mark only one oval.

- a. Helium
- b. Neon
- c. Argon
- d. Krypton

80. 77. Froth floatation is based on: * 1 point

Mark only one oval.

- a. Wetting process
- b. Specific gravity
- c. Density
- d. Molecular weight

81. 78. Lunar caustic is * 1 point

Mark only one oval.

- a. $AgNO_3$
- b. $AgCl$
- c. $MgCO_3$
- d. CaH_2

82. 79. What volume of decinormal NaOH is to completely neutralize 10 ml * 1 point of $M/2$ acid?

Mark only one oval.

- a. 200 ml
- b. 100 ml
- c. 50 ml
- d. 400 ml

83. **80.** No. of atoms/molecule in 1 molar known as *

1 point

Mark only one oval.

- a. Avogadro number
- b. Dalton number
- c. Mole
- d. Normality

84. **81.** Which is not used in salt bridge? *

1 point

Mark only one oval.

- a. KCl
- b. NH_4NO_3
- c. KNO_3
- d. Na_2CO_3

85. **82.** Which is used as indicator in CH_3COOH against NaOH ? *

1 point

Mark only one oval.

- a. Phenolphthalein
- b. Methyl orange
- c. Methyl red
- d. Methyl blue

86. **83.** Ratio of rate of diffusion of oxygen hydrogen ion is: *

1 point

Mark only one oval.

- a. 1/4
- b. 8
- c. 2
- d. 16

87. **84.** If molecular mass of gas "A" is 32 times hydrogen gas. Then the ratio of its diffusion is *

1 point

Mark only one oval.

- a. 4
- b. 8
- c. 16
- d. 2

88. **85.** The mole fraction of solute in 25 molal aqueous solution is: *

1 point

Mark only one oval.

- a. 0.043
- b. 4.3
- c. 0.135
- d. 0.231

89. **86.** 22 gm of oxalic acid is present in the 500 ml the solution (1.1 gm/mL) then percentage (w/w) of oxalic acid is * 1 point

Mark only one oval.

- a. 2%
- b. 4%
- c. 6%
- d. 8%

90. **87.** Which is correct about pH scale? * 1 point

Mark only one oval.

- a. Acid may have pH zero
- b. Weak base have pH = 13.5
- c. Acid have pH more than 7
- d. Base have pH 4

91. **88.** Which is used in Galvanization? * 1 point

Mark only one oval.

- a. White vitriol
- b. Green vitriol
- c. Blue vitriol
- d. Calverite

92. **89.** Unit of rate constant of first order reaction is * 1 point

Mark only one oval.

- a. min^{-1}
- b. mol min^{-1}
- c. $\text{mol}^{-1} \text{min}^{-1}$
- d. $\text{mol}^2 \text{min}^{-2}$

93. **90.** In Enargite, Cu is 48.25%, As is 19.68% & S is 21.23%. Then the empirical formula of Enargite is: * 1 point

Mark only one oval.

- a. CuAsS_4
- b. Cu_4AsS_5
- c. CuAsS_2
- d. CuAsS

94. **91.** Setting of plaster of paris involves * 1 point

Mark only one oval.

- a. dehydration
- b. hydration to yield another hydrate
- c. Reduction
- d. Combination

95. **92.** Strongest force is present in *

1 point

Mark only one oval.

- a. atom
- b. nucleus
- c. electron
- d. mass

96. **93.** Which compound is formed by passing excess CO_2 through bleaching powder?

* 1 point

Mark only one oval.

- a. CaCl_2
- b. $\text{Ca}(\text{OCl})_2$
- c. CaOCl_2
- d. Ca

97. **94.** In Rutherford experiment, many alpha particle went un-deflected due to:

* 1 point

Mark only one oval.

- a. Atom contains large empty space
- b. Nucleus centrally located
- c. Repulsion by electron
- d. Repulsion by neutron

98. **95.** CaCO_3 in water is *

1 point

Mark only one oval.

- a. Solution
- b. Colloid
- c. Suspension
- d. Gel

99. **96.** Modern periodic table is based on *

1 point

Mark only one oval.

- a. Atomic weight
- b. Electro negativity
- c. Atomic number
- d. Electron affinity

100. **97.** Self linking property of carbon is called as: *

1 point

Mark only one oval.

- a. Isomerism
- b. Catenation
- c. Cracking
- d. Pyrolysis

101. **98.** The ionization energy of Hydrogen atom is 13.6 eV. Then, ionization energy of He⁺ in first excited state is: * 1 point

Mark only one oval.

- a. 3.4 eV
 b. 54.4 eV
 c. 13.6 eV
 d. 1.5 eV

102. **99.** Direct ancestor of human is: * 1 point

Mark only one oval.

- a. Hominid
 b. Anthropoid
 c. Ape
 d. Monkey

103. **100.** Forest of nephridia is found in: * 1 point

Mark only one oval.

- a. Prostomium
 b. Cingulum
 c. Peristomium
 d. Pharynx

104. **101.** Hodgkin disease is related to: * 1 point

Mark only one oval.

- a. Tuberculosis
 b. Cancer
 c. Typhoid
 d. Diarrhoea

105. **102.** is excretory organs of Platyhelminthes. * 1 point

Mark only one oval.

- a. Nephridia
 b. Kidney
 c. Flame cells
 d. Coxal gland

106. **103.** Classification of Protozoa is on the basis of: * 1 point

Mark only one oval.

- a. Locomotory organs
 b. Feeding habit
 c. Excretory system
 d. Habitat

107. **104.** Classification of Porifera is based on: *

1 point

Mark only one oval.

- a. Water canal system
- b. Spicules
- c. Circulatory system
- d. Cell grade

108. **105.** Organ of Bojanus is related to function. *

1 point

Mark only one oval.

- a. Circulatory
- b. Excretory
- c. Respiratory
- d. Digestive

109. **106.** In stomach, curdling of milk is caused by: *

1 point

Mark only one oval.

- a. Pepsin
- b. Renin
- c. Trypsin
- d. Papain

110. **107.** Largest muscle of Human body is: *

1 point

Mark only one oval.

- a. Gluteus maximus
- b. Gluteus minimus
- c. Masseter
- d. Stapedius

111. **108.** Which is viviparous animal? *

1 point

Mark only one oval.

- a. Platypus
- b. Shark
- c. Bird
- d. Reptiles

112. **109.** Organism tolerate narrow range of salinity is: *

1 point

Mark only one oval.

- a. Stenohaline
- b. Euryhaline
- c. Homeothermic
- d. Poikilothermic

113. **110.** Incomplete digestive system is present in: *

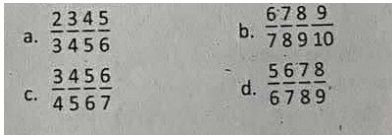
1 point

Mark only one oval.

- a. Whip worm
- b. Tapeworm
- c. Hookworm
- d. Ascaris

114. **111.** Spermatheca pores found in *

1 point

*Mark only one oval.*

- A
- B
- C
- D

115. **112.** In which of the following exflagellation occurs? *

1 point

Mark only one oval.

- a. Microgametocyte
- b. Megagametocyte
- c. Sporozoite
- d. Oocyte

116. **113.** In malaria patient, toxic substance hemozoin is released in: *

1 point

Mark only one oval.

- a. Spleen
- b. Liver
- c. Stomach
- d. Salivary gland

117. **114.** What volume of blood (in litre) reach kidney in 1 minute? *

1 point

Mark only one oval.

- a. 1.2
- b. 0.4
- c. 0.8
- d. 12.5

118. **115.** Which is correct with its category? *

1 point

Mark only one oval.

- a. Stimulant – Amphetamine
- b. Narcotics – LSD
- c. Tranquillizer – Codeine
- d. Sedative – Cocaine

119. 116. Which is incorrect? *

1 point

Mark only one oval.

- a. Myosin – Contractile protein
- b. Myoglobin – Red muscle
- c. Troponin – Fibrous protein
- d. Smooth muscle – Involuntary muscle

120. 117. Sea lily is: *

1 point

Mark only one oval.

- a. Antedon
- b. Holothurian
- c. Asterias
- d. Echinus

121. 118. Which is learned behaviour? *

1 point

Mark only one oval.

- a. Tendon reflex
- b. Salivation
- c. Blinking of eye
- d. Cycling and dancing

122. 119. Which is incorrect? *

1 point

Mark only one oval.

- a. Echinodermata – Water vascular system
- b. Archaeopteryx – Living fossil
- c. Peripatus – Connecting link
- d. Mollusca – Gastropoda

123. 120. The simple organic compound that may have first evolved in the direction of origin of life on earth may have been: * 1 point

Mark only one oval.

- a. Nucleic acid & protein
- b. Ammonia & protein
- c. Urea & nucleic acid
- d. Urea & protein

124. 121. Which was not present in primitive atmosphere? *

1 point

Mark only one oval.

- a. CH₄
- b. NH₃
- c. H₂
- d. O₂

125. **122.** Ameloblast is found in: *

1 point

Mark only one oval.

- a. Pancreas
- b. Liver
- c. Tooth
- d. Small intestine

126. **123.** Infective stage of Plasmodium is: *

1 point

Mark only one oval.

- a. Sporozoite
- b. Trophozoite
- c. Merozoite
- d. Ookinete

127. **124.** If sperm have no acrosome, then *

1 point

Mark only one oval.

- a. it's motility decreases
- b. it cannot get nutrition
- c. it can't penetrate eggs
- d. it will be more active

128. **125.** A newly married women diagnostic carcinoma had hysterectomy. Now she wanted to learn which of the following situation for her? *

1 point

Mark only one oval.

- a. IVF and eggs lend by surrogate mother
- b. IVF and eggs lend by intended mother, sperm & surrogate womb.
- c. IVF and egg transfer in uterus of intended
- d. IVF and eggs lend by surrogate mother and sperm

129. **126.** Symptoms of frequent urination glucose in urine suggest that the * 1 point
suffering from:*Mark only one oval.*

- a. Diabetes mellitus
- b. Diabetes polydips
- c. Diabetes insipidus
- d. Cretinism

130. **127.** During hibernation frog respire by: *

1 point

Mark only one oval.

- a. Cutaneous
- b. Skin & lungs
- c. Buccopharyngeal
- d. Pulmonary

131. **128.** Frog has *

1 point

Mark only one oval.

- a. Ear but no pinna
- b. Mouth with no tooth
- c. Tongue with no lobe
- d. Eye with no lid

132. **129.** Innominate veins of frog is formed by *

1 point

Mark only one oval.

- a. External jugular & carotid
- b. Lingual & mandibular
- c. Internal jugular & subscapular
- d. Subcutaneous and subclavian

133. **130.** Duration of Atrial systole is: *

1 point

Mark only one oval.

- a. 0.3 second
- b. 0.1 second
- c. 0.8 second
- d. 0.5 second

134. **131.** lines the cavity of brain & secretes *

1 point

Mark only one oval.

- a. Astrocytes
- b. Glia cell
- c. Schwann cells
- d. Ependymocytes

135. **132.** Pearl oyster belongs to class *

1 point

Mark only one oval.

- a. Pelecypoda
- b. Gastropoda
- c. Cephalopoda
- d. Aplacophora

136. **133.** Semicircular canal in internal ear helps in: *

1 point

Mark only one oval.

- a. Hearing & balancing
- b. Balancing
- c. Hearing
- d. Decision

137. **134.** Which is not found in penis? *

1 point

Mark only one oval.

- a. Corpus cavernosa
- b. Corpus spongiosum
- c. Corpus callosum
- d. Glans penis

138. **135.** Characteristics feature of mammal is: *

1 point

Mark only one oval.

- a. Ear pinna
- b. Scales on skin
- c. Monocular vision
- d. Cloaca

139. **136.** If blood has more CO₂, then breathing will be: *

1 point

Mark only one oval.

- a. deeper and faster
- b. slower
- c. normal
- d. more pH in blood

140. **137.** Whale, bat and rat belongs to same group. They secrete milk and also have:

* 1 point

Mark only one oval.

- a. Muscular diaphragm
- b. Absent neck
- c. Scales on body
- d. Aquatic

141. **138.** Which is correct? *

1 point

Mark only one oval.

- a. Mollusca – Hemocoelomate
- b. Platyhelminthes – Eucoelomate
- c. Arthropoda – Radial Symmetry
- d. Annelida – Water Canal system

142. **139.** Nucleotide is *

1 point

Mark only one oval.

- a. Purine/Pyrimidine + Sugar + Phosphate
- b. Sugar + phosphate
- c. Purine + Sugar + Phosphate
- d. Pyrimidine + Sugar + Phosphate

143. **140.** Inflorescence of sunflower is *

1 point

Mark only one oval.

- a. Head and capitulum
- b. Cymose
- c. Verticillate
- d. Cyathium

144. **141.** Fruit of Poaceae is *

1 point

Mark only one oval.

- a. Berry
- b. Caryopsis
- c. Follicle
- d. Syconus

145. **142.** Ebr: $\text{R}_3 \text{C}_5 \text{A}_5 \text{G}_2$ represents: *

1 point

Mark only one oval.

- a. Solanaceae
- b. Brassicaceae
- c. Compositae
- d. Poaceae

146. **143.** Double fertilization occurs in *

1 point

Mark only one oval.

- a. Algae
- b. Bryophyte
- c. Angiosperm
- d. Gymnosperm

147. **144.** Most common type of ovule in angiosperm is: *

1 point

Mark only one oval.

- a. Orthotropus
- b. Anatropus
- c. Campylotropus
- d. Amphitropus

148. **145.** In angiosperm, Embryo sac represents: *

1 point

Mark only one oval.

- a. Megasporangium
- b. Microsporangium
- c. Female gametophyte
- d. Male gametophyte

149. **146.** Net ATP in Krebs cycle is *

1 point

Mark only one oval.

- a. 22
- b. 24
- c. 36
- d. 38

150. **147.** Pteridophytes differ from bryophytes in having *

1 point

Mark only one oval.

- a. Archegonia
- b. Ovule
- c. Antheridia
- d. Vascular tissue

151. **148.** In area devastated by forest fire, which grows first? *

1 point

Mark only one oval.

- a. Liverworts
- b. Moss
- c. Fern
- d. Algae

152. **149.** Maximum cellulose is found in: *

1 point

Mark only one oval.

- a. Primary cell wall
- b. Secondary cell wall
- c. Tertiary cell wall
- d. Middle lamella

153. **150.** Conversion of NH_3 to NO_2^- is *

1 point

Mark only one oval.

- a. Nitrogen assimilation
- b. Nitrifying
- c. Denitrification
- d. Nitrogen fixation

154. **151.** Formation of DNA from RNA is called as: *

1 point

Mark only one oval.

- a. Transcription
- b. Transduction
- c. Replication
- d. Reverse transcription

155. **152.** A dwarf pea plant was treated with gibberellic acid, it grow as tall * 1 point
as the homozygous tall pea plant. If this gibberellic acid treated plant is now crossed with a pure tall pea plant then the phenotypic ratio in the next generation is likely to be

Mark only one oval.

- a. 100% dwarf
 b. 100% tall
 c. 75% tall, 25% dwarf
 d. 50% dwarf, 50% tall

156. **153.** Which is incorrect about Marchantia? * 1 point

Mark only one oval.

- a. Leafy gametophyte & erect
 b. Stalked gametophores
 c. Inverted archegonia
 d. Gemma cup

157. **154.** Gymnosperms have naked seed due to absent of: * 1 point

Mark only one oval.

- a. Ovary
 b. Seed coat
 c. Ovule
 d. Embryo sac

158. **155.** Conjoint, collateral and open vascular bundle found in * 1 point

Mark only one oval.

- a. Dicot root
 b. Dicot stem
 c. Monocot root
 d. Monocot stem

159. **156.** Function of Golgi bodies is * 1 point

Mark only one oval.

- a. Carbohydrate metabolism
 b. Protein synthesis
 c. ATP formation
 d. Glycosylation of lipid and protein

160. **157.** Bacteria divide in every minutes, it takes 1 hour to fill a cup then * 1 point
half cup is filled in:

Mark only one oval.

- a. 50 min
 b. 1 hour
 c. 59 min
 d. 30 min

161. **158.** Which is not the contrivances of cross pollination? *

1 point

Mark only one oval.

- a. Self sterility
- b. Female & male flower mature at different time
- c. Female and male flower mature at same time
- d. Dicliny

162. **159.** If haploid chromosome is 20 then monosomy and tetrasomy have

* 1 point

Mark only one oval.

- a. 20, 40
- b. 39, 42
- c. 40, 42
- d. 19, 22

163. **160.** Which organelle eats old organelles? *

1 point

Mark only one oval.

- a. Lysosome
- b. Golgi body
- c. Mitochondria
- d. Chloroplast

164. **161.** If Adenine in DNA is 29%, then cytosine is: *

1 point

Mark only one oval.

- a. 58%
- b. 21%
- c. 42%
- d. 71%

165. **162.** Most abundant protein is: *

1 point

Mark only one oval.

- a. Cellulose
- b. Rubisco
- c. Collagen
- d. Actin

166. **163.** The loss of water in the form of water droplets along with minerals takes place from small pores on the leaf margin, these pores are called:

* 1 point

Mark only one oval.

- a. Hydathodes
- b. Lenticel
- c. Stomata
- d. Article

167. **164.** Pores in the cork cell of stem allows gaseous exchange between atmosphere and internal tissue:

* 1 point

Mark only one oval.

- a. Stomata
- b. Lenticel
- c. Hydathode
- d. Leaf margin

168. **165.** Osmotic pressure is measured by: *

1 point

Mark only one oval.

- a. Potometer
- b. Osmometer
- c. Photometer
- d. Auxometer

169. **166.** Coenocytic hyphae is *

1 point

Mark only one oval.

- a. Uninucleated & septate
- b. Multinucleated & septate
- c. Uninucleated & aseptate
- d. Multinucleated & aseptate

170. **167.** DNA replication occurs in *

1 point

Mark only one oval.

- a. Interphase
- b. Prophase
- c. Anaphase
- d. Metaphase

171. **168.** The inheritance of characters from grandson through daughter is * 1 point called as:

Mark only one oval.

- a. Linkage
- b. Crisscross Inheritance
- c. Mutation
- d. Polygenic Inheritance

172. **169.** If starch converts to organic acid in them stomata *

1 point

Mark only one oval.

- a. Opens
- b. Close
- c. Not affected
- d. Flaccid

173. **170.** In human male linkage group is equal to *

1 point

Mark only one oval.

- a. Haploid chromosome +1
- b. Haploid chromosome
- c. Haploid chromosome -1
- d. Diploid chromosome

174. **171.** In F_2 generation, if both parental characters seen along with intermediate phenotype, it is known as:

* 1 point

Mark only one oval.

- a. Incomplete dominance
- b. Co-dominance
- c. Sex-linked
- d. Linkage

175. **172.** In Kathmandu valley, photochemical sensation due to *

1 point

Mark only one oval.

- a. Ozone + PAN + NO_x
- b. Smoke + SO₂
- c. Ozone + SO₂ + PAN
- d. Smoke + SO₂ + PAN

176. **173.** Force responsible for water transfer from to cell is: *

1 point

Mark only one oval.

- a. DPD
- b. DP
- c. TP
- d. Wall pressure

177. **174.** If decomposer is removed from environment: *

1 point

Mark only one oval.

- a. Minerals do not get recycled
- b. Photosynthesis is affected
- c. Energy will be stopped
- d. Consumers will not get food

178. **175.** A plant cell has potential to develop into a full plant. This is called as

* 1 point

Mark only one oval.

- a. Totipotency
- b. Gene cloning
- c. Tissue culture
- d. Regeneration

179. **176.** Chloroplasts is semi autonomous organelle due to: * 1 point

Mark only one oval.

- a. They contain DNA but lack protein
- b. They contain DNA and have some protein
- c. They originate from Golgi bodies
- d. They don't have genetic materials

180. **177.** Diversification in plant life appeared due to: * 1 point

Mark only one oval.

- a. Long period evolutionary change
- b. Abrupt mutation
- c. Sudden change
- d. By seed dispersal

181. **178.** Plants that grow in salty soil are known as: * 1 point

Mark only one oval.

- a. Oxylophytes
- b. Hydrophytes
- c. Chasmophytes
- d. Halophytes

182. **179.** You have 12 coins and the one is tampered. If weighing balance * 1 point
can measure two coins once then for how many times you are weigh
to find out the weight of tempered

Mark only one oval.

- 6 times
- 9 times
- 3 times
- 5 times

183. **180.** Fill it * 1 point
a a / a / b b _ b / a _ b a a / b b _ b b

Mark only one oval.

- babba
- bbaab
- babaa
- baaab

184. **182.** Light is seen at interval of 13 second. If first light is seen at 1 * 1 point
hour 54 min 50 sec then upto 3 hour, 17 min 49 second, how many
times light is seen?

Mark only one oval.

- a. 384
- b. 576
- c. 724
- d. 872

185. 183. 6 : 13 : 32 : : 130 *

1 point

Mark only one oval.

- a. 69
- b. 74
- c. 76
- d. 65

186. 184. Matrix completion *

1 point

W C A J
T F E H
K I ? L
P G Q D

Mark only one oval.

- a. F
- b. X
- c. D
- d. S

187. 185. Niva, Mina, Sita, Gita, Rita are five friends in circle in clockwise * 1 point

facing at centre, Sita move to Mina and Mina move to Sita and also
Gita move to Rita and Rita move to Gita place then

Mark only one oval.

- a. Mina is right to Sita
- b. Niva is right to Sita
- c. Gita is second to the left of Sita
- d. Rita is right to Niva

188. 186. If Reeta works Geeta works too. If Geeta works Mina not works. * 1 point
If Mina not works Riya not works too then which is correct*Mark only one oval.*

- a. If Geeta works Reeta works too
- b. If Mina works Geeta works too
- c. If Riya not works, Mina works
- d. If Reeta works, Riya works too

189. 187. If Bibek & Shankar play cricket and volleyball, Shankar and * 1 point

Ramesh play cricket and football, Ramesh and Mukesh play football
and Tennis Shankar and Mukesh play Tennis and Volley ball then
who play cricket, volley ball, and Tennis

Mark only one oval.

- a. Bibek
- b. Ramesh
- c. Shankar
- d. Mukesh

190. 188. If a men cycles 36 km/hr, he took complete one round. The ratio * 1 point
of breath is 2:3 then breadth will be*Mark only one oval.*

- a. 720 meter
- b. 360 meter
- c. 800 meter
- d. 900 meter

191. **189.** 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

192. **190.** Arrange in sensible order * 1 point

1. Population 2. Poverty 3. Unemployment 4. Disease 5. Death

Mark only one oval.

- a. 32145
 b. 13245
 c. 45321
 d. 23451

193. **191.** The tank can fill 770 litre of fuel and it has had 200 litre fuel. * 1 point
Find amount of money with the tank at rate of Rs. 4 per 5 litre

Mark only one oval.

- a. Rs. 200
 b. Rs. 456
 c. Rs. 500
 d. Rs. 570

194. **192.** The multiple of two digit number is 18 litre and 27 then the * 1 point
number is reversed while original number?

Mark only one oval.

- a. 36
 b. 63
 c. 27
 d. 72

195. **193.** If COVID-19 is coded as EQXKF-21 then SARS-20 is coded as * 1 point

Mark only one oval.

- VAMT-06
 UCTU-04
 XYAP-05
 XACT-07

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

Mark only one oval.

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

197. **195.** 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

198. **196.** 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

199. **197.** If a man cycles at 36 km/hr, he takes 5 minutes to complete one round. The ratio of length and breadth is 2:3 then breadth will be *

1 point

Mark only one oval.

- a. 720 meter
- b. 360 meter
- c. 800 meter
- d. 900 meter

200. **198.** If Bibek & Shankar play cricket and volleyball, Shankar and Ramesh play cricket and football, Ramesh and Mukesh play football and Tennis, Shankar and Mukesh play Tennis and Volley ball then who plays cricket, volley ball, and Tennis? *

1 point

Mark only one oval.

- a. Bibek
- b. Ramesh
- c. Shankar
- d. Mukesh

201. **199.** The product of the two digits of a two-digit number is 18. When the number is reversed, the new number is 27 more than the original number. The original number is? *

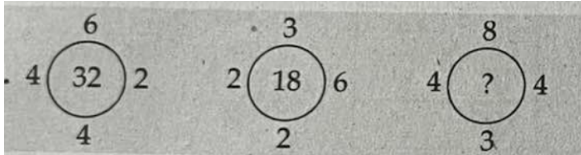
1 point

Mark only one oval.

- a. 36
- b. 63
- c. 27
- d. 72

202. 200. *

1 f



Mark only one oval.

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

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