

BOTANY

SECTION-A

101. Given below are two statements : One labelled as **Assertion A** and the other labelled as **Reason R**:

Assertion A : The first stage of gametophyte in the life cycle of moss is protonema stage.

Reason R : Protonema develops directly from spores produced in capsule.

In the light of the above statements, choose the **most appropriate** answer from options given below:

- (1) A is not correct but R is correct
- (2) Both A and R are correct and R is the correct explanation of A
- (3) Both A and R are correct but R is NOT the correct explanation of A
- (4) A is correct but R is not correct

Answer (2)

- 102. Cellulose does not form blue colour with lodine because
 - (1) It breaks down when iodine reacts with it
 - (2) It is a disaccharide
 - (3) It is a helical molecule
 - (4) It does not contain complex helices and hence cannot hold iodine molecules

Answer (4)

- 103. Which micronutrient is required for splitting of water molecule during photosynthesis?
 - (1) Copper
 - (2) Manganese
 - (3) Molybdenum
 - (4) Magnesium

Answer (2)

- 104. Expressed Sequence Tags (ESTs) refers to
 - (1) Certain important expressed genes.
 - (2) All genes that are expressed as RNA.
 - (3) All genes that are expressed as proteins.
 - (4) All genes whether expressed or unexpressed.

Answer (2)

- 105. The thickness of ozone in a column of air in the atmosphere is measured in terms of :
 - (1) Kilobase

- (2) Dobson units
- (3) Decibels (4) Decameter

Answer (2)

- 22 -



106. Given below are two statements : One is labelled as **Assertion A** and the other is labelled as **Reason R : Assertion A :** ATP is used at two steps in glycolysis.

Reason R : First ATP is used in converting glucose into glucose-6-phosphate and second ATP is used in conversion of fructose-6-phosphate into fructose-1, 6-diphosphate.

In the light of the above statements, choose the **correct** answer from the options given below :

- (1) **A** is false but **R** is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is NOT the correct explanation of A.
- (4) **A** is true but **R** is false.

Answer (2)

- 107. Upon exposure to UV radiation, DNA stained with ethidium bromide will show
 - (1) Bright orange colour
 - (2) Bright red colour
 - (3) Bright blue colour
 - (4) Bright yellow colour

Answer (1)

- 108. Among 'The Evil Quartet', which one is considered the most important cause driving extinction of species?
 - (1) Co-extinctions
 - (2) Habitat loss and fragmentation
 - (3) Over exploitation for economic gain
 - (4) Alien species invasions

Answer (2)

- 109. Which of the following stages of meiosis involves division of centromere?
 - (1) Telophase
 - (2) Metaphase I
 - (3) Metaphase II
 - (4) Anaphase II

Answer (4)

- 110. Which hormone promotes internode/petiole elongation in deep water rice?
 - (1) 2, 4-D (2) GA₃
 - (3) Kinetin (4) Ethylene

Answer (4)

- 111. Frequency of recombination between gene pairs on same chromosome as a measure of the distance between genes to map their position on chromosome, was used for the first time by
 - (1) Henking
 - (2) Thomas Hunt Morgan
 - (3) Sutton and Boveri
 - (4) Alfred Sturtevant

Answer (4)



- 112. How many ATP and NADPH2 are required for the synthesis of one molecule of Glucose during Calvin cycle?
 - (1) 18 ATP and 16 NADPH₂
 - (2) 12 ATP and 12 NADPH₂
 - (3) 18 ATP and 12 NADPH₂
 - (4) 12 ATP and 16 NADPH₂

Answer (3)

- 113. What is the role of RNA polymerase III in the process of transcription in Eukaryotes?
 - (1) Transcription of only snRNAs
 - (2) Transcription of rRNAs (28S, 18S and 5.8S)
 - (3) Transcription of tRNA, 5S rRNA and snRNA
 - (4) Transcription of precursor of mRNA

Answer (3)

- 114. Family Fabaceae differs from Solanaceae and Liliaceae. With respect to the stamens, pick out the characteristics specific to family Fabaceae but not found in Solanaceae or Liliaceae.
 - (1) Epiphyllous and Dithecous anthers
 - (2) Diadelphous and Dithecous anthers
 - (3) Polyadelphous and epipetalous stamens
 - (4) Monoadelphous and Monothecous anthers

Answer (2)

- 115. The process of appearance of recombination nodules occurs at which sub stage of prophase I in meiosis?
 - (1) Diakinesis
 - (3) Pachytene

(2) Zygotene(4) Diplotene

Answer (3)

116. In the equation GPP - R = NPP

GPP is Gross Primary Productivity

NPP is Net Primary Productivity

R here is _____.

- (1) Reproductive allocation
- (2) Photosynthetically active radiation
- (3) Respiratory quotient
- (4) Respiratory loss

Answer (4)

- 117. The reaction centre in PS II has an absorption maxima at
 - (1) 780 nm
 - (2) 680 nm
 - (3) 700 nm
 - (4) 660 nm
 - Answer (2)



- 118. Unequivocal proof that DNA is the genetic material was first proposed by
 - (1) Wilkins and Franklin
 - (2) Frederick Griffith
 - (3) Alfred Hershey and Martha Chase
 - (4) Avery, Macleoid and McCarthy

Answer (3)

- 119. Spraying of which of the following phytohormone on juvenile conifers helps hastening the maturity period, that leads early seed production?
 - (1) Abscisic Acid
 - (2) Indole-3-butyric Acid
 - (3) Gibberellic Acid
 - (4) Zeatin

Answer (3)

- 120. What is the function of tassels in the corn cob?
 - (1) To protect seeds
 - (2) To attract insects
 - (3) To trap pollen grains
 - (4) To disperse pollen grains

Answer (3)

- 121. During the purification process for recombinant DNA technology, addition of chilled ethanol precipitates out
 - (1) Polysaccharides

- (2) RNA
- (3) DNA (4) Histones

Answer (3)

- 122. In angiosperm, the haploid, diploid and triploid structures of a fertilized embryo sac sequentially are :
 - (1) Synergids, antipodals and Polar nuclei
 - (2) Synergids, Primary endosperm nucleus and zygote
 - (3) Antipodals, synergids, and primary endosperm nucleus
 - (4) Synergids, Zygote and Primary endosperm nucleus

Answer (4)

- 123. Large, colourful, fragrant flowers with nectar are seen in
 - (1) Wind pollinated plants
 - (2) Insect pollinated plants
 - (3) Bird pollinated plants
 - (4) Bat pollinated plants

Answer (2)

- 124. In tissue culture experiments, leaf mesophyll cells are put in a culture medium to form callus. This phenomenon may be called as
 - (1) Senescence
 - (2) Differentiation
 - (3) Dedifferentiation
 - (4) Development



125. Given below are two statements :

Statement I : The forces generated transpiration can lift a xylem-sized column of water over 130 meters height.

Statement II : Transpiration cools leaf surfaces sometimes 10 to 15 degrees evaporative cooling.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (1) Statement I is incorrect but Statement II is correct
- (2) Both Statement I and Statement II are correct
- (3) Both Statement I and Statement II are incorrect
- (4) Statement I is correct but Statement II is incorrect

Answer (2)

- 126. The historic Convention on Biological Diversity, 'The Earth Summit' was held in Rio de Janeiro in the year
 - (1) 2002 (2) 1985
 - (3) 1992 (4) 1986
 - Answer (3)

127. In gene gun method used to introduce alien DNA into host cells, microparticles of _____ metal are used.

(2)

(2)

(4)

- (1) Silver
- (3) Zinc
- Answer (4)

(4) Tungsten or gold

Osmosis

Passive Transport

Copper

- 128. Movement and accumulation of ions across a membrane against their concentration gradient can be explained by
 - (1) Active Transport
 - (3) Facilitated Diffusion
 - Answer (1)
- 129. Axile placentation is observed in
 - (1) China rose, Petunia and Lemon
 - (2) Mustard, Cucumber and Primrose
 - (3) China rose, Beans and Lupin
 - (4) Tomato, Dianthus and Pea

Answer (1)

- 130. Identify the **correct** statements:
 - A. Detrivores perform fragmentation.
 - B. The humus is further degraded by some microbes during mineralization.
 - C. Water soluble inorganic nutrients go down into the soil and get precipitated by a process called leaching.
 - D. The detritus food chain begins with living organisms.
 - E. Earthworms break down detritus into smaller particles by a process called catabolism.

Choose the **correct** answer from the options given below:

- (1) D, E, A only
- (2) A, B, C only
- (3) B, C, D only
- (4) C, D, E only

Answer (2)





131. Among eukaryotes, replication of DNA takes place in :

- (1) G₂ phase
- (3) S phase

- (2) M phase
- (4) G₁ phase

Answer (3)

132. Given below are two statements :

Statement I : Endarch and exarch are the terms often used for describing the position of secondary xylem in the plant body.

Statement II : Exarch condition is the most common feature of the root system.

In the light of the above statements, choose the **correct** answer from the options given below:

- (1) Statement I is incorrect but Statement II is true
- (2) Both **Statement I** and **Statement II** are true
- (3) Both Statement I and Statement II are false
- (4) Statement I is correct but Statement II is false

Answer (1)

- 133. The phenomenon of pleiotropism refers to
 - (1) More than two genes affecting a single character
 - (2) Presence of several alleles of a single gene controlling a single crossover
 - (3) Presence of two alleles, each of the two genes controlling a single trait
 - (4) A single gene affecting multiple phenotypic expression

Answer (4)

- 134. Identify the pair of heterosporous pteridophytes among the following :
 - (1) Equisetum and Salvinia
 - (3) Selaginella and Salvinia

- (2) Lycopodium and Selaginella
- (4) Psilotum and Salvinia

Answer (3)

135. Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R : Assertion A : Late wood has fewer xylary elements with narrow vessels.

Reason R : Cambium is less active in winters.

In the light of the above statements, choose the correct answer from the options given below :

- (1) A is false but R is true
- (2) Both A and R are true and R is the correct explanation of A
- (3) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
- (4) **A** is true but **R** is false

Answer (2)

SECTION-B

- 136. Identify the **correct** statements:
 - A. Lenticels are the lens-shaped openings permitting the exchange of gases.
 - B. Bark formed early in the season is called hard bark.
 - C. Bark is a technical term that refers to all tissues exterior to vascular cambium.
 - D. Bark refers to periderm and secondary phloem.
 - E. Phellogen is single-layered in thickness.

Choose the correct answer from the options given below:

- (1) B and C only
- (3) A and D only

- (2) B, C and E only
- (4) A, B and D only



137. Match List I with List II :

List I

- A. M Phase
- B. G₂ Phase
- C. Quiescent stage
- D. G₁ Phase

List II

- I. Proteins are synthesized
- II. Inactive phase
- III. Interval between mitosis and initiation of DNA replication
- IV. Equational division

Choose the correct answer from the options given below :

- (1) A-II, B-IV, C-I, D-III
- (2) A-III, B-II, C-IV, D-I
- (3) A-IV, B-II, C-I, D-III
- (4) A-IV, B-I, C-II, D-III

Answer (4)

138. Given below are two statements : One labelled as Assertion A and the other labelled as Reason R : Assertion A : In gymnosperms the pollen grains are released from the microsporangium and carried by air currents.

Reason R : Air currents carry the pollen grains to the mouth of the archegonia where the male gametes are discharged and pollen tube is not formed.

In the light of the above statements, choose the correct answer from the options given below :

- (1) A is false but R is true
- (2) Both A and R are true and R is the correct explanation of A
- (3) Both A and R are true but R is NOT the current explanation of A
- (4) **A** is true but **R** is false

Answer (4)

139. Match List I with List II: List I

List II

- A. Iron I. Synthesis of auxin
- B. Zinc II. Component of nitrate reductase
- C. Boron III. Activator of catalase
- D. Molybdenum IV. Cell elongation and differentiation

Choose the correct answer from the options given below:

- (1) A-II, B-IV, C-I, D-III (2) A-III, B-II, C-I, D-IV
- (3) A-II, B-III, C-IV, D-I (4) A-III, B-I, C-IV, D-II

Answer (4)

- 140. Which of the following combinations is required for chemiosmosis?
 - (1) Proton pump, electron gradient, NADP synthase
 - (2) Membrane, proton pump, proton gradient, ATP synthase
 - (3) Membrane, proton pump, proton gradient, NADP synthase
 - (4) Proton pump, electron gradient, ATP synthase

Answer (2)



- 141. Main steps in the formation of Recombinant DNA are given below. Arrange these steps in a correct sequence.
 - A. Insertion of recombinant DNA into the host cell
 - B. Cutting of DNA at specific location by restriction enzyme
 - C. Isolation of desired DNA fragment
 - D. Amplification of gene of interest using PCR

Choose the correct answer from the options given below :

- (1) B, D, A, C (2) B, C, D, A
- (3) C, A, B, D (4) C, B, D, A

Answer (2)

- 142. Which one of the following statements is **NOT** correct?
 - (1) The amount of some toxic substances of industrial waste water increases in the organisms at successive trophic levels
 - (2) The micro-organisms involved in biodegradation of organic matter in a sewage polluted water body consume a lot of oxygen causing the death of aquatic organisms
 - (3) Algal blooms caused by excess of organic matter in water improve water quality and promote fisheries
 - (4) Water hyacinth grows abundantly in eutrophic water bodies and leads to an imbalance in the ecosystem dynamics of the water body

Answer (3)

- 143. Which of the following statements are correct about Klinefelter's Syndrome?
 - A. This disorder was first described by Langdon Down (1866).
 - B. Such an individual has overall masculine development. However, the feminine development is also expressed.
 - C. The affected individual is short statured.
 - D. Physical, psychomotor and mental development is retarded.
 - E. Such individuals are sterile.

Choose the correct answer from the options given below:

(1) A and E only
(2) A and B only
(3) C and D only
(4) B and E only

Answer (4)

144. Match List I with List II :

| | List I (Interaction) | List II (Species A and B) |
|--|-------------------------|------------------------------|
| Α. | Mutualism | I. +(A), 0(B) |
| В. | Commensalism | II. –(A), 0(B) |
| C. | Amensalism | III. +(A), –(B) |
| D. | Parasitism | IV. +(A), +(B) |
| Choose the correct answer from the options given below: | | |
| (1) | A-III, B-I, C-IV, D-II | (2) A-IV, B-II, C-I, D-III |
| (3) | A-IV, B-I, C-II, D-III | (4) A-IV, B-III, C-I, D-II |



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| 145. | Given below are two statements : One is labelle | ed as Assertion A and the other is labelled as Reason R : | | |
| | Assertion A : A flower is defined as modified shoot wherein the shoot apical meristem changes to flora | | | |
| | meristem. | deneed to produce different floral appendages laterally a | | |
| | successive node instead of leaves. | densed to produce different floral appendages laterally a | | |
| | In the light of the above statements, choose the correct answer from the options given below : | | | |
| | (1) A is false but R is true | | | |
| | (2) Both A and R are true and R is the correct explanation of A | | | |
| | (3) Both A and R are true but R is NOT the co (4) A is true but R is false | rrect explanation of A | | |
| | Answer (2) | | | |
| 146. | How many different proteins does the ribosome | consist of? | | |
| 140. | (1) 20 | (2) 80 | | |
| | (3) 60 | (4) 40 | | |
| | Answer (2) | | | |
| 147. | Match List I with List II : | | | |
| | List I | List II | | |
| | A. Cohesion B. Adhesion | I. More attraction in liquid phase II. Mutual attraction among water molecules | | |
| | C. Surface tension | III. Water loss in liquid phase | | |
| | D. Guttation | IV. Attraction towards polar surfaces | | |
| | Choose the correct answer from the options given below : | | | |
| | (1) A – II, B – I, C – IV, D – III | (2) $A - II, B - IV, C - I, D - III$ | | |
| | (3) $A - IV, B - III, C - II, D - I$ | (4) A - III, B - I, C - IV, D - II | | |
| | Answer (2) | | | |
| 148. | Match List I with List II : | List II | | |
| | A. Oxidative decarboxylation | I. Citrate synthase | | |
| | B. Glycolysis | II. Pyruvate dehydrogenase | | |
| | C. Oxidative phosphorylation | III. Electron transport system | | |
| | D. Tricarboxylic acid cycle | IV. EMP pathway | | |
| | Choose the correct answer from the options give | | | |
| | (1) $A - II, B - IV, C - III, D - I$ (3) $A - II, B - IV, C - I, D - III$ | (2) $A - III, B - IV, C - II, D - I$ (4) $A - III, B - I, C - II, D - IV$ | | |
| | Answer (1) | (-1) (-1) (-1) (-1) (-1) | | |
| 49. | Melonate inhibits the growth of pathogenic bacteria by inhibiting the activity of | | | |
| | (1) Dinitrogenase | (2) Succinic dehydrogenase | | |
| | (3) Amylase | (4) Lipase | | |
| | Answer (2) | | | |
| 50. | Given below are two statements: | | | |
| | • | Principle' states that two closely related species competin efinitely and competitively inferior one will be eliminate | | |
| | - | adversely affected by competition than herbivores. | | |
| | In the light of the above statements, choose the | · · · | | |
| | (1) Statement Lie incorrect but Statement II is | e true | | |

- (1) **Statement I** is incorrect but **Statement II** is true.
- (2) Both Statement I and Statement II are true.
- (3) Both Statement I and Statement II are false.
- (4) Statement I is correct Statement II is false.
- Answer (4)

ZOOLOGY

SECTION-A

Ι.

151. Match List I with List II.

List I

- A. Gene 'a'
- B. Gene 'y'
- C. Gene 'i'
- D. Gene 'z'

Choose the correct answer from the options given below:

- (1) A-III, B-I, C-IV, D-II
- (2) A-II, B-I, C-IV, D-III
- (3) A-II, B-III, C-IV, D-I
- (4) A-III, B-IV, C-I, D-II
- Answer (3)
- 152. Given below are two statements:

Statement I: Ligaments are dense irregular tissue.

Statement II: Cartilage is dense regular tissue.

In the light of the above statements, choose the **correct** answer from the options given below:

- (1) Statement I is false but Statement II is true
- (2) Both Statement I and Statement II are true
- (3) Both Statement I and Statement II are false
- (4) Statement I is true but Statement II is false

Answer (3)

153. Given below are two statements: one is labelled as **Assertion A** and other is labelled as **Reason R**.

Assertion A : Amniocentesis for sex determination is one of the strategies of Reproductive and Child Health Care Programme.

Reason R : Ban on amniocentesis checks increasing menace of female foeticide.

In the light of the above statements, choose the correct answer from the options given below.

- (1) **A** is false but **R** is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true and R is NOT the correct explanation of A.
- (4) **A** is true but **R** is false.

Answer (1)

List II

II. Transacetylase

β-galactosidase

- III. Permease
- IV. Repressor protein



154. Match List I with List II.

List I (Type of Joint)

- A. Cartilaginous Joint
- B. Ball and Socket Joint
- C. Fibrous Joint
- D. Saddle Joint

List II (Found between)

- I. Between flat skull bones
- II. Between adjacent vertebrae in vertebral column
- III. Between carpal and metacarpal of thumb
- IV. Between Humerus and Pectoral girdle

Choose the correct answer from the options given below:

- (1) A-II, B-IV, C-III, D-I
- (2) A-III, B-I, C-II, D-IV
- (3) A-II, B-IV, C-I, D-III
- (4) A-I, B-IV, C-III, D-II

Answer (3)

155. Given below are two statements:

Statement I: Vas deferens receives a duct from seminal vesicle and opens into urethra as the ejaculatory duct.

Statement II: The cavity of the cervix is called cervical canal which along with vagina forms birth canal.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is incorrect but Statement II is true.
- (2) Both Statement I and Statement II are true.
- (3) Both Statement I and Statement II are false.
- (4) Statement I is correct but Statement II is false.

Answer (2)

- 156. Which one of the following techniques does not serve the purpose of early diagnosis of a disease for its early treatment?
 - (1) Enzyme Linked Immuno-Sorbent Assay (ELISA) technique
 - (2) Recombinant DNA Technology
 - (3) Serum and Urine analysis
 - (4) Polymerase Chain Reaction (PCR) technique

Answer (3)

- 157. Which one of the following common sexually transmitted diseases is completely curable when detected early and treated properly?
 - (1) HIV Infection
 - (3) Gonorrhoea

- (2) Genital herpes
- (4) Hepatitis-B

Answer (3)

- 158. Which of the following is not a cloning vector?
 - (1) Probe (2) BAC
 - (3) YAC (4) pBR322

Answer (1)

159. Match List I with List II.

| | List I | | List II |
|----|--------|-----|---------|
| A. | CCK | I. | Kidney |
| В. | GIP | II. | Heart |

- C. ANF III. Gastric gland
- D. ADH IV. Pancreas

Choose the $\ensuremath{\textbf{correct}}$ answer from the options given below :

- (1) A-IV, B-II, C-III, D-I
- (2) A-IV, B-III, C-II, D-I
- (3) A-III, B-II, C-IV, D-I
- (4) A-II, B-IV, C-I, D-III

Answer (2)

- 160. Which of the following are NOT considered as the part of endomembrane system?
 - A. Mitochondria
 - B. Endoplasmic reticulum
 - C. Chloroplasts
 - D. Golgi complex
 - E. Peroxisomes

Choose the most appropriate answer from the options given below:

- (1) A, D and E only (2) B and D only
- (3) A, C and E only (4) A and D only
- Answer (3)
- 161. Match List I with List II.
 - List I
 - A. Taenia
 - B. Paramoecium
 - C. Periplaneta
 - D. Pheretima IV. Urecose gland

Choose the **correct** answer from the options given below:

- (1) A-II, B-I, C-IV, D-III
 (2) A-I, B-II, C-III, D-IV
 (3) A-I, B-II, C-IV, D-III
 (4) A-III, B-II, C-IV, D-I
- Answer (4)

162. Once the undigested and unabsorbed substances enter the caecum, their backflow is prevented by

List II

Nephridia

Flame cells

Contractile vacuole

Ι.

II.

III.

- (1) Pyloric sphincter
- (2) Sphincter of Oddi
- (3) Ileo-caecal valve
- (4) Gastro-oesophageal sphincter

163. Match List I with List II with respect to human eye.

List I

- A. Fovea
- B. Iris
- C. Blind spot
- D. Sclera

List II

List II

Ι.

11.

Competition

Brood parasitism

Commensalism

(Name of interaction)

- I. Visible coloured portion of eye that regulates diameter of pupil.
- II. External layer of eye formed of dense connective tissue.
- III. Point of greatest visual acuity or resolution.
- IV. Point where optic nerve leaves the eyeball and photoreceptor cells are absent.

Choose the correct answer from the options given below:

- (1) A-II, B-I, C-III, D-IV
- (2) A-III, B-I, C-IV, D-II
- (3) A-IV, B-III, C-II, D-I
- (4) A-I, B-IV, C-III, D-II

Answer (2)

164. Match List I with List II.

List I

(Interacting species)

- A. A Leopard and a Lion in a forest/grassland
- B. A Cuckoo laying egg in a Crow's nest
- C. Fungi and root of a higher plant in Mycorrhizae III. Mutualism
- D. A cattle egret and a Cattle in a field V.

Choose the **correct** answer from the options given below.

- (1) A-II, B-III, C-I, D-IV
- (2) A-I, B-II, C-III, D-IV
- (3) A-I, B-II, C-IV, D-III
- (4) A-III, B-IV, C-I, D-II

Answer (2)

- 165. Which of the following statements are correct regarding female reproductive cycle?
 - A. In non-primate mammals cyclical changes during reproduction are called oestrus cycle.
 - B. First menstrual cycle begins at puberty and is called menopause.
 - C. Lack of menstruation may be indicative of pregnancy.
 - D. Cyclic menstruation extends between menarche and menopause.

Choose the most appropriate answer from the options given below.

(1) A, C and D only

- (2) A and D only
- (3) A and B only (4) A, B and C only

Answer (1)

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| 166. | Given below are two statements : | |
| | Statement I : Low temperature preserves the | enzyme in a temporarily inactive state whereas high |
| | temperature destroys enzymatic activity because | proteins are denatured by heat. |
| | • | es the substrate in its molecular structure and inhibits the |
| | activity of the enzyme, it is known as competitive i | |
| | In the light of the above statements, choose the co | |
| | (1) Statement I is false but Statement II is true. | |
| | (3) Both Statement I and Statement II are false.Answer (2) | . (4) Statement I is true but Statement II is false. |
| 167 | Radial symmetry is NOT found in adults of phylum | |
| 167. | (1) Echinodermata | (2) Ctenophora |
| | (3) Hemichordata | (4) Coelenterata |
| | Answer (3) | |
| 168. | Match List I with List II. | |
| 100. | List I | List II |
| | A. Vasectomy | I. Oral method |
| | B. Coitus interruptus | II. Barrier method |
| | C. Cervical caps | III. Surgical method |
| | D. Saheli | IV. Natural method |
| | Choose the correct answer from the options giver | n below: |
| | (1) A-IV, B-II, C-I, D-III | |
| | (2) A-III, B-I, C-IV, D-II | |
| | (3) A-III, B-IV, C-II, D-I | |
| | (4) A-II, B-III, C-I, D-IV | |
| | Answer (3) | B |
| 169. | Match List I with List II | 2 |
| | List I | List II |
| | | (Secretion) |
| | I | I. Mucus |
| | | II. Bile juice |
| | , | III. Proenzyme pepsinogen |
| | I | IV. HCl and intrinsic factor for absorption of vitamin B ₁₂ |
| | Choose the correct answer from the options given (1) A-II, B-IV, C-I, D-III | (2) A-IV, B-III, C-II, D-I |
| | (1) A-II, B-IV, C-II, D-III (3) A-II, B-I, C-III, D-IV | (2) A-IV, B-III, C-IV, D-II (4) A-III, B-I, C-IV, D-II |
| | Answer (4) | |
| 170 | In which blood corpuscles, the HIV undergoes rep | lication and produces progeny viruses? |
| 170. | (1) Eosinophils | (2) T _H cells |
| | (3) B-lymphocytes | (4) Basophils |
| | Answer (2) | |
| 171. | Vital capacity of lung is | |
| ., | (1) IRV + ERV + TV | (2) IRV + ERV |
| | (3) IRV + ERV + TV + RV | (4) $IRV + ERV + TV - RV$ |
| | Answer (1) | |
| | | |

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| 172. Given below are two statements: | |
|--------------------------------------|--|
|--------------------------------------|--|

Statement I: A protein is imagined as a line, the left end represented by first amino acid (C-terminal) and the right end represented by last amino acid (N-terminal).

Statement II: Adult human haemoglobin, consists of 4 subunits (two subunits of α type and two subunits of β type.)

In the light of the above statements, choose the **correct** answer from the options given below:

- (1) Statement I is false but Statement II is true.
- Both Statement I and Statement II are true (2)

(3) Both Statement I and Statement II are false. (4) Statement I is true but Statement II is false. Answer (1)

173. Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A: Endometrium is necessary for implantation of blastocyst.

Reason R: In the absence of fertilization, the corpus luteum degenerates that causes disintegration of endometrium.

In the light of the above statements, choose the **correct** answer from the options given below:

- (1) **A** is false but **R** is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is NOT the correct explanation of A.
- (4) **A** is true but **R** is false.

Answer (3)

- 174. Select the correct group/set of Australian Marsupials exhibiting adaptive radiation.
 - (1) Lemur, Anteater, Wolf

(2) Tasmanian wolf, Bobcat, Marsupial mole (4) Mole, Flying squirrel, Tasmanian tiger cat

Effect on cardiovascular system

Interfere with transport of dopamine

Slow down body function

List II

Painkiller

(2) A-II, B-I, C-IV, D-III

(4) A-IV, B-III, C-II, D-I

II.

III.

IV.

- (3) Numbat, Spotted cuscus, Flying phalanger
- Answer (3)
- 175. Match List I with List II.

List I

- A. Heroin
- Marijuana В.
- C. Cocaine
- D. Morphine
- Choose the correct answer from the options given below:
- (1) A-III, B-IV, C-I, D-II
- (3) A-I, B-II, C-III, D-IV

Answer (2)

176. Match List I with List II.

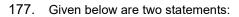
List I

- List II
- A. Ringworm Ι. Haemophilus influenzae
- B. Filariasis Trichophyton П.
- C. Malaria Wuchereria bancrofti III.
- D. Pneumonia IV. Plasmodium vivax

Choose the **correct** answer from the options given below:

- (1) A-III, B-II, C-IV, D-I (2) A-II, B-III, C-IV, D-I
- (3) A-II, B-III, C-I, D-IV (4) A-III, B-II, C-I, D-IV





Statement I: Electrostatic precipitator is most widely used in thermal power plant

.Statement II : Electrostatic precipitator in thermal power plant removes ionising radiations

In the light of the above statements, choose the *most appropriate* answer from the options given below:

- (1) Statement I is incorrect but Statement II is correct.
- (2) Both Statement I and Statement II are correct.
- (3) Both Statement I and Statement II are incorrect.
- (4) Statement I is correct but Statement II is incorrect.

Answer (4)

178. Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A: Nephrons are of two types: Cortical & Juxta medullary, based on their relative position in cortex and medulla.

Reason R: Juxta medullary nephrons have short loop of Henle whereas, cortical nephrons have longer loop of Henle.

In the light of the above statements, choose the **correct** answer from the options given below:

- (1) **A** is false but **R** is true.
- (2) Both A and R are true and R is the correct explanation of A.
- (3) Both A and R are true but R is NOT the correct explanation of A.
- (4) **A** is true but **R** is false.

Answer (4)

- 179. Which of the following functions is carried out by cytoskeleton in a cell?
 - (1) Transportation
 - (3) Protein synthesis

(4) Motility

Nuclear division

(2)

Answer (4)

- 180. Broad palm with single palm crease is visible in a person suffering from-
 - (1) Thalassemia
 - (2) Down's syndrome
 - (3) Turner's syndrome
 - (4) Klinefelter's syndrome

Answer (2)

181. Given below are two statements:

Statement I: In prokaryotes, the positively charged DNA is held with some negatively charged proteins in a region called nucleoid.

Statement II: In eukaryotes, the negatively charged DNA is wrapped around the positively charged histone octamer to form nucleosome.

In the light of the above statements, choose the **correct** answer from the options given below:

- (1) Statement I is incorrect but Statement II is true. (2) Both Statement I and Statement II are true.
- (3) Both Statement I and Statement II are false. (4) Statement I is correct but Statement II is false.Answer (1)



182. Match List I with List II.

| List I | | List II |
|----------------|------|------------------------------|
| A. P-wave | I. | Beginning of systole |
| B. Q-wave | II. | Repolarisation of ventricles |
| C. QRS complex | III. | Depolarisation of atria |
| D. T-wave | IV. | Depolarisation of ventricles |

Choose the correct answer from the options given below :

- (1) A-I, B-II, C-III, D-IV
- (2) A-III, B-I, C-IV, D-II
- (3) A-IV, B-III, C-II, D-I
- (4) A-II, B-IV, C-I, D-III

Answer (2)

- 183. Which of the follwoing statements is correct?
 - (1) Algal Bloom decreases fish mortality
 - (2) Eutrophication refers to increase in domestic sewage and waste water in lakes.
 - (3) Biomagnification refers to increase in concentration of the toxicant at successive trophic levels.
 - (4) Presence of large amount of nutrients in water restricts 'Algal Bloom'

Answer (3)

184. Given below are two statements:

Statement I: RNA mutates at a faster rate.

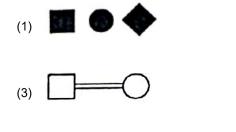
Statement II: Viruses having RNA genome and shorter life span mutate and evolve faster.

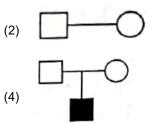
In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is false but Statement II is true.
- (2) Both Statement I and Statement II are true.
- (3) Both Statement I and Statement II are false.
- (4) Statement I is true but Statement II is false.

Answer (2)

185. Which one of the following symbols represents mating between relatives in human pedigree analysis?





Answer (3)

| NEET | 「 (UG)-2023 (Code-G6) | Aakash *oows | |
|------|---|---|--|
| | | SECTION-B | |
| 186. | b. The parts of human brain that helps in regulation of sexual behaviour, expression of excitement, pleasure rage, fear etc. are: | | |
| | (1) Corpus callosum and thalamus | | |
| | (2) Limbic system and hypothalamus | | |
| | (3) Corpora quadrigemina and hippocampus | | |
| | (4) Brain stem and epithalamus | | |
| | Answer (2) | | |
| 187. | Match List I with List II. | | |
| | List I | List II | |
| | A. Logistic growth | I. Unlimited resource availability condition | |
| | B. Exponential growth | II. Limited resource availability condition | |
| | C. Expanding age pyramid | III. The percent individuals of pre-reproductive age is largest followed by reproductive and post reproductive age groups | |
| | D. Stable age pyramid | IV. The percent individuals of pre-reproductives and reproductive age group are same | |
| | Choose the correct answer from the | options given below: | |
| | (1) A-II, B-IV, C-III, D-I | (2) A-II, B-I, C-III, D-IV | |
| | (3) A-II, B-III, C-I, D-IV | (4) A-II, B-IV, C-I, D-III | |
| | Answer (2) | | |
| 188. | A. An excessive loss of body fluid from the body switches off osmoreceptors. | | |
| | | | |
| | B. ADH facilitates water reabsorption to prevent diuresis. | | |
| | C. ANF causes vasodilation. | | |
| | D. ADH causes increase in blood pressure. | | |
| | ADH is responsible for decrease in GFR. Choose the correct answer from the options given below: | | |
| | (1) C, D and E only | (2) A and B only | |
| | (3) B, C and D only | (2) A and B only (4) A, B and E only | |
| | Answer (3) | | |
| 189. | | | |
| 100. | A. Presence of a mid-dorsal, solid a | | |
| | B. Presence of closed circulatory s | | |
| | C. Presence of paired pharyngeal g | - | |
| | D. Presence of dorsal heart | - | |
| | E. Triploblastic pseudocoelomate a | animals. | |
| | Choose the correct answer from the | options given below: | |
| | (1) C, D and E only | (2) A, C and D only | |
| | (3) B and C only | (4) B, D and E only | |
| | Answer (3) | | |

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- 190. Which of the following is characteristic feature of cockroach regarding sexual dimorphism?
 - (1) Presence of anal cerci
 - (2) Dark brown body colour and anal cerci
 - (3) Presence of anal styles
 - (4) Presence of sclerites

Answer (3)

191. Given below are two statements:

Statement I: During G₀ phase of cell cycle, the cell is metabolically inactive.

Statement II : The centrosome undergoes duplication during S phase of interphase.

In the light of the above statements, choose the **most appropriate** answer from the options given below:

- (1) Statement I is incorrect but Statement II is correct.
- (2) Both Statement I and Statement II are correct
- (3) Both Statement I and Statement II are incorrect.
- (4) Statement I is correct but Statement II is incorrect.

Answer (1)

- 192. Which of the following are NOT under the control of thyroid hormone?
 - A. Maintenance of water and electrolyte balance
 - B. Regulation of basal metabolic rate
 - C. Normal rhythm of sleep-wake cycle
 - D. Development of immune system
 - E. Support the process of RBCs formation

Choose the correct answer from the options given below:

- (1) D and E only
- (2) A and D only
- (3) B and C only
- (4) C and D only

Answer (4)

193. Which one of the following is the sequence on corresponding coding strand, if the sequence on mRNA formed is as follows 5'AUCGAUCGAUCGAUCGAUCGAUCGAUCG AUCG 3'?

- (1) 3' ATCGATCGATCGATCGATCGATCGATCG 5'
- (2) 5' UAGCUAGCUAGCUAGCUAGCUAGCUAGC 3'
- (3) 3' UAGCUAGCUAGCUAGCUAGCUAGCUAGC 5'
- (4) 5' ATCGATCGATCGATCGATCGATCGATCG 3'

Answer (4)

- 194. The unique mammalian characteristics are:
 - (1) pinna, monocondylic skull and mammary glands
 - (2) hairs, tympanic membrane and mammary glands
 - (3) hairs, pinna and mammary glands
 - (4) hairs, pinna and indirect development



- 195. Which one of the following is NOT an advantage of inbreeding?
 - (1) It decreases the productivity of inbred population, after continuous inbreeding.
 - (2) It decreases homozygosity.
 - (3) It exposes harmful recessive genes but are eliminated by selection.
 - (4) Elimination of less desirable genes and accumulation of superior genes takes place due to it.

Answer (1)

- 196. Which of the following statements are correct?
 - A. Basophils are most abundant cells of the total WBCs
 - B. Basophils secrete histamine, serotonin and heparin
 - C. Basophils are involved in inflammatory response
 - D. Basophils have kidney shaped nucleus
 - E. Basophils are agranulocytes

Choose the **correct** answer from the options given below:

- (1) A and B only
- (2) D and E only
- (3) C and E only
- (4) B and C only

Answer (4)

- 197. Select the correct statements.
 - A. Tetrad formation is seen during Leptotene.
 - B. During Anaphase, the centromeres split and chromatids separate.
 - C. Terminalization takes place during Pachytene.
 - D. Nucleolus, Golgi complex and ER are reformed during Telophase.
 - E. Crossing over takes place between sister chromatids of homologous chromosome.

Choose the correct answer from the options given below:

- (1) B and E only
- (3) B and D only

(2) A and C only(4) A, C and E only

- Answer (3)
- 198. In cockroach, excretion is brought about by-
 - A. Phallic gland
 - B. Urecose gland
 - C. Nephrocytes
 - D. Fat body
 - E. Collaterial glands

Choose the correct answer from the options given below :

- (1) B and D only
- (2) A and E only
- (3) A, B and E only
- (4) B, C and D only

Answer (4)



199. Match List I with List II.

List I

- Α. Mast cells
- Inner surface of bronchiole Β.
- C. Blood
- Tubular parts of nephron D.
- (1) A-III, B-IV, C-II, D-I
- (3) A-II, B-III, C-I, D-IV (4) A-II, B-I, C-IV, D-III

Choose the **correct** answer from the options give below:

Answer (4)

- 200. Which of the following statements are correct regarding skeletal muscle?
 - Muscle bundles are held together by collagenous connective tissue layer called fascicle. Α.
 - Sarcoplasmic reticulum of muscle fibre is a store house of calcium ions. Β.
 - C. Striated appearance of skeletal muscle fibre is due to distribution pattern of actin and myosin proteins.

B

List II

Ciliated epithelium

Cuboidal epithelium

(2) A-I, B-II, C-IV, D-III

Areolar connective tissue

Specialised connective tissue

I.

II.

III.

IV.

- M line is considered as functional unit of contraction called sarcomere. D.
- Choose the most appropriate answer from the options given below:
- (1) C and D only
- (3) B and C only
- Answer (3)

(4) A, C and D only

(2) A, B and C only