# Set - 6 Full Length Test - 2026

**By CEE Nepal Preparation**

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1. **CEE TEST PLATFORM**

## PHYSICS

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

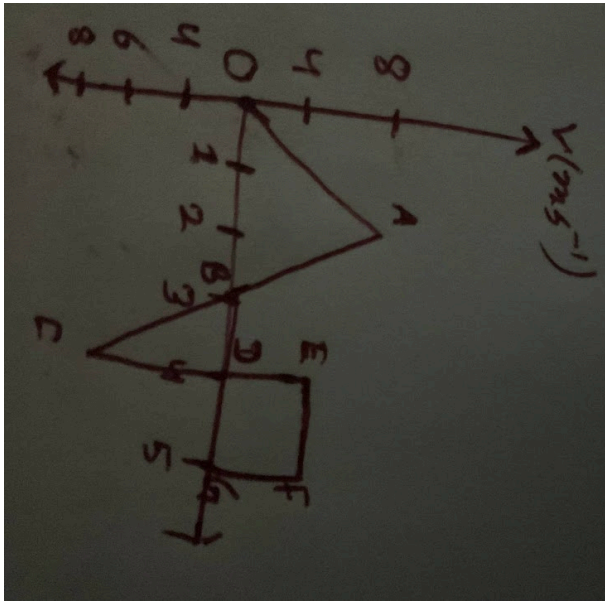
*Mark only one oval.*

- 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 poin




*Mark only one oval.*

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

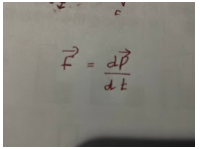
4. 3)Two projectiles are launched simultaneously from the same point with the same speed u, but at angles A and 90-A with the horizontal. Let R1 and R2 be their respective maximum ranges, and H1 and H2 be their respective maximum height. Which of the following statements is correct? 1 point

*Mark only one oval.*

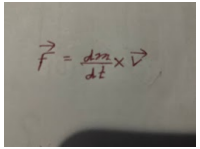
- H1=H2,but R1≠R2
- H1≠H2 but R1=R2
- H1=H2 and R1=R2
- Both H1≠H2 and R1≠R2

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

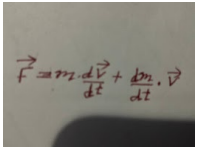
*Mark only one oval.*




A




B




C

None of the above





6. 5)The differential equation of SHM is given $dt2/d2y+100y=0$. The natural frequency of motion is: 1 point

*Mark only one oval.*

- 10/π
- 5/π
- π/5
- π

7. 6) A car is moving with a speed of 30 m/s on a circular path of radius 500m. It's speed is increasing at a rate of 2 m s−2. The acceleration of the car is: 1 point

*Mark only one oval.*

- 0.2m s−2
- 2.7 m s−2
- 1.8 m s−2
- 3.8m 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%



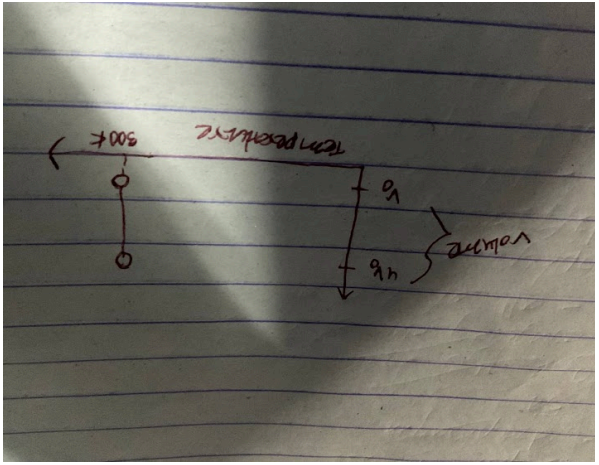


12. 11)Two ideal gases A and B are at the same temperature. If the molar mass of gas A is four times that of gas B, What is the ratio of total kinetic energy per unit mass of B to that of A? 1 point

*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 ln4
- 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 **α=**1.2×10^-5 **°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=0.5m and cross-sectional area, A=1 × 10^-4 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 W/m K,Latent heat of fusion of ice L=3.36 × 10 ^5 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)=2cm 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 R1,R2 and R3 ohms are connected in parallel, R1<R2<R3.What can you stay about the equivalent resistance of the combination? 1 point

*Mark only one oval.*

- It is less than R1
- It is equal to R1
- It is greater than R1
- It lies between R1 and R2





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.*

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

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 V1 and CD it is V2. Then V1/V2 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=4sin[ π(t/5 -x/9)+ π/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=5m/s
- wavelength=18m
- a=0.04 cm
- f=50Hz

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* 10^-7 N
- 3.2*10^-7 N
- 4.8* 10^-7 N
- 0.8* 10^-7 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* 10^-7 N
- 3.2*10^-7 N
- 4.8* 10^-7 N
- 0.8* 10^-7 N

46. 45)Initial mass of a radioactive sample of half-line 6 hoursis 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

## CHEMISTRY

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

*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 IF7 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.*

- Fe(CO)5
- K4[Fe(CN)6]
- FeCL3
- FeCL2

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

N2+3 H2----- 2 NH3

*Mark only one oval.*

- d[N2]/dt = 3d[H2]/dt
- -d[N2]/dt =+1/3 d[H2]/dt
- -2/3 d[H2]/dt = +d[NH3]/dt
- -3 d[H2]/dt =2 d[NH3]/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
4NH3(g)+5O2(g)---4NO(g)+6H2O(l)
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.*

- ΔH=ΔE+PΔV
- ΔH-(ΔE+VΔP)
- ΔH=ΔE-PΔV
- ΔH=PΔV-ΔE

66. 65)For reaction PCL3(g)+CL2(g) ⇌PCL5(g), the value of Kc at 250 **°C** is 26 /mol litre. The value of Kp 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.*

- Na2CO3
- HCOO-
- HCO3-
- H2PO2-

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

*Mark only one oval.*

- NH4CL
- KCL
- CH3COONH4
- CH3COOK

69. 68)The oxidation number of cobalt inK3[Co(NO2)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 224mL 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.*

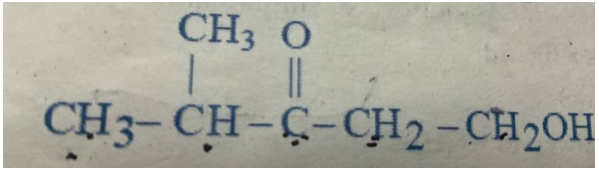
- Cr3+
- cu+
- Zn2+
- Ti4+

82. 81)Super conductors 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 CH2 =CH-CH2-CH2-C ≡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 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 AgNO3 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.*

- CH3CHO
- CH3COOK
- 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 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
- Voilet
- Golden yellow
- Blue

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

*Mark only one oval.*

- Sulphides
- Oxides
- Carbonates
- Silicates

## BOTANY





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
- Tetradynamous

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.*

- Zygospore
- 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
- ATP,H2O
- 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 cystosine is10%,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 women 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
- Collenechyma

129. 128)If number of chromosome is pisum sativum is 2n=14,then the number of linkage group 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 is expelled out through the cell membrane, the process is called: 1 point

*Mark only one oval.*

- phagocytosis
- pinocytosis
- endocytosis
- exo-cytosis





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 stage as below: Crustose lichen----Follicular lichen---moss---herbs---shrub---mesophytic tree(climax) 1 point

*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 ventrolaternal 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 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 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 regin
- 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 diease





150. 149) Recapitulation theory,"ontogency 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.*

- 30 th 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 immediately. 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 effecively 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 carbohydates

## 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) Fourty 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 member own only two cars each, 40% of the remaining own three cars each and the remaining member 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 cars 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

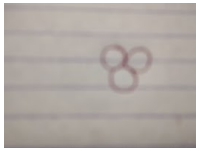
*Mark only one oval.*

- 7
- 9
- 10
- 15

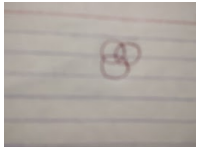
194. 193)Which of the following venn diagram will best show the relationship between boys,students and athelets? 1 poin

*Mark only one oval.*

A



B



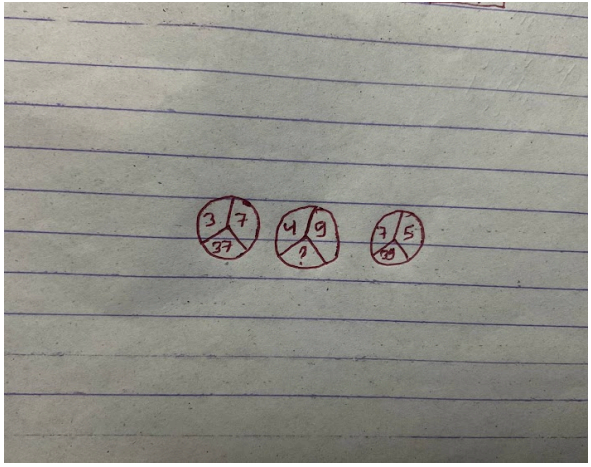
C

None of these





195. 194) 1 p




*Mark only one oval.*

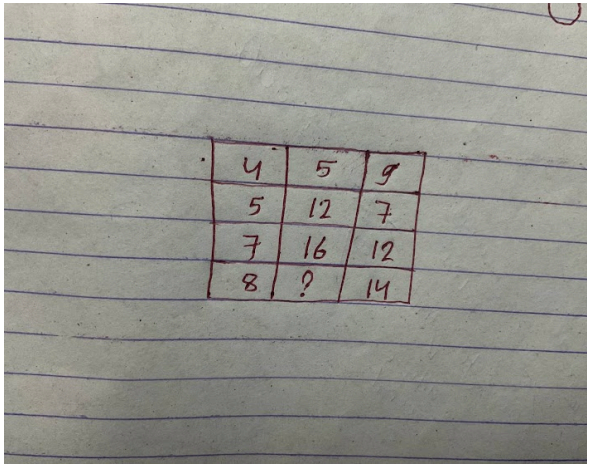
38

61

49

65

196. 195) 1 p




*Mark only one oval.*

- 24
- 56
- 72
- 87



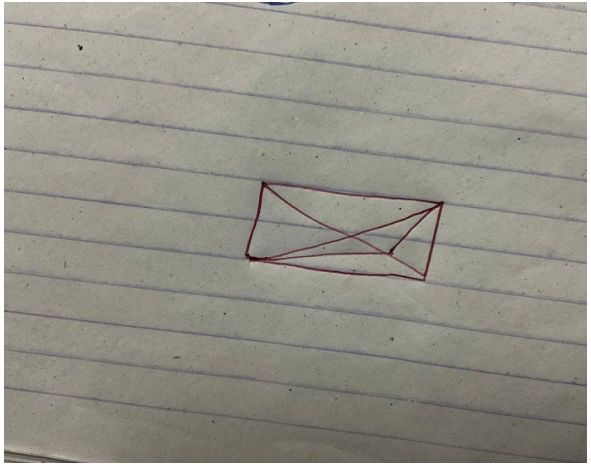


197. 196)If Ram can do a task in 20 days and krishna can do it in 30 days, then the time taken by both to complete the task working together is 1 point

*Mark only one oval.*

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

198. 197)Find the number of triangles in the given figure: 1 p



*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

4/3/26, 11:29 AM Set - 6 Full Length Test - 2026