

Set-4 Complete 200 Weekly Mock Test

By CEE Nepal Preparation

[Click to Join Our Facebook Group](#)

[Click to Join Our Facebook Page](#)

[Visit: krishrauniyar.com](http://krishrauniyar.com) for Chapter-Wise Mcq Test

☎ For any queries, contact us on WhatsApp/Viber: 9829269802

1 - 50 -> Physics

51 - 100 -> Chemistry

101 - 140 -> Botany

141 - 180 -> Zoology

181 - 200 -> MAT

CEE NEPAL PREPARATION



CEE TEST PLATFORM

CEE Online Test

C	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input checked="" type="checkbox"/>
D	<input type="checkbox"/>

-  Chapterwise MCQs Practice
-  Weekly 200 Marks Mock Tests
-  Exam-oriented & structured MCQ system
-  Practice anytime through a dedicated website
-  WhatsApp discussion & technical support

Test • Practice • Test Better • Improve Faster

Visit krishrauniyar.com
9829269802

Prepare, Practice, Succeed!

1. ExtendedForms Id (skip this field)
DO NOT EDIT this field or your score will not recorded.
-

CEE TEST PLATFORM

CEE TEST PLATFORM

CEE Online Test

C	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input checked="" type="checkbox"/>
D	<input type="checkbox"/>

-  Chapterwise MCQs Practice
-  Weekly 200 Marks Mock Tests
-  Exam-oriented & structured MCQ system
-  Practice anytime through a dedicated website
-  WhatsApp discussion & technical support

Test • Practice • Test Better • Improve Faster

Visit krishrauniyar.com
9829269802

Prepare, Practice, Succeed!

2. 1) Which of the following is the set of vector quantity?

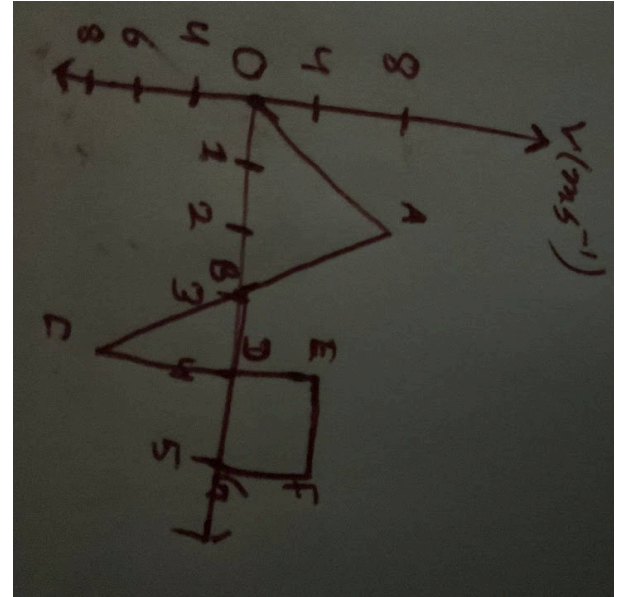
1 point

Mark only one oval.

- Magnetic flux and magnetic field intensity
- Both a and c
- Gravitational field and dipole moment
- Current and resistance

3. 2) The velocity time graph of a body in motion is as shown in the diagram, the displacement covered by a body in 5 sec is:

1 point



Mark only one oval.

- 15m
- 13m
- 10m
- 8m

4. 3) Two projectiles are launched simultaneously from the same point with the same speed u , but at angles A and $90-A$ with the horizontal. Let R_1 and R_2 be their respective maximum ranges, and H_1 and H_2 be their respective maximum height. Which of the following statements is correct? 1 point

Mark only one oval.

- $H_1=H_2$, but $R_1 \neq R_2$
- $H_1 \neq H_2$ but $R_1=R_2$
- $H_1=H_2$ and $R_1=R_2$
- Both $H_1 \neq H_2$ and $R_1 \neq R_2$

5. 4) Which of the following is not the correct expression for force according to Newton's second law of motion? 1 point

Mark only one oval.

A

B

C

None of the above

6. 5) The differential equation of SHM is given $\frac{d^2y}{dt^2} + 100y = 0$. The natural frequency of motion is: 1 point

Mark only one oval.

- $10/\pi$
- $5/\pi$
- $\pi/5$
- π

7. 6) A car is moving with a speed of 30 m/s on a circular path of radius 500m. Its speed is increasing at a rate of 2 m s^{-2} . The acceleration of the car is: 1 point

Mark only one oval.

- 0.2 m s^{-2}
- 2.7 m s^{-2}
- 1.8 m s^{-2}
- 3.8 m s^{-2}

8. 7) The following four wires are made of the same material. Which of these will have the largest extension when the same tension is applied? 1 point

Mark only one oval.

- Length=50cm, diameter=0.5mm
- Length=100cm, diameter=1mm
- Length=200cm, diameter=2mm
- Length=300cm, diameter=3mm

9. 8) Among 1kg steel, 1kg water and 1kg of light packed feathers, hydrogen balloon finds easiest to lift 1 point

Mark only one oval.

- Steel
- Feather
- Water
- All are equal

10. 9) When the temperature of gas and liquid is increased, the viscosity 1 point

Mark only one oval.

- Increases and decreases respectively
- Decreases and increases respectively
- Remains constant
- Both decreases

11. 10) A man of weight 60kg takes a body of mass 15kg at a height of 10m on a building in 3 minutes. The efficiency of the man is: 1 point

Mark only one oval.

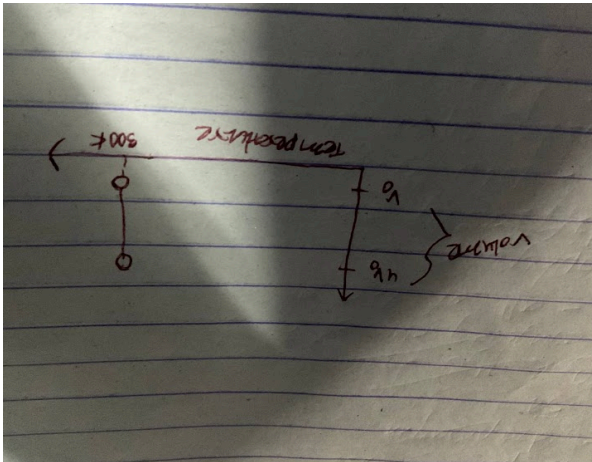
- 10%
- 20%
- 25%
- 40%

12. 11) Two ideal gases A and B are at the same temperature. If the molar mass of gas A is four times that of gas B, What is the ratio of total kinetic energy per unit mass of B to that of A? 1 point

Mark only one oval.

- 1:4
- 1:2
- 2:1
- 4:1

13. 12) The given graph shows a thermodynamic process where 1 mole of an ideal gas expands at 300 K from an initial volume V to a final $4V$; What is the work done by the gas during this process? 1 po



Mark only one oval.

- 300 R ln 4
 300 ln 4
 R ln 4
 R/3 ln 4

14. 13) The freezing point of water decreases under high pressure. Which of the following best explains this behavior? 1 point

Mark only one oval.

- High pressure increase the kinetic energy of Water molecules
 Ice has a lower density than liquid Water, so pressure favors the denser phase
 High pressure decreases the heat capacity of water
 The latent heat of fusion increases under pressure

15. 14) A steel railway track of length 15m is laid at a temperature of 20°C . If the maximum temperature in summer can reach 60°C , how much gap (in mm) should be left between two rails to prevent buckling? (Take coefficient of linear expansion of steel $\alpha = 1.2 \times 10^{-5} \text{ }^{\circ}\text{C}^{-1}$) 1 point

Mark only one oval.

- 2.4mm
 7.2mm
 6.0mm
 4.8mm

16. 15) One end of a copper rod of length, $L=0.5\text{m}$ and cross-sectional area, $A=1 \times 10^{-4} \text{ m}^2$ is kept in steam at 100°C , and the other end is in contact with ice at 0°C . Assuming steady-state conduction, how much ice (in grams) melts in 100 minutes? (Thermal conductivity of copper $K=400 \text{ W/m K}$, Latent heat of fusion of ice $L=3.36 \times 10^5 \text{ J/Kg}$) 1 point

Mark only one oval.

- 89.3 g
- 119.0 g
- 142.9 g
- 198.5 g

17. 16) Commonly used mercury thermometer has range of: 1 point

Mark only one oval.

- 20 to 100°C
- 0 to 100°C
- 20 to 200°C
- 30 to 357°C

18. 17) When light passes from glass to air, Which of the following changes? 1 point

Mark only one oval.

- Wavelength and Velocity only
- Frequency and Velocity only
- Wavelength and frequency only
- Wavelength, frequency and velocity

19. 18) An equiconvex lens has a power of 2 Dioptre. What will be the radius of curvature of each surface if the lens is made of glass of refractive index = 1.5? 1 point

Mark only one oval.

- 0.25m
- 0.5m
- 1m
- 2m

20. 19) What is the time taken by a ray of light to emerge from a glass slab of thickness $t=2\text{cm}$ and refractive index = 1.5? 1 point

Mark only one oval.

- 10^{-8} s
- 10^{-9} s
- 10^{-10} s
- 10^{-12} s

21. 20) Polariser is a device used to convert the incident unpolarized light into a plane polarized one. For a polarizer to be an ideal polariser, What percentage of the incident unpolarised light does it need to transmit as plane polarised one? 1 point

Mark only one oval.

- 100%
- 75%
- 50%
- 87%

22. 21) In Fraunhofer diffraction experiment of single slit using light of wavelength 400nm, the first minimum is formed at an angle of 30° . Then the direction A of first secondary maximum is given by: 1 point

Mark only one oval.

- $\sin^{-1}(3/4)$
- $\tan^{-1}(4/3)$
- $\tan^{-1}(3/4)$
- $\sin^{-1}(4/3)$

23. 22) A convex lens suffers from spherical aberration. What modification can reduce this aberration effectively? 1 point

Mark only one oval.

- Increase lens diameter
- use lens with uniform curvature on both surfaces
- Use aperture to block marginal rays
- Place lens closer to object

24. 23) Three resistors of values R_1, R_2 and R_3 ohms are connected in parallel, $R_1 < R_2 < R_3$. What can you say about the equivalent resistance of the combination? 1 point

Mark only one oval.

- It is less than R_1
- It is equal to R_1
- It is greater than R_1
- It lies between R_1 and R_2

25. 24) When a current I flows through a conductor, the drift velocity of electrons is V . If the current is doubled and the cross-sectional area of the conductor is also doubled, what will be the new drift velocity? 1 point

Mark only one oval.

- $4V$
- $V/4$
- $V/2$
- V

26. 25) Two resistors, R and $2R$, are connected in series in an electric circuit. What is the ratio of heat produced in the resistor $2R$ to heat produced in resistor R ? 1 point

Mark only one oval.

- 2:1
- 1:2
- 4:1
- 1:4

27. 26) Which of the following devices works on the principle of the Peltier effect? 1 point

Mark only one oval.

- Thermocouple thermometer
- Electric Fan
- Thermoelectric cooler (TEC)
- Mercury thermometer

28. 27) A stationary electric charge produces 1 point

Mark only one oval.

- Magnetic Field only
- Electric field only
- Both electric field and magnetic field
- Neither electric field and magnetic field

29. 28) The magnetic susceptibility for diamagnetic substance is 1 point

Mark only one oval.

- Positive and small
- Negative
- Zero
- Positive and large

30. 29) A transformer's Primary winding has 500 turns and its secondary winding has 5000 turns. If the primary is fed with 20 V at 50 Hz, What will be the secondary's Voltage and frequency? 1 point

Mark only one oval.

- 200V, 50Hz
- 2V, 5 Hz
- 2v, 50Hz
- 200V, 500Hz

31. 30) What is the ratio of the mean value (average value over a half cycle) to the RMS value of an alternating current (AC) waveform? 1 point

Mark only one oval.

- 2π
- $2\sqrt{2}\pi$
- $\sqrt{2}\pi$
- $\sqrt{2}:1$

32. 31) According to the right-hand thumb rule, the direction of magnetic field around a current carrying wire is: 1 point

Mark only one oval.

- Along the direction of current
- Opposite to current direction
- Perpendicular to current, in circular loops
- Radially outward from the wire

33. 32) Both the strings, shown in the figure are made of the same material and have the same cross-section. The pulleys are light. The Wave speed of a transverse wave in the string AB is V_1 and CD it is V_2 . Then V_1/V_2 is 1 point

Mark only one oval.

- 1
- 2
- $\sqrt{2}$
- $1/\sqrt{2}$

34. 33)The loudness of sound is 40dB.What is the intensity level of sound? 1 point

Mark only one oval.

- 10^{-7} W/m^2
- 10^{-6} W/m^2
- 10^{-8} W/m^2
- None

35. 34)A person driving a car with velocity 30m/s towards the rock horned the car with frequency 600Hz and the sound is reflected from rock.The apparent frequency heard heard by the person is(Velocity of sound 330m/s)? 1 point

Mark only one oval.

- 555.5Hz
- 550 Hz
- 610Hz
- 720Hz

36. 35)Four plates of equal area A are separated by equal distance d and are arranged as shown in the figure. The equivalent capacity is 1 point

Mark only one oval.

- EoA/d
- $2EoA/d$
- $3EoA/d$
- $4EoA/d$

37. 36)Equation of progressive wave is given by $y=4\sin[\pi(t/5 -x/9)+\pi/6]$ where y is in micron,x is in m,t is in second then which of the following is correct? 1 point

Mark only one oval.

- $V=5\text{m/s}$
- wavelength=18m
- $a=0.04 \text{ cm}$
- $f=50\text{Hz}$

38. 37)Nucleon is 1 point

Mark only one oval.

- Electron and proton
- Proton and nucleus
- Proton and neutron
- None

39. 38)Maximum ionization is exhibited by which rays 1 point

Mark only one oval.

- X-rays
- α -rays
- β -rays
- none

40. 39) In obtained an x-ray photograph of hand; we use principle of 1 point

Mark only one oval.

- Shadow photography
- Image formation by an optical system
- Photoelectric effect
- Ionisation

41. 40) Calculate the no. of photons emitted per sec from a bulb of power 60 W. (wavelength=6000 armstrong) 1 point

Mark only one oval.

- 6×10^{20}
- 5×10^{20}
- 2×10^{20}
- 3×10^{20}

42. 41) If a source of 60W is applied on a surface and 40% photons are absorbed, find force applied on surface 1 point

Mark only one oval.

- $1.6 \times 10^{-7} \text{ N}$
- $3.2 \times 10^{-7} \text{ N}$
- $4.8 \times 10^{-7} \text{ N}$
- $0.8 \times 10^{-7} \text{ N}$

43. 42) The energy of photon in eV whose wavelength is 6600 Armstrong is 1 point

Mark only one oval.

- 0.1875 eV
- 1.875 eV
- 18.75 eV
- 198 eV

44. 43) Calculate the no. of photons emitted per sec from a bulb of power 60 W. (wavelength=6000 armstrong) 1 point

Mark only one oval.

- 6×10^{20}
- 5×10^{20}
- 2×10^{20}
- 3×10^{20}

45. 44) If a source of 60W is applied on a surface and 40% photons are absorbed, find force applied on surface 1 point

Mark only one oval.

- $1.6 \times 10^{-7} \text{ N}$
- $3.2 \times 10^{-7} \text{ N}$
- $4.8 \times 10^{-7} \text{ N}$
- $0.8 \times 10^{-7} \text{ N}$

46. 45)Initial mass of a radioactive sample of half-life 6 hours is 0.8kg. The amount of sample left after 1 day(24 hours) is 1 point

Mark only one oval.

- 0
- 100 gm
- 200 gm
- 50 gm

47. 46)If the half life of a radioactive radium is 1600yrs. Then find, the radium left after 4800 yrs 1 point

Mark only one oval.

- 1/8
- 1/2
- 1/16
- 1/4

48. 47)If a galaxy is moving away from earth, then the shift in lines is towards: 1 point

Mark only one oval.

- Blue
- Red
- Infrared
- Green

49. 48)The output is low when either of input is high,then this represents which of following gate? 1 point

Mark only one oval.

- OR
- NOR
- XOR
- NAND

50. 49)In p-type extrinsic semi-conductor: 1 point

Mark only one oval.

- Fermi Energy level shifts toward valence band
- Fermi Energy level shift toward conduction band
- Similar to N-type
- Fermi energy level not affected

51. 50)During annihilation of an electron-positron pair,how many photons do you expect to release? 1 point

Mark only one oval.

- 1
- 2
- 3
- no photons are released

52. 51) In chromium atom, in ground state, the number of occupied orbitals is 1 point

is

Mark only one oval.

- 14
- 15
- 7
- 12

53. 52) Rutherford's experiment of alpha-particles showed for the first time that atom has 1 point

Mark only one oval.

- Protons
- Neutrons
- Nucleus
- Electrons

54. 53) The geometry of IF_7 is 1 point

Mark only one oval.

- Heptagonal
- Icosahedra
- Trigonal bipyramidal
- Pentagonal bipyramidal

55. 54) Most favourable conditions for the formation of ionic bond are: 1 point

Mark only one oval.

- Small cation, large anion
- large cation, small anion
- Large cation, large anion
- Small cation, small anion

56. 55) In which of the compound, iron has lowest oxidation state 1 point

Mark only one oval.

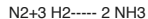
- $\text{Fe}(\text{CO})_5$
- $\text{K}_4[\text{Fe}(\text{CN})_6]$
- FeCl_3
- FeCl_2

57. 56) How much copper can be deposited by 2.5 Faraday of electricity? 1 point

Mark only one oval.

- 2 moles
- 2.5 moles
- 1.25 moles
- 0.125 moles

58. 57) Which of the following is true for the reaction 1 point



Mark only one oval.

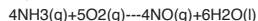
- $d[\text{N}_2]/dt = 3d[\text{H}_2]/dt$
- $-d[\text{N}_2]/dt = +1/3 d[\text{H}_2]/dt$
- $-2/3 d[\text{H}_2]/dt = +d[\text{NH}_3]/dt$
- $-3 d[\text{H}_2]/dt = 2 d[\text{NH}_3]/dt$

59. 58) A catalyst increases the rate of reaction by: 1 point

Mark only one oval.

- Decreasing enthalpy
- Decreasing internal energy
- Decreasing activation energy
- increasing activation energy

60. 59) In the reaction, 1 point



When 1 mole of ammonia and 1 mole of O₂ are made to react to completion:

Mark only one oval.

- All the oxygen will be consumed.
- 1.0 mole of NO will be produced
- 1.0 mole of H₂O is produced
- All the ammonia will be consumed

61. 60) In hydrogen spectrum which of the following lies in the wavelength range 350-700 nm? 1 point

Mark only one oval.

- Balmer series
- Lyman series
- Brackett series
- Paschen series

62. 61) Gradual addition of electronic shells in the noble gases causes a decrease in their 1 point

Mark only one oval.

- ionization energy
- atomic radius
- Boiling point
- Density

63. 62) Which of the following has least polarity in bond? 1 point

Mark only one oval.

- H-F
- H-Cl
- H-O
- H-S

64. 63) The rate of diffusion of methane at a given temperature is twice that of X. The molecular weight of X is: 1 point

Mark only one oval.

- 64.0
- 32.0
- 40.0
- 80.0

65. 64) The relationship between enthalpy change and internal energy change is 1 point

Mark only one oval.

- $\Delta H = \Delta E + P\Delta V$
- $\Delta H = (\Delta E + V\Delta P)$
- $\Delta H = \Delta E - P\Delta V$
- $\Delta H = P\Delta V - \Delta E$

66. 65) For reaction $\text{PCl}_3(\text{g}) + \text{Cl}_2(\text{g}) \rightleftharpoons \text{PCl}_5(\text{g})$, the value of K_c at 250°C is 26 /mol litre. The value of K_p at this temperature will be 1 point

Mark only one oval.

- 0.61/atm
- 0.57/atm
- 0.83/atm
- 0.46/atm

67. 66) Which of the following can act as both Bronsted acid and Bronsted base? 1 point

Mark only one oval.

- Na_2CO_3
- HCOO^-
- HCO_3^-
- H_2PO_4^-

68. 67) An example of a salt that will not hydrolyse is 1 point

Mark only one oval.

- NH_4Cl
- KCl
- $\text{CH}_3\text{COONH}_4$
- CH_3COOK

69. 68) The oxidation number of cobalt in $\text{K}_3[\text{Co}(\text{NO}_2)_6]$ is 1 point

Mark only one oval.

- 0
- +4
- +3
- +6

70. 69) If salt bridge is removed from two half-cells the voltage 1 point

Mark only one oval.

- drops to Zero
- Does not change
- Increase gradually
- Increase rapidly

71. 70) A substance initial concentration(a) reacts according to Zero order kinetics. What will be the time for the reaction to go to completion 1 point

Mark only one oval.

- a/k
- k/a
- a/2k
- 2k/a

72. 71) Random motion of colloidal particles is known as 1 point

Mark only one oval.

- Dialysis
- Brownian movement
- Electro-osmosis
- Tyndall effect

73. 72) The amount of Zinc required to produce 224 mL of H₂ at STP on treatment with dilute H₂SO₄ will be: 1 point

Mark only one oval.

- 6.5g
- 0.65g
- 0.065g
- 65g

74. 73) Which of the following has the highest melting point? 1 point

Mark only one oval.

- NaCl
- NaF
- NaBr
- NaI

75. 74) Which of the following sulphates has highest solubility in water? 1 point

Mark only one oval.

- NaSO₄
- BeSO₄
- BaSO₄
- MgSO₄

76. 75) Extraction of Ag from commercial lead is possible by 1 point

Mark only one oval.

- the Parkes process
- Clarke's process
- Pattinson's process
- Electrolytic Process

77. 76) The electrolytic reduction technique is used in the extraction of 1 point

Mark only one oval.

- highly electronegative elements
- High electropositive elements
- Metalloids
- Transition metals

78. 77) Which of the following hydrides has the lower boiling point? 1 point

Mark only one oval.

- H₂O
- H₂S
- H₂Se
- H₂Te

79. 78) H₂SO₄ and H₂SO₃ can be distinguished by the addition of: 1 point

Mark only one oval.

- Magnesium powder
- NaHSO₄ solution
- FeCl₃ solution
- Litmus solution

80. 79) The bond energies of F₂, Cl₂, Br₂ and I₂ are 37, 58, 46 and 36 kcal/mol respectively. The strongest bond is present in 1 point

Mark only one oval.

- Br₂
- I₂
- Cl₂
- F₂

81. 80) Which one of the following ionic species will impart colour to an aqueous solution? 1 point

Mark only one oval.

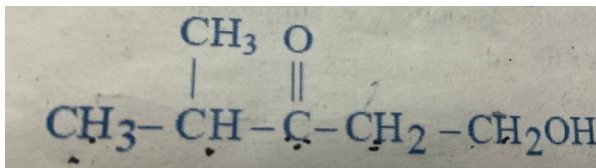
- Cr³⁺
- Cu⁺
- Zn²⁺
- Ti⁴⁺

82. 81) Superconductors are derived from compounds of 1 point

Mark only one oval.

- P-Block elements
- Lanthanides
- Actinides
- Transition elements

83. 82) The IUPAC name of the given compound is 1 po



Mark only one oval.

- 1-hydroxy-4-methyl-3-pentanone
- 2-methyl-5-hydroxy-3-pentanone
- 4-methyl-3-oxo-1-pentanol
- Hexanol-1-one-3

84. 83) In compound $\text{CH}_2=\text{CH}-\text{CH}_2-\text{CH}_2-\text{C}\equiv\text{CH}$, the C2-C3 bond is of the type 1 point

Mark only one oval.

- Sp-Sp²
- Sp³-Sp³
- Sp-Sp³
- Sp²-Sp³

85. 84) The number of possible acyclic structural isomers of C₄H₁₀O is 1 point

Mark only one oval.

- 5
- 6
- 7
- 8

86. 85) Which of the following has the highest octane number? 1 point

Mark only one oval.

- n-Hexane
- n-Heptane
- n-Pentane
- 2,2,4-Trimethyl pentane

87. 86) Which of the following does not give a white precipitate with AgNO_3 solution? 1 point

Mark only one oval.

- Propyne
- 1-Butyne
- 2-Butyne
- 1-Pentyne

88. 87) The most reactive among the following towards sulphonation is 1 point

Mark only one oval.

- toluene
- Chlorobenzene
- Nitrobenzene
- m-Xylene

89. 88) Toluene on reaction with N-bromosuccinimide gives 1 point

Mark only one oval.

- P-Bromomethylbenzene
- O-Bromomethylbenzene
- Phenyl bromomethane
- m-Bromomethylbenzene

90. 89) Iodoform on heating with KOH gives 1 point

Mark only one oval.

- CH_3CHO
- CH_3COOK
- HCOOK
- HCHO

91. 90) Which of the following is not true in case of reaction with heated copper at 300°C ? 1 point

Mark only one oval.

- Phenol—Benzyl alcohol
- Primary alcohol—Aldehyde
- Secondary alcohol—Ketone
- Tertiary alcohol—Olefin

92. 91) Which of the following is most acidic? 1 point

Mark only one oval.

- Phenol
- Benzyl alcohol
- m-Chlorophenol
- Cyclohexanol

93. 92) Formaldehyde reacts with ammonia to give 1 point

Mark only one oval.

- Hexamethylene tetramine
- Formaldehyde-ammonia
- Formalin
- Hydrobenzamide

94. 93) Methyl Ketones are usually characterized through 1 point

Mark only one oval.

- the Tollen's reagent
- the iodoform test
- The schiff's test
- The Benedict's reagent

95. 94) Nitrobenzene on electrolytic reduction in strongly acidic medium gives 1 point

Mark only one oval.

- aniline
- m-nitroaniline
- p-aminophenol
- nitrosobenzene

96. 95) The process involving heating of rubber with sulphur is called 1 point

Mark only one oval.

- Galvanisation
- Vulcanization
- Bessemerisation
- Sulphonation

97. 96) Which of the following molecules does not act as a ligand? 1 point

Mark only one oval.

- CO₂
- NH₃
- H₂O
- CO

98. 97) Which of the following is used to convert >C=O group to -CH₂-? 1 point

Mark only one oval.

- Ni/H₂/Δ
- LiAlH₄/Δ
- Zn-Hg/HCl/Δ
- Pd/H₂/Δ

99. 98) In a solution of $\text{PH}=0$, 100 ml of pure water is added, then the mixture will be: 1 point

Mark only one oval.

- Acidic
- Alkaline
- Amphoteric
- Neutral

100. 99) Flame colour of sodium is: 1 point

Mark only one oval.

- Crimson red
- Violet
- Golden yellow
- Blue

101. 100) Roasting is used for the ores of 1 point

Mark only one oval.

- Sulphides
- Oxides
- Carbonates
- Silicates

102. 101) Cystic fibrosis is: 1 point

Mark only one oval.

- Auto immune disease
- genetic disorder
- Communicable disease
- non-communicable disease

103. 102) Person suffering from sickle cell anemia is 1 point

Mark only one oval.

- more prone to typhoid
- more prone to malaria
- less prone to typhoid
- less prone to malaria

104. 103) All are true for cruciferae except: 1 point

Mark only one oval.

- Didynamous
- False septum
- six stamens
- Tetradyamous

BOTANY

105. 104) All of the following are aneuploidy except 1 point

Mark only one oval.

- Turners syndrome
 Down syndrome
 Phenylketonuria
 Klinefelters syndrome

106. 105) At meiosis, centromere separation occurs at: 1 point

Mark only one oval.

- prophase II
 Anaphase II
 Metaphase II
 Telophase II

107. 106) Which of the following is diploid spore? 1 point

Mark only one oval.

- Zygosporium
 zoospore
 Ascospore
 Basidiospore

108. 107) The possible blood group of offspring if father has blood group A and mother has blood group B: 1 point

Mark only one oval.

- A, AB
 B, AB
 A, B, O
 A, B, AB, O

109. 108) Which of the following is produced during photophosphorylation? 1 point

Mark only one oval.

- ATP
 ATP and NADPH₂
 ATPH₂O
 H₂O AND O₂

110. 109) DNA is made up of: 1 point

Mark only one oval.

- pentose sugar+Nitrogen base
 Nucleoside
 Nucleoside+sugar
 nucleoside+phosphate

111. 110) Cucurbits have:

1 point

Mark only one oval.

- Collateral vascular bundle
- Bicollateral Vascular bundle
- Radial vascular bundle
- Concentric vascular bundle

112. 111) Both are benefitted by each other and cannot live without one:

1 point

Mark only one oval.

- proto-cooperation
- Mutualism
- Commensalism
- Antibiosis

113. 112) In DNA if cytosine is 10%, amount of thymine is:

1 point

Mark only one oval.

- 10%
- 20%
- 40%
- 50%

114. 113) velamen tissue are found in:

1 point

Mark only one oval.

- Xerophyte
- Epiphyte
- Hydrophyte
- Mesophyte

115. 114) pyramid of energy is:

1 point

Mark only one oval.

- spindle shape
- always erect
- inverted
- sometimes erect

116. 115) Enzyme that cuts DNA at specific site is:

1 point

Mark only one oval.

- Topoisomerase
- Helicase
- Unwindase
- Restriction endonuclease

117. 116) Grafting is not possible in monocot due to: 1 point

Mark only one oval.

- Absence of cambium
- Scattered vascular bundle
- Having smaller stem
- Lack of vascular tissue

118. 117) Which one is used in culture medium? 1 point

Mark only one oval.

- Laminaria
- Gelidium
- Alginic acid
- Spirulina

119. 118) Which of the following is disaccharide? 1 point

Mark only one oval.

- Maltose
- glucose
- cellulose
- Starch

120. 119) In maize male anther matures faster than female stigma, maize is 1 point

Mark only one oval.

- Heterostyly
- Herkogamy
- protandry
- protogyny

121. 120) Gemma cup found in 1 point

Mark only one oval.

- cycas
- funaria
- mosses
- marchantia

122. 121) A colorblind man marries a normal woman whose father was colorblind, then the probability of son to be colorblind is 1 point

Mark only one oval.

- 25%
- 50%
- 75%
- 100%

123. 122) In photosynthesis, O₂ is evolved from water during: 1 point

Mark only one oval.

- Oxidative photophosphorylation
- photolysis of water
- Excitation of electron
- Excitation of cell

124. 123) Arrangement of cilia and flagella in eukaryotes: 1 point

Mark only one oval.

- 9+2
- 9+0
- 9+1
- 9+3

125. 124) Dissolved oxygen is decreased in pond due to: 1 point

Mark only one oval.

- Biomagnification
- Eutrophication
- Nitrification
- Denitrification

126. 125) When pyruvic acid is changed to acetyl CoA, it is: 1 point

Mark only one oval.

- Oxidized
- Reduced
- isomerized
- Rearrangement

127. 126) Which of the following has narrow lumen? 1 point

Mark only one oval.

- Fibres
- sclereids
- Tracheids
- Vessels

128. 127) Blocking of sieve tube of phloem is due to: 1 point

Mark only one oval.

- Tyloses
- Callose
- Aerenchyma
- Collenchyma

129. 128) If number of chromosome in *Pisum sativum* is $2n=14$, then the number of linkage groups is: 1 point

Mark only one oval.

- 14
 7
 8
 15

130. 129) Which chromosome has centromere at center? 1 point

Mark only one oval.

- metacentric
 sub-metacentric
 telocentric
 acrocentric

131. 130) The contents of cell are expelled out through the cell membrane, the process is called: 1 point

Mark only one oval.

- phagocytosis
 pinocytosis
 endocytosis
 exocytosis

132. 131) In papilionaceous, the outer large corolla is: 1 point

Mark only one oval.

- keel
 standard
 wings
 alae

133. 132) Hybrid form genetically distinct plants is not possible by traditional plant breeding method but can be obtained by: 1 point

Mark only one oval.

- Somatic hybridization
 Genetic engineering
 inbreeding
 outbreeding

134. 133) Which of the following has same genotypic and phenotypic ratio? 1 point

Mark only one oval.

- co-dominance
 complete dominance
 Epistasis
 Dihybrid cross

135. 134) A bacteria divides every 35 minutes. If a culture containing 10^5 cells per ml is grown for 175 min, what will be the cell concentration per ml after 175 minutes? 1 point

Mark only one oval.

- 32×10^5 cells
- 175×10^5 cells
- 64×10^5 cells
- 16×10^5 cells

136. 135) If a cross is made between diploid ($2n$) female and tetraploid ($4n$) male, the resultant endosperm will be: 1 point

Mark only one oval.

- $2n$
- $3n$
- $4n$
- $5n$

137. 136) Compounds which help in metabolic reactions without itself being changed is: 1 point

Mark only one oval.

- Enzyme
- Hormone
- Nucleic acid
- Nucleoprotein

138. 137) Chemical causing chromosomal abnormality is called 1 point

Mark only one oval.

- Mutagen
- Mutation
- Mutant
- Nucleoprotein

139. 138) Which of the following unwinds DNA molecule? 1 point

Mark only one oval.

- Helicase
- primase
- Folic acid
- Ligase

140. 139) Animals found at bottom of the sea are called 1 point

Mark only one oval.

- Benthos
- Cryptosoma
- Phytoplankton
- Littoral

141. 140) Choose the correct succession type from the given options considering the sequence of different stages as below:
Crustose lichen---Follicular lichen---moss---herbs---shrub---mesophytic tree(climax)
- Mark only one oval.*
- Hydrosere
- Psammosere
- xerosere
- Halosere

ZOOLOGY

142. 141) The increasing order of complexity in canal system of porifera is 1 point
- Mark only one oval.*
- ascon,sycon,leucon
- sycon,leucon,Ascon
- leucon,sycon,ascon
- ascon,leucon,sycon
143. 142) Amphids present in ventrolateral lips of ascaris is: 1 point
- Mark only one oval.*
- chemoreceptor
- gustatoreceptor
- olfactoreceptor
- Tactoreceptor

144. 143) An infected female anopheles mosquito can infect a healthy man when: 1 point
- Mark only one oval.*
- Gametogony is completed
- sporogony is completed
- erythrocytic cycle is completed
- erythrocytic cycle is just started
145. 144) Echinodermata are brainless, heartless and headless; yet from an evolutionary point of view, they have been placed on the top of invertebrates because they: 1 point
- Mark only one oval.*
- have great power of regeneration
- have exclusively marine habit
- are enterocoelomate
- ammonotelic
146. 145) Which of the following is a vertebrate? 1 point
- Mark only one oval.*
- cuttle fish
- globe fish
- cray fish
- devil fish

147. 146) Intraocular pressure in eye is measured by: 1 point

Mark only one oval.

- tonometer
 barometer
 sphygmomanometer
 spirometer

148. 147) Apes are dissimilar from human due to: 1 point

Mark only one oval.

- menstruation in female
 absence of prominent chin
 smaller lumbar region
 absence of tail

149. 148) If the concentration of urea is less than normal in amount of a person, this can be due to: 1 point

Mark only one oval.

- He is on longer hunger strike
 Renal calculi
 Deficiency of ADH
 Bright disease

150. 149) Recapitulation theory, "ontogeny repeats phylogeny" was proposed by: 1 point

Mark only one oval.

- Haeckel
 Hugo de Vries
 Darwin
 Lamarck

151. 150) Grinding organ of earthworm is: 1 point

Mark only one oval.

- pharynx
 gizzard
 stomach
 intestine

152. 151) Intestinal caeca is present in: 1 point

Mark only one oval.

- 30th segment
 14th, 15th, 16th segments
 27th segment
 26th segment

153. 152)Which of the following gland is only present in reptiles? 1 point

Mark only one oval.

- Mucous gland
- Femoral gland
- Sebaceous gland
- Uropygial gland

154. 153)All are true except: 1 point

Mark only one oval.

- Blue whale:Ammonotelic
- Lizard: ureotelic
- Human:ureotelic
- Aves:ureotelic

155. 154)A boy sustained an accident and needs emergency blood and doesnot know the blood group. A doctors friend after consulting the doctor donated him blood immediatly. The blood group doctor friend must have is: 1 point

Mark only one oval.

- O-
- AB+
- O+
- AB-

156. 155) If the fallopian is blocked,which of the following method is used to produce baby? 1 point

Mark only one oval.

- GIFT
- IVF
- VIFT
- SVT

157. 156)4S gland: 1 point

Mark only one oval.

- pancreas
- pituitary
- hypothalamus
- adrenal gland

158. 157)Areolar tissue connects 1 point

Mark only one oval.

- bone to bone
- muscles to bone
- integument and muscles
- muscles to fat

159. 158)Which one carries impulse towards CNS? 1 point

Mark only one oval.

- Auditory
- abducens
- trochlear
- ventral root horn of spinal cord

160. 159)If the mastication area is paralyzed, which of the following nerves is affected? 1 point

Mark only one oval.

- optic
- trigeminal
- oculomotor
- vagus

161. 160)Which of the following cells is not a part of CNS? 1 point

Mark only one oval.

- Microglial cell
- schwann cell
- ependymal cell
- astrocyte cell

162. 161)A pap smear is done around vagina and cervix;what kind of tissue may line those area? 1 point

Mark only one oval.

- simple cuboidal
- keratinized squamous epithelium
- squamous epithelium
- pseudostratified columnar epithelium

163. 162) Thyroid gland is lined by: 1 point

Mark only one oval.

- simple cuboidal epithelium
- simple columnar epithelium
- squamous epithelium
- pseudostratified columnar epithelium

164. 163)The stomach of frog attached to the dorsal wall by means of mesentery called: 1 point

Mark only one oval.

- oxygaster
- endogaster
- mesogaster
- megagaster

165. 164)Mucin present in saliva is: 1 point

Mark only one oval.

- Glycoprotein
- lipoprotein
- phosphoprotein
- chromoprotein

166. 165) Which of the following sets of disease is viral disease? 1 point

Mark only one oval.

- Typhoid,TB
- AIDS,kala-azar
- common cold,Herpes
- Pneumonia and TB

167. 166)Body cavity of Echinodermata is formed by: 1 point

Mark only one oval.

- splitting of mesodermal band
- arrangement of mesenchymal cells
- persistent blastocoel
- archenteron pouch in larval stage

168. 167)specific antibodies are extracted for the diagnosis of cancer in early days. These antibodies are called 1 point

Mark only one oval.

- monoclonal antibody
- polyclonal antibody
- myelonal antibody
- biclonal antibody

169. 168) Enterokinase differs from other intestinal juice like Erepsin,Maltase,lactase etc as: 1 point

Mark only one oval.

- It is an enzyme
- It is an intestinal juice
- It needs to be activated
- It does not digest food

170. 169)Digestion of protein gives: 1 point

Mark only one oval.

- Glucose
- Amino acid
- maltose
- Glycerol

171. 170)If there is deficiency of Iodine,then metamorphosis of tadpole of frog: 1 point

Mark only one oval.

- delays
- stops
- accelerates
- No change

172. 171)All are true for dengue and malaria except: 1 point

Mark only one oval.

- both are viral diseases
- sudden fever
- both are caused by bite of mosquito
- muscular pain

173. 172) muscle co-ordination and control is done by: 1 point

Mark only one oval.

- cerebrum
- cerebellum
- pons
- medulla oblongata

174. 173)Na-K+ ATPase pump pumps 3Na+ outside the axoplasm and K+ outside the axoplasm and K+ inside the axolemma. If 3Na+ atom is pumped out, but only one k+ stom is pumped inside,the axoplasm would be: 1 point

Mark only one oval.

- more positive
- more negative
- neutral
- same charge

175. 174) Human embryo has pharyngeal gill slits and tail.This represent that: 1 point

Mark only one oval.

- Mammals have evolved from fish like ancestor
- Fish and mammals are not related
- both fish and mammal have common ancestor
- Fish have evolved from mammals

176. 175)Darwin believed that certain part of body become more larger and complex through generations because they 1 point

Mark only one oval.

- are used more extensively than other parts
- contribute to greater reproductive success
- are predetermined to do so
- are most similar to gods perfections

177. 176)Although aves have small lungs, they can respire effectively as exchange of gases takes place in: 1 point

Mark only one oval.

- Air sacs
- Alveoli
- open capillaries
- Blood

178. 177)All are the function of Na+ except 1 point

Mark only one oval.

- It binds with glucose
- produces protein and enzymes
- nerves impulse conduction
- Regulates heart activity

179. 178)If earthworm is pricked by needle, then which fluid comes out of its body: 1 point

Mark only one oval.

- coelomic fluid
- blood
- lymph
- plasma

180. 179)Highly concentrated urine is formed: 1 point

Mark only one oval.

- Low ADH secretion
- polyuria
- By drinking a lot of water
- More number of juxtamedullary nephrons

181. 180)You are going on a shivapuri hike with few of your friend. what type of food you would prefer for sustain/peristent source of energy? 1 point

Mark only one oval.

- complex carbohydrate from whole grain
- sugar containing chocolate,bar
- sporty drinks
- fiber containing carbohydrates

MATT

182. 181)If the cost price of 10 pens is same as the selling price of 15 pens,the profit or loss percent is 1 point

Mark only one oval.

- 27%, profit
- 27%, loss
- 33%,Profit
- 33%,Loss

183. 182) Ten years ago, a man was seven times as old as his son. Two years hence, twice his age will be equal to five times the age of his son. What is the present age of the son? 1 point

Mark only one oval.

- 12
 13
 14
 15

184. 183) A train of length 150m reaches one end of bridge of length 1500m. If the velocity of train is 66m/s, in how much time the train will cross the bridge completely? 1 point

Mark only one oval.

- 20 sec
 22.72 sec
 25 sec
 27.27 sec

185. 184) One morning after sunrise, Ramlal and Hari prasad were talking to each other face to face. If shadow of Hari prasad was exactly to the right of Ramlal, Which direction Hari prasad was facing? 1 point

Mark only one oval.

- North
 South
 East
 West

186. 185) If RAJU is coded as 616, then EXAM is coded as 1 point

Mark only one oval.

- 406
 343
 318
 222

187. 186) Forty eight vehicles are parked in parking lot in a single row. After the first car, there is one scooter. After the second, there are two scooters. After the third car, there are three scooters and so on. Workout the number of scooter in the second half of the row. 1 point

Mark only one oval.

- 19
 20
 21
 22

188. 187) Rajan, Sujan, Mohan, Amar, Sangam and Raman are sitting around a round table. Rajan is between Sangam and Raman, Sangam is opposite to Amar and Mohan is not in either of the neighbouring seats of Sangam. Who is opposite to Sujan? 1 point

Mark only one oval.

- Rajan
 Amar
 Mohan
 Raman

189. 188) A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C? 1 point

Mark only one oval.

- Uncle
- Brother
- Grandfather
- Father

190. 189) In a class, 20% of the members own only two cars each, 40% of the remaining own three cars each and the remaining members own only one car each. Which of the following is definitely true for the given statement? 1 point

Mark only one oval.

- Only 20% of the total members own three cars each
- 48% of total members own only one car each
- 60% of the total members own at least two cars each
- 80% of the total members own at least one car each

191. 190) 2, 6, 12, 20, 30, ? 1 point

Mark only one oval.

- 40
- 42
- 46
- 48

192. 191) C, A, X, S, ? 1 point

Mark only one oval.

- R
- O
- N
- L

193. 192) Rajesh and Bhuwan can finish a work in 45 days and 40 days respectively. They began to work together, but Rajesh leaves after some days and Bhuwan completed the remaining work in 23 days. The number of days after which Rajesh left the work 1 point

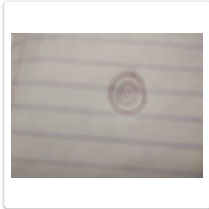
Mark only one oval.

- 7
- 9
- 10
- 15

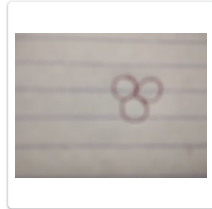
194. 193) Which of the following venn diagram will best show the relationship between boys, students and athletes?

1 point

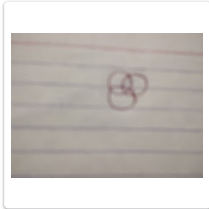
Mark only one oval.



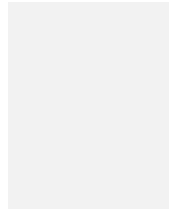
A



B



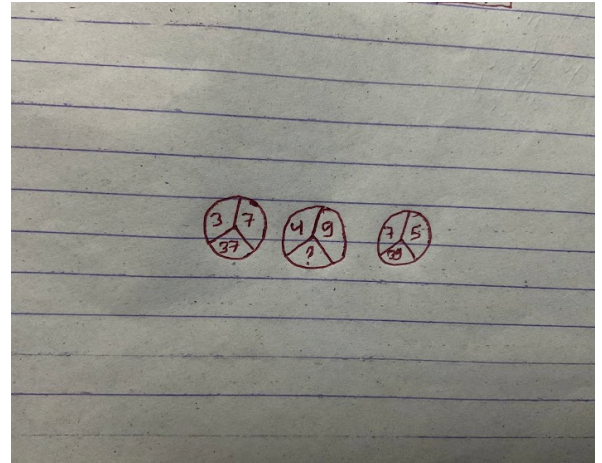
C



None of these

195. 194)

1 point



Mark only one oval.

38

61

49

65

196. 195)

1 f

4	5	9
5	12	7
7	16	12
8	?	14

Mark only one oval.

- 24
- 56
- 72
- 87

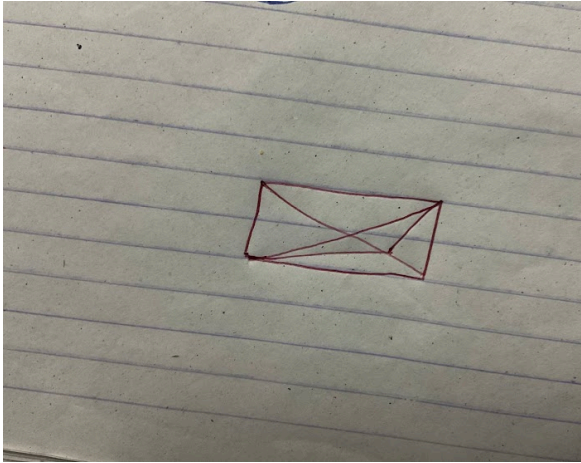
197. 196) If Ram can do a task in 20 days and Krishna can do it in 30 days, then the time taken by both to complete the task working together is 1 point

Mark only one oval.

- 10 days
- 8 days
- 15 days
- 12 days

198. 197) Find the number of triangles in the given figure:

1 f



Mark only one oval.

- 11
- 13
- 15
- 17

199. 198) A can complete a work in 15 days and B can complete the same work in 20 days. If they are working together then in how many days will they complete 35% of the same work

1 point

Mark only one oval.

- 5 days
- 3 days
- 6 days
- 7 days

200. 199) Reptile is to lizard as flower is to

1 point

Mark only one oval.

- Petal
- Stem
- Daisy
- Alligator

201. 200) A and B can do a piece of work in 45 and 40 days respectively. They began the work together but A left then the work after some days and B alone finished the remaining work in 23 days After how many days did A leave?

1 point

Mark only one oval.

- 12 days
- 10 days
- 11 days
- 9 days

This content is neither created nor endorsed by Google.

Google Forms