Set - 3 Full Length Test - 2025

By CEE Nepal Preparation

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* Indicates required question

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CEE NEPAL PREPARATION

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4. Direct ancestor of human is * 1 point

Mark only one oval.

- Hominid
- Anthropoid
- Ape
- Monkey

5. Forest of nephridia is found in: * 1 point

Mark only one oval.

- Prostomium
- Cingulum
- Pharynx
- Peristomium

6. Classification of Porifera is based on: * 1 point

Mark only one oval.

- Spicules
- Water Canal System
- Cell grade
- Circulatory System

7. Organ of Bojanus is related to.....function. * 1 point

Mark only one oval.

- Circulatory
- Respiratory
- Excretory
- Digestive

8. Hodgkin disease is related to: * 1 point

Mark only one oval.

- Tuberculosis
- Cancer
- Typhoid
- Diarrhoea

9. Which is viviparous animal? * 1 point

Mark only one oval.

- Platypus
- Shark
- Reptiles
- Bird

10. Organism tolerate narrow range of salinity is: * 1 point

Mark only one oval.

- Stenohaline
- Homeothermic
- Euryhaline
- Poikilothermic

11. Incomplete digestive system is present in: * 1 point

Mark only one oval.

- Whipworm
- Hookworm
- Tapeworm
- Ascaris

12. Spermatheca pores found in: * 1 point

Mark only one oval.

- 2/3,3/4,4/5,5/6
- 6/7,7/8,8/9,9/10
- 3/4,4/5,5/6,6/7
- 5/6,6/7,7/8,8/9

13. Largest muscle of Human body is: * 1 point

Mark only one oval.

- Gluteus maximus
- Gluteus minimus
- Masseter
- Stapedius

14. In stomach, curdling of milk is caused by: * 1 point

Mark only one oval.

- pepsin
- rennin
- papain
- trypsin

15. Classification of Protozoa on the basis of * 1 point

Mark only one oval.

- Locomotary organ
- Excretory system
- Feeding habit
- Habitat

16. .....is an excretory organ of Platyhelminthes. * 1 point

Mark only one oval.

- Nephridia
- Flame cells
- Kidney
- Coxal gland

17. Sea lily is * 1 point

Mark only one oval.

- Antedon
- Asterias
- Holothurian
- Echinus

18. Which is learned behaviour? * 1 point

Mark only one oval.

- Tendon reflex
- Blinking of eye
- Salivation
- Cycling and dancing

19. Which is incorrect? * 1 point

Mark only one oval.

- Echinodermata-Water vascular system
- Archaeopteryx-Living fossil
- Peripatus-Connecting link
- Mollusca-Gastropoda

20. 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.

- Nucleic acid and protein
- Urea and nucleic acid
- Urea and protien
- Ammonia and protein

21. Which was not present in primitive atmosphere? * 1 point

Mark only one oval.

- O2
- CH4
- NH3
- H2

22. Ameloblast is found in: * 1 point

Mark only one oval.

- Pancreas
- Tooth
- Liver
- Small Intestine

23. In which of the following exflagellation occurs? * 1 point

Mark only one oval.

- Microgametes
- Macrogametes
- Oocytes
- Sporozoites

24. In malaria patient, toxic substance haemozoin is released in: * 1 point

Mark only one oval.

- Spleen
- Liver
- Salivary gland
- Stomach of FAM

25. What volume of blood (in litre) reach kidney in 1 minutes? * 1 point

Mark only one oval.

- 1.2
- 0.8
- 0.4
- 12.5

26. Which is correct with its category? * 1 point

Mark only one oval.

- Stimulant-Amphetamine
- Narcotics-LSD
- Transquilizer-Codeline
- Sedative-Cocaine

27. Which is incorrect? * 1 point

Mark only one oval.

- Myosin-Contractile protein
- Myoglobin-Red Muscle
- Tropoinin-Fibrous protein
- Smooth Muscle-Involuntary muscle

28. ....lines the cavity of bran and secretes CSF? * 1 point

Mark only one oval.

- Astrocytes
- Schwann cells
- Glia cells
- Ependymal cells

29. Duration of Atrial systole is * 1 point

Mark only one oval.

- 0.3 sec
- 0.1 sec
- 0.5 sec
- 0.8 sec

30. Innominate veins of frog is formed by: * 1 point

Mark only one oval.

- External jugular and carotid
- Lingers and Mandibular
- Internal jugular and subscapular
- Subcutaneous and subclavian

31. Forg has * 1 point

Mark only one oval.

- Eye but no pinna
- Mouth with no tooth
- Tongue with no lobe
- Eye with no lid

32. During hibernation frog respires by: * 1 point

Mark only one oval.

- Cutaneous
- Buccopharyngeal
- Skin and lungs
- Pulmonary

33. Symptoms of frequent urination having glucose in urine suggest that the person is suffering from: * 1 point

Mark only one oval.

- D.Mellitus
- D.Insipidus
- D.Polydipsia
- Cretinism

34. If sperm have no acrosome, then * 1 point

Mark only one oval.

- it's motility decreases
- it cannot get nutrition
- it can't penetrate eggs
- it will be more active

35. A newly married women diagnosed by uterine carcinoma had undergoes hysterectomy. Now she wanted to have a child then which of the following situation is done for her? * 1 point

Mark only one oval.

- IVF and eggs lends by surrogate mother
- IVF and eggs lends by intended mother, father sperm and surrogate womb.
- IVF and eggs transfer in uterus of intended mother
- IVF and eggs lend by surrogate mother and father sperms

36. Infective stage of plasmodium: * 1 point

Mark only one oval.

- Merozoite
- Tropohozoite
- Sporozoite
- Ookinete

37. Pearl oyster belongs to class: * 1 point

Mark only one oval.

- Gastropods
- Pelecypoda
- Cephalopoda
- Aplacophora

38. Semicircular canal in internal ear helps in: * 1 point

Mark only one oval.

- Hearing and balancing
- Balancing
- Glans penis
- Hearing

39. Which is not found in penis? * 1 point

Mark only one oval.

- Corpus cavernosa
- Corpus spongiosum
- Corpus callosum
- Glans Penis

40. Characteristics feature of mammal is: * 1 point

Mark only one oval.

- Ear pinna
- Scales on skin
- Cloaca
- Monocular vision

41. Which is correct? * 1 point

Mark only one oval.

- Mollusca-Hemocoelomate
- Platyhelminthes-Eucoelomate
- Arthopoda-Radial Symmetry
- Annelida-Water canal system

42. If blood has more CO2, then breathing will be: * 1 point

Mark only one oval.

- deeper and faster
- slower
- normal
- more pH in blood

43. Whale, bat and rat belongs to same group. They secretes milk and also have: * 1 point

Mark only one oval.

- Muscular diaphragm
- Absent neck
- Aquatic
- Scales on body

44. Nucleotide is * 1 point

Mark only one oval.

- Purine/Pyrimidine+Sugar+Phosphate
- Sugar+Phosphate
- Purine+Sugar+Phosphate
- Pyrimidine+Sugar+Phosphate

45. Inflorescence of Sunflower is: * 1 point

Mark only one oval.

- Head and Capitulum
- Cymose
- Cyathium
- Verticillate

46. Fruit of Poaceae is * 1 point

Mark only one oval.

- Berry
- Caryopsis
- Follicle
- Synconus

47. Double fertilization occurs in * 1 point

Mark only one oval.

- Algae
- Angiosperm
- Bryophyte
- Gymnosperm

48. Which of the following is not a part of flower? * 1 point

Mark only one oval.

- a. Sepal
- b. Petal
- c. Stamen
- d. Root

49. Most common type of ovule in angiosperm is: * 1 point

Mark only one oval.

- Orthotropus
- Anatropus
- Amphitropus
- Campylotropus

50. In angiosperm, Embryo sac represents: * 1 point

Mark only one oval.

- Megasporangium
- Microsporangium
- Female gametocyte
- Male gametophyte

51. Net ATP in kreb's Cycle is * 1 point

Mark only one oval.

- 22
- 24
- 38
- 36

52. Pteridophytes differ from bryophytes in having * 1 point

Mark only one oval.

- Archegonia
- Antheridia
- Ovule
- Vascular tissue

53. In area devasted by forest fire, which grows first? * 1 point

Mark only one oval.

- Liverworts
- Fern
- Moss
- Algae

54. Maximum cellulose is found in: * 1 point

Mark only one oval.

- Primary Cell Wall
- Secondary Cell Wall
- Middle Lamella
- Tertiary Cell Wall

55. Conversion of NH3 to NO-3 is * 1 point

Mark only one oval.

- Denitrification
- Nitrifying
- Nitrogen assimilation
- Nitrogen fixation

56. Formation of DNA from RNA is * 1 point

Mark only one oval.

- Transcription
- Replication
- Transduction
- Reverse Transcription

57. A dwarf pea plant was treated with giberellic acid, it grows as tall as the homozygous tall pea plant. If the giberelic acid treated plant is now crossed with a pure tall pea plant then the phenotypic ratio in the next generation is likely to be: * 1 point

Mark only one oval.

- 100% dwarf
- 100% tall
- 75% tall, 25% dwarf
- 50% dwarf, 50% tall

58. Which is incorrect about Marchantia? * 1 point

Mark only one oval.

- Leafy gametophyte and erect
- Stalked gametophores
- Inverted archegonia
- Gemma cup

59. Gymnosperms have naked seed due to absent of * 1 point

Mark only one oval.

- Seed coat
- Ovule
- Ovary
- Embryo sac

60. Plants that grow in salty soil is known as: * 1 point

Mark only one oval.

- Oxylophytes
- Hydrophytes
- Halophytes
- Chasmophytes

61. Diverification in plant life appeard due to: * 1 point

Mark only one oval.

- Long period evolutionary change
- Abrupt Mutation
- Sudden change
- By seed dispersal

62. Chloroplasts is semi autonomous organelles due to: * 1 point

Mark only one oval.

- They contain DNA but lack protein
- They contain DNA and have some protein
- They originate from Golgi Bodies
- They dont have genetic Materials

63. A plant cell has potential to develop into a full plant. This is called as: * 1 point

Mark only one oval.

- Gene clonning
- Regeneration
- Totipotency
- Tissue culture

64. 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

65. 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

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

Mark only one oval.

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

67. 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

68. 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

69. Which organelle eats old organelles? * 1 point

Mark only one oval.

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

70. If Adenine in DNA is 29%, then cytosine is: * 1 point

Mark only one oval.

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

71. Most abundant protein is: * 1 point

Mark only one oval.

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

72. 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

73. 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

74. Osmotic pressure is measured by: * 1 point

Mark only one oval.

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

75. Coenocytic hyphae is * 1 point

Mark only one oval.

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

76. DNA replication occurs in * 1 point

Mark only one oval.

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

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

Mark only one oval.

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

78. If starch converts to organic acid in them stomata * 1 point

Mark only one oval.

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

79. 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

80. In F2 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

81. In Kathmandu valley, photochemical sensation due to * 1 point

Mark only one oval.

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

82. Force responsible for water transfer from to cell is: * 1 point

Mark only one oval.

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

83. 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

84. Dimension of angular momentum is: * 1 point

Mark only one oval.

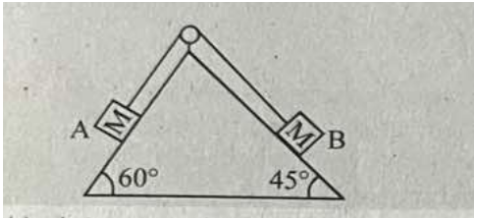
- a. ML^2T^{-2}
- b. $M^1 L^2 T^{-1}$
- c. MLT^{-1}
- d. MLT

85. The external & internal diameter of a hollow cylinder are measured to be (4.23 ± 0.01) cm & (3.89 ± 0.01) cm respectively. The thickness of wall of the cylinder is: * 1 point

Mark only one oval.

- a. (0.34±0.02)cm
- b. (0.34±0.01)cm
- c. (0.17±0.01)cm
- d. (0.17±0.02)cm

86. Two blocks each of mass M are resting on a frictionless inclined plane as shown in figure. Then (A: 60°, B: 45°) * 1 point



Mark only one oval.

- a. The block A moves down the plane
- b. The block B moves down the plane
- c. Both the blocks remain at rest
- d. Both the blocks move down the plane.

87. At what height from Earth's surface acceleration due to gravity is reduced to 4 times, if acceleration due to gravity at Earth's surface is g? * 1 point

Mark only one oval.

- a. R
- b. R/4
- c. 4R
- d. 2R

88. The escape velocity on Earth for a satellite launched vertically is 11 km/s. If satellite is launched making an angle 45° with the vertical, then escape velocity will be: * 1 point

Mark only one oval.

- a. 11 km/s
- b. 22 km/s
- c. 33 km/s
- d. 44 km/s

89. With rise in temperature, the Young's modulus of elasticity: * 1 point

Mark only one oval.

- a. Increases
- b. Decreases
- c. Remains constant
- d. Becomes zero

90. In a glass having liquid whose cohesive force > adhesive force, the meniscus formed is: * 1 point

Mark only one oval.

- a. Concave
- b. Convex
- c. Plane
- d. Oval

91. The coefficient of viscosity for hot air is: * 1 point

Mark only one oval.

- a. Greater than the coefficient of viscosity for cold air
- b. Smaller than the coefficient of viscosity for cold air
- c. Same as the coefficient of viscosity of cold air
- d. Increases or decreases depending on the external pressure

92. A small spherical ball with density equal to density of liquid is immersed in it. Then terminal velocity of the ball will be: * 1 point

Mark only one oval.

- a. 1
- b. Infinity
- c. 100
- d. 0

93. Which of the following is correct for stable equilibrium? * 1 point

Mark only one oval.

- a. Metacentre below C.G.
- b. C.G. below metacentre
- c. Metacentre should coincide C.G.
- d. Metacentre height should be zero

94. The amount of heat required to convert 1 gram water from 3.5°C to 4.5°C is: * 1 point

Mark only one oval.

- a. 1 Joule
- b. 1 Calorie
- c. 4.2 Calorie
- d. 42 Calorie

95. Two substances having ratio of mass 3:2 & ratio of specific heat 1:4 are heated equally, then ratio of their rise in temperature is: * 1 point

Mark only one oval.

- a. 8:3
- b. 3:8
- c. 1:4
- d. 4:1

96. The saturation vapor pressure for water at 100°C is: * 1 point

Mark only one oval.

- a. 766 mmHg
- b. 716 mmHg
- c. 760 mmHg
- d. 750 mmHg

97. A vessel has 6 g of oxygen at pressure P & temperature 400 K. A small hole is made in it so that oxygen leaks out. How much oxygen leaks out if the final pressure is at P/2 & temperature 300 K? * 1 point

Mark only one oval.

- a. 2 g
- b. 3 g
- c. 4 g
- d. 5 g

98. At 300 K, radiated energy is proportional to * 1 point

Mark only one oval.

- a. 300^3
- b. 300^2
- c. 300^4
- d. 300

99. Current in a circuit falls steadily from 5.0A to 0.0A in 10ms. If self inductance of the circuit is 10mH, then the emf induced will be: * 1 point

Mark only one oval.

- a. 50V
- b. 5V
- c. 1V
- d. 10V

100. A thread subtended between two ends, has harmonics in ratio: * 1 point

Mark only one oval.

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

101. When current 'I' is flowing through a conductor, the drift velocity is 'v'. If the value of current through the conductor and its area of cross-section are doubled, then the new drift velocity will be: * 1 point

Mark only one oval.

- a. 4v
- b. $\sqrt{2}$ v
- c. $\sqrt{4}$ v
- d. v

102. The intensity level due to two waves of same frequency in a given medium are 1 Bel & 5 Bel, then the ratio of their amplitudes is: * 1 point

Mark only one oval.

- a. 1 : 4
- b. 1 : 2
- c. $1 : 10^4$
- d. $1 : 10^3$

103. A source is moving towards a stationary observer and the apparent frequency heard by observer is twice the original frequency. The velocity of sound source is (velocity of sound is v): * 1 point

Mark only one oval.

- a. v
- b. v/2
- c. 2v
- d. v/4

104. The Sun appears reddish during sunrise and sunset. The phenomenon in optics which is responsible for this appearance of the Sun is: * 1 point

Mark only one oval.

- a. Reflection
- b. Scattering
- c. Interference
- d. Total internal reflection

105. An equiconvex lens has a power of 4 Diopter. If it is made of glass of refractive index 1.5, then radius of curvature of its each surface will be: * 1 point

Mark only one oval.

- a. 25 cm
- b. 100 cm
- c. 4 cm
- d. 10 cm

106. Two waves having amplitude 3a & a are superimposed, then the ratio of maximum and minimum intensities because superimposition will be: * 1 point

Mark only one oval.

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

107. Bright colors exhibited by spider exposed to sunlight are due to: * 1 point

Mark only one oval.

- a. diffraction
- b. refraction
- c. reflection
- d. interference

108. When distance is doubled, (force between two charges) becomes: * 1 point

Mark only one oval.

- a. Halved
- b. 1/4 times
- c. Quadrupled
- d. Doubled

109. A parallel plate capacitor has a uniform field E in the space between the plates, distance between the plates is d and each plate is A, the energy stored capacitor is: * 1 point

Mark only one oval.

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

110. 'n' equal capacitors were first connected series and then in parallel. The ratio of maximum to minimum capacitance in combination is: * 1 point

Mark only one oval.

- a. $1/n^2$
- b. 1/n
- c. n
- d. n^2

111. A wire of 50 cm long, 1mm² in cross-section carries a current of 4 A when connected to a battery. The resistivity of wire is: * 1 point

Mark only one oval.

- a. 4×10^{-6} Ωm
- b. 2×10^{-7} Ωm
- c. 5×10^{-7} Ωm
- d. 1×10^{-6} Ωm

112. Find equivalent resistance between A and B where each R = 1Ω. * 1 point

Mark only one oval.

- a. 1Ω
- b. 5/3Ω
- c. 3/4Ω
- d. 7/6Ω

113. The emf of a cell is 6V and internal resistance is 0.5kΩ. The reading of a voltmeter having an internal resistance of 2.5kΩ is * 1 point

Mark only one oval.

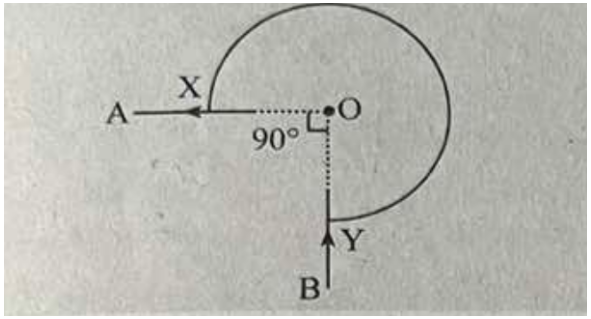
- a. 1V
- b. 10V
- c. 5V
- d. 10^{-3}V

114. If θ_n is neutral temperature, temperature of inversion is θ_i & temperature of cold junction is θ_o. What is relation between θ_i & θ_n? * 1 point

Mark only one oval.

- a. $2\theta_n = \theta_o + \theta_i$
- b. $2\theta_n = \theta_o - \theta_i$
- c. $\theta_n = \theta_o + \theta_i$
- d. $\theta_n = \theta_o + \theta_i$

115. The magnetic field at the centre is: (Diagram described as a 90° arc) * 1 p



Mark only one oval.

- a. $\mu_0 I / 4r$
- b. $\mu_0 I / 2r$
- c. $3\mu_0 I / 8r$
- d. $\mu_0 I / 8r$

116. A circular loop of wire carrying current is hung freely from a thread. * 1 point
The plane of the loop will point in the direction:

Mark only one oval.

- a. North-South
- b. East-West
- c. Wherever left free
- d. At 45° with East-West direction

117. A proton is about 1836 times heavier than an electron. If the proton is * 1 point
accelerated through 1V, then its kinetic energy is:

Mark only one oval.

- a. 1836 eV
- b. 1 eV
- c. 1 MeV
- d. 1836 MeV

118. 1 eV is equal to * 1 point

Mark only one oval.

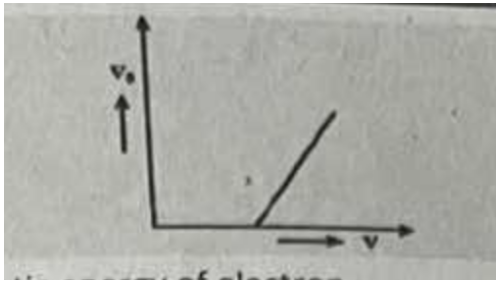
- a. 1.6×10^{-19} J
- b. 10 erg
- c. $1.1\text{x } 10^{-38}$ erg
- d. $1.1\text{x}10^{-11}$ erg

119. The magnitude of saturation photoelectric current depends upon: * 1 point

Mark only one oval.

- a. Intensity
- b. Stopping potential
- c. Frequency
- d. Wavelength

120. In photoelectric effect, the slope of straight line graph between stopping potential and frequency of incident light gives: * 1 point



Mark only one oval.

- a. Kinetic energy of electron
- b. Work function
- c. Ratio of Planck's constant & charge of electron
- d. Photoelectric current

121. If proton and electron have the same de-Broglie wavelength, which have the maximum Kinetic energy? * 1 point

Mark only one oval.

- a. Electron
- b. Proton
- c. Both have equal amount of Kinetic energy
- d. Cannot be determined

122. Hard X-ray differs from soft X-ray in having: * 1 point

Mark only one oval.

- a. Low wavelength
- b. Low energy
- c. Low frequency
- d. Long wavelength

123. Two nuclei have their mass numbers in the ratio of 1:3. The ratio of their nuclear densities would be: * 1 point

Mark only one oval.

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

124. Refractive index doesn't depend upon * 1 point

Mark only one oval.

- a. Temperature
- b. Intensity
- c. Wavelength
- d. Optical density

125. Find X & Y. * 1 point

$_{7}N^{14} + {}_{0}n^{1} \rightarrow {}_{6}C^{14} + X$

$_{5}B^{10} + {}_{2}He^{4} \rightarrow {}_{7}N^{13} + Y$

Mark only one oval.

- a. $^{1}H^{1}$ & $_{0}n^{1}$
- b. $_{0}n^{1}$ & $_{+1}e^{0}$
- c. $_{-1}e^{0}$ & $^{1}H^{1}$
- d. $_{0}n^{1}$ & $^{1}H^{1}$

126. To make P-type semiconductor, intrinsic semiconductor is doped with impurity which is: * 1 point

Mark only one oval.

- a. Tetravalent
- b. Pentavalent
- c. Trivalent
- d. Divalent

127. Potential barrier in PN diode is due to * 1 point

Mark only one oval.

- a. Diffusion of charge carriers
- b. Drift of electrons
- c. Drift of holes
- d. Forbidden band

128. How many diodes are needed for full wave rectifier? * 1 point

Mark only one oval.

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

129. In common base mode of a transistor, the collector current is 5.488 mA and emitter current is 5.60 mA. The value of the base current amplification factor (β) will be: * 1 point

Mark only one oval.

- a. 49
- b. 48
- c. 50
- d. 51

130. Quark combination for antineutron: * 1 point

Mark only one oval.

- a. udd
- b. uud
- c. dud
- d. udu

131. Suppose that galaxy B is twice as far from earth as galaxy A. Hubble's law predicts that galaxy B will be moving away from earth with approximately: * 1 point

Mark only one oval.

- a. 2 times the velocity of galaxy A
- b. 4 times the velocity of galaxy A
- c. same velocity
- d. no velocity

132. The % of dark matter in universe is: * 1 point

Mark only one oval.

- a. 85%
- b. 25%
- c. 15%
- d. 30%

133. In a LCR circuit, the value of E is more than 200V at (f = 50 Hz, E = 200 V): * 1 point

Mark only one oval.

- a. Resistor
- b. Inductor
- c. Capacitor
- d. Inductor or Capacitor according to value of C or L

134. Indigo is: * 1 point

Mark only one oval.

- a. Vat dye
- b. Phenolphthalein
- c. Basic dye
- d. Mordant

135. Which is used as electrode? * 1 point

Mark only one oval.

- a. $CuSO_4$
- b. Corrosive sublimate
- c. Zinc oxide
- d. Calomel

136. $F_2C=CF_2$ is a monomer of: * 1 point

Mark only one oval.

- a. TFE
- b. Nylon
- c. Teflon
- d. Polyethene

137. Citric acid is present in lemon. Apple contains: * 1 point

Mark only one oval.

- a. Lactic acid
- b. Malic acid
- c. Citric acid
- d. Tartaric acid

138. Which is strong acid? * 1 point

Mark only one oval.

- a. p-nitro phenol
- b. o-nitro phenol
- c. m-nitro phenol
- d. o-amino phenol

139. The alkali metal that reacts with nitrogen directly to form nitride is: * 1 point

Mark only one oval.

- a. Na
- b. Li
- c. Cs
- d. K

140. Iron obtained from blast furnace is known as: * 1 point

Mark only one oval.

- a. Wrought iron
- b. Pig iron
- c. Mild iron
- d. Cast iron

141. There is a compound called X which has a rotten smell. It gives black ppt with Cu^{2+} ion. Identify the compound: * 1 point

Mark only one oval.

- a. H_2S
- b. NH_3
- c. CH_3
- d. PH_3

142. The allotrope of carbon which is a superconductor is: * 1 point

Mark only one oval.

- a. Fullerene
- b. Graphite
- c. Diamond
- d. Lamp black

143. When carbon is sp^2 hybridized, it is attached to how many other atoms? * 1 point

Mark only one oval.

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

144. The removal of oxygen from a substance is known as: * 1 point

Mark only one oval.

- a. Reduction
- b. Oxidation
- c. Hydration
- d. Dehydrogenation

145. Common name of nitrobenzene: * 1 point

Mark only one oval.

- a. Oil of mirbane
- b. Oil of vitriol
- c. Oil of bitter almond
- d. Oil of cinnamon

146. Lindlar catalyst reacts with alkyne to produce: * 1 point

Mark only one oval.

- a. Alkene
- b. Cis-alkene
- c. Trans-alkene
- d. Alkane

147. $CH_3MgX + CH_3CN$ gives: * 1 point

Mark only one oval.

- a. Acetone
- b. Ethanol
- c. Acetaldehyde
- d. Ethanolic acid

148. Compound when treated with alkali & iodide gives a yellow precipitate with characteristic hospital smell is: * 1 point

Mark only one oval.

- a. 2-pentanone
- b. Propanal
- c. 3-pentanone
- d. NH_3

149. Which of the following has the lowest pKa? * 1 point

Mark only one oval.

- a. CH_3COOH
- b. HCOOH
- c. CH_3CH_2COOH
- d. $CH_3CH_2CH_2COOH$

150. Which is used in reducing body temperature? * 1 point

Mark only one oval.

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

151. Which of the following reacts with Tollens reagent depositing silver mirror? * 1 point

Mark only one oval.

- a. Acetic acid
- b. Acetone
- c. Ethanol
- d. Acetaldehyde

152. Which of the following has zero dipole moment? * 1 point

Mark only one oval.

- a. CCl_4
- b. $CHCl_3$
- c. CH_3Cl
- d. CH_2Cl_2

153. Bohr's model failed to explain: * 1 point

Mark only one oval.

- a. Hydrogen spectrum
- b. Stark and Zeeman Effect
- c. Atomic spectrum
- d. Angular momentum is integral multiple of h/2π

154. What is the O.S. of S in H_2SO_4? * 1 point

Mark only one oval.

- a. +2
- b. +6
- c. +5
- d. +3

155. Which allotrope of phosphorous produces phosphorescence? * 1 point

Mark only one oval.

- a. Scarlet
- b. Red phosphorus
- c. Black phosphorus
- d. White phosphorus

156. Which of the following is isoelectronic to K^+? * 1 point

Mark only one oval.

- a. S
- b. Na^+
- c. Ar
- d. Ca^{++}

157. Which of the following is not used as reducing agent in metallurgy process? * 1 point

Mark only one oval.

- a. CO
- b. CO_2
- c. H_2
- d. C

158. Which of one of the following burns in the air giving a gaseous oxide (at room temperature)? * 1 point

Mark only one oval.

- a. Na
- b. H
- c. S
- d. He

159. Which of the following emission doesn't change atomic number? * 1 point

Mark only one oval.

- a. γ emission
- a. β emission
- c. alpha emission
- d. electron emission

160. A boy went to clean an unused well. After some time he was found dead. Which of the following gases may have killed him? * 1 point

Mark only one oval.

- a. CO_2
- b. CO
- c. SO_2
- d. HCN

161. Which is important for flowering? * 1 point

Mark only one oval.

- a. Phosphorus
- b. Nitrogen
- c. Potassium
- d. Calcium

162. Which of the following species has 10 electrons and 11 protons? * 1 point

Mark only one oval.

- a. Ne
- b. Na
- c. Na^+
- d. Na^-

163. Which of the following favors the substance in solid state? * 1 point

Mark only one oval.

- a. High thermal energy
- b. Low temperature
- c. High temperature
- d. Weak concentration

164. Which of the following has two groups? * 1 point

Mark only one oval.

- a. Carboxylic acid
- b. Acid anhydride
- c. Ester
- d. Amino acid

165. Which of the following is not a metal? * 1 point

Mark only one oval.

- a. Fe
- b. Cu
- c. Hg
- d. Ar

166. Which of the following is correct order of size of species of iodine? * 1 point

Mark only one oval.

- a. $I^- > I > I^+$
- b. $I^+ > I > I^-$
- c. $I > I^+ > I^-$
- d. $I^- > I^+ > I$

167. Which of the following is not used in bleaching of pulp? * 1 point

Mark only one oval.

- a. $CaOCl_2$
- b. NH_3
- c. Cl_2
- d. NaOH

168. C_2H_5OH + Conc. $H_2SO_4 \rightarrow H_2O + H_2SO_4$. What is the name of reaction? * 1 point

Mark only one oval.

- a. Disproportionation
- b. Dehydration
- c. Displacement
- d. Substitution

169. Which of the following does not react with Grignard reagent? * 1 point

Mark only one oval.

- a. Ester to form tertiary alcohol
- b. Aldehyde to form alcohol
- c. Acetaldehyde to form tertiary alcohol
- d. CO_2 to give carboxylic acid

170. Proton accelerates the hydrolysis of Ester. This is an example of: * 1 point

Mark only one oval.

- a. Heterogeneous catalyst
- b. Auto catalyst
- c. Promoter
- d. Negative catalyst

171. * 1 p

P	Q_2	Rate
0.16	0.16	0.16
0.16	0.32	0.32
0.32	0.32	0.32

a. $[R] = [P]\,[Q_2]$ b. $[R] = [Q_2]$

c. $[R] = [Q]^2$ d. $[R] = [P]\,[Q_2]^2$

Mark only one oval.

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

172. pH of 0.02N of NaOH is: * 1 point

Mark only one oval.

- a. 12
- b. 13
- c. 11.5
- d. 14

173. What is the concentration of solution in ppm for 0.1g/L of Arsenic? * 1 point

Mark only one oval.

- a. 1000 ppm
- b. 1 ppm
- c. 100 ppm
- d. 10 ppm

174. Sodium iodate is treated with Sodium bisulphite solution to give: * 1 point

Mark only one oval.

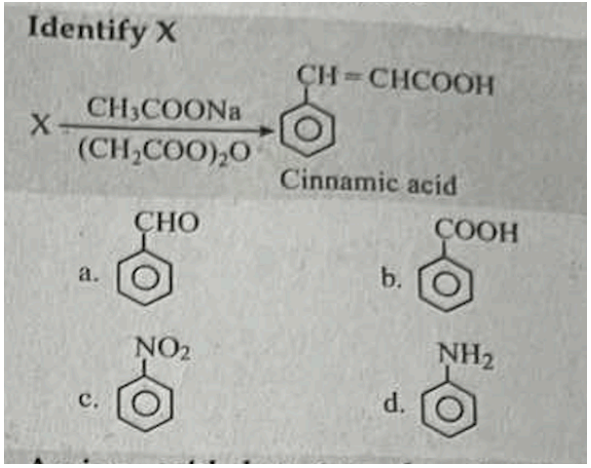
- a. Iodine
- b. S
- c. SO_2
- d. HI

175. Lower density of ice than water is due to * 1 point

Mark only one oval.

- a. A cage-like structure formed due to intermolecular H-bond
- b. A cage-like structure formed due to intramolecular H-bond
- c. due to covalent bond
- d. due to Vander Waal's force

176. Identity X * 1 p



Mark only one oval.

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

177. Amino acid has two functional groups. If amino acid is subjected to decarboxylation, then it forms: * 1 point

Mark only one oval.

- a. Carboxylic acid
- b. Alcohol
- c. Primary amine
- d. Ethanol

178. The molecular formula of a carboxylic acid whose empirical formula is CH_2O_2 can be: * 1 point

Mark only one oval.

- a. CH_2O_2
- b. $C_2H_4O_4$
- c. CH_3O_2
- d. $C_2H_5O_2$

179. An element X (atm. mass 30) forms 60% & other element Y (atm. mass 13) forms 40% of a compound. Find empirical formula of the compound. * 1 point

Mark only one oval.

- a. X_2Y_3
- b. X_3Y_2
- c. XY_2
- d. X_3Y

180. Chemist doesn't mind about the composition of H_2S either obtained from stomach or made in lab. This is due to: * 1 point

Mark only one oval.

- a. Law of conservation of mass
- b. Law of multiple proportion
- c. Law of definite proportion
- d. Law of reciprocal proportion

181. Which is the heaviest liquid? * 1 point

Mark only one oval.

- a. Hg
- b. H_2O
- c. Glycerol
- d. NH_3

182. Which has maximum catenation property? * 1 point

Mark only one oval.

- a. S
- b. C
- c. Si
- d. O

183. Phenol reacts with chloroform & NaOH to form: * 1 point

Mark only one oval.

- a. Salicylic acid
- b. Salicylaldehyde
- c. Benzoic acid
- d. Carbylamine

184. 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

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

Mark only one oval.

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

186. **From the given Venn diagram find the number of female experience teacher but not in PG:** * 1 point
(F = Female experience, T = Teacher, P = PG)

Mark only one oval.

- a. 4
- b. 9
- c. 6
- d. 8

187. **Arrange in sensible order** * 1 point

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

Mark only one oval.

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

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

Mark only one oval.

- a. 6 times
- b. 9 times
- c. 5 times
- d. 3 times

189. 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

190. If Ram bahadur walks 5 km north, then 2 km south and then finally travel 4 km left. In which direction Ram bahadur travels? * 1 point

Mark only one oval.

- a. 5 km north east
- b. 5 km east
- c. 7 km south
- d. 7 km south

191. 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

192. If Reeta works Geeta works too. If Geeta works Mina does not work. If Mina does not work Riya does not work too then which is correct * 1 point

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

193. Niva, Mina, Sita, Gita, Rita are five friends in a circle in clockwise facing the centre. Sita moves to Mina's place and Mina moves to Sita's place and also Gita moves to Rita's place and Rita moves to Gita's place then: * 1 point

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

194. 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

195. Fill it * 1 point
aa_aa/bb_b_/a_baa/bb_bb

Mark only one oval.

- babba
- bbaab
- baaab
- babaa

196. * 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

197. 6 : 13 : 32 : ..... : 130 * 1 point

Mark only one oval.

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

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

Mark only one oval.

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

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

Mark only one oval.

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

200. 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

201. **200.** 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

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