

DATE : 03/05/2026

Test Booklet Code



**13**

**KAILASH**

Corporate Office : 3rd Floor, Incuspaze Campus-2, Plot No. 13,  
Sector-18, Udyog Vihar, Gurugram, Haryana - 122015.

# Questions & Answers for NEET (UG)-2026

Time : 3 hrs.

M.M. : 720

## Important Instructions:

1. The test is of **3 hours** duration and the Test Booklet contains **180** multiple choice questions (Four options with a single correct answer) from **Physics, Chemistry and Biology (Botany and Zoology)**.
2. Each question carries **4 marks**. For each correct response, the candidate will get **4 marks**. For every wrong response, **1 mark** shall be deducted from the total scores. The maximum marks are **720**.
3. Use **Blue / Black Ball Point Pen only** for writing particulars on this page / marking responses on Answer Sheet.
4. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
5. On completion of the test, the candidate must handover the Answer Sheet to the Invigilator before leaving the Room / Hall. The candidates are allowed to take away this Test Booklet with them.
6. The CODE for this Booklet is **13**.
7. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified space in the Test Booklet/Answer Sheet. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
8. Each candidate must show on demand his/her Admission Card to the Invigilator.
9. No candidate, without special permission of the Centre Superintendent or Invigilator, would leave his/her seat.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of this examination.
12. No part of the **Test Booklet** and **Answer Sheet** shall be detached under any circumstances.
13. The candidates will write the Correct Test Booklet Code as given in the Test Booklet / Answer Sheet in the Attendance Sheet.

## BIOLOGY

91. Match List I with List II:

	List-I		List-II
A.	Genetically modified organism	(I)	<i>Agrobacterium tumefaciens</i>
B.	Thermostable DNA polymerase	(II)	Bt cotton
C.	Ti plasmid	(III)	<i>Thermus aquaticus</i>
D.	pBR322	(IV)	<i>Escherichia coli</i>

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

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

**Answer (2)**

92. Exploring molecular, genetic and species-level diversity for products of economic importance is called

- (1) Bioprospecting
- (2) Biofortification
- (3) Biomagnification
- (4) Bioremediation

**Answer (1)**

93. Which of the following statements are true with reference to the sex-determination in honeybees?

- A. An offspring formed from the union of a sperm and an egg, develops as a female (queen or worker).
- B. An unfertilized egg develops as a male by parthenogenesis.
- C. A male has half the number of chromosomes than that of a female.
- D. Males produce sperms by meiosis.
- E. Honeybees have a haplodiploid sex-determination system.

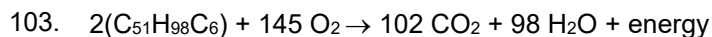
Choose the **correct** answer from the options given below :

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

**Answer (1)**







The Respiratory Quotient (RQ) of a biomolecule used for respiration, as per the above equation would be :

- (1) Less than 0.5 (2) Between 1.25 and 2  
(3) 1.0 (4) Between 0.5 and 0.95

**Answer (4)**

104. Which one of the following is **not** a characteristic of plant cells in the phase of elongation?

- (1) New cell wall deposition (2) Cell enlargement  
(3) Large conspicuous nuclei (4) Increased vacuolation

**Answer (3)**

105. Arrange the following steps of somatic hybridisation in a correct sequence.

- A. Digestion of cell walls.  
B. Isolation of naked protoplasts.  
C. Fusion of protoplasts to get hybrid protoplast.  
D. Isolation of single cells from two different varieties of plants.  
E. Growing of hybrid protoplast to form a new plant.

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

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

**Answer (4)**

106. Match List-I with List-II :

	List-I		List-II
A.	Conjunctive tissue	I.	Specialised cells in the vicinity of guard cells
B.	Casparian strips	II.	Endodermal cells rich in starch
C.	Subsidiary cells	III.	Tissue between xylem and phloem
D.	Starch sheath	IV.	Endodermal cells with suberin deposition

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

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

**Answer (2)**



112. "The Evil Quartet" of biodiversity loss includes which of the following?
- (1) Over-exploitation; Alien species invasions; Soil pollution; Co-extinctions
  - (2) Habitat loss and fragmentation; Air pollution; Water pollution; Co-extinctions
  - (3) Habitat loss and fragmentation; over-exploitation; Alien species invasions; Co-extinctions
  - (4) Over-exploitation; Alien species invasions; Air pollution; Co-extinctions

**Answer (3)**

113. Arrange the following steps of DNA fingerprinting in a correct sequence.
- A. Isolation of DNA and its digestion by restriction endonucleases.
  - B. Hybridisation using a labelled VNTR probe.
  - C. Transferring of separated DNA fragments to synthetic membranes.
  - D. Detection of hybridised DNA fragments by autoradiography.
  - E. Separation of DNA fragments by electrophoresis.

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

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

**Answer (4)**

114. Which of the following statements are correct with reference to a transcription unit?
- A. A transcription unit in DNA is defined primarily by three regions : promoter, structural gene and terminator.
  - B. The promoter is said to be located towards the 5'-end of the structural gene.
  - C. The promoter is a DNA sequence that provides binding site for RNA polymerase.
  - D. The promoter defines the template and coding strands.
  - E. The terminator is located towards the 3'-end of the coding strand and it defines the end of the process of transcription.

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

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

**Answer (2)**

115. Which one of the following types of pollination brings genetically different types of pollen grains to the stigma?
- |                 |              |
|-----------------|--------------|
| (1) Geitonogamy | (2) Xenogamy |
| (3) Cleistogamy | (4) Autogamy |

**Answer (2)**

116. Which of the following is an *in situ* conservation method?

- (1) Seed Banks
- (2) Sacred Groves
- (3) Botanical Gardens
- (4) Wildlife Safari Parks

**Answer (2)**

117. Heterophyllous development in response to environment is an example of which of the following phenomena?

- |                       |                       |
|-----------------------|-----------------------|
| (1) Redifferentiation | (2) Dedifferentiation |
| (3) Elasticity        | (4) Plasticity        |

**Answer (4)**

118. Match List I with List II :

	List I		List II
A.	Productivity	I.	Gross primary productivity minus respiration losses
B.	Net primary productivity	II.	Rate of formation of new organic matter by consumers
C.	Gross primary productivity	III.	Rate of biomass production
D.	Secondary productivity	IV.	Rate of production of organic matter during photosynthesis

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

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

**Answer (3)**

119. Which of the following statements are correct regarding amino acids?

- A. They are substituted methanes.
- B. Serine is an aromatic amino acid.
- C. Valine is a neutral amino acid.
- D. Lysine is an acidic amino acid.

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

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

**Answer (4)**

120. In which one of the following, the ovules are **not** enclosed by an ovary wall and remain exposed?

- (1) *Pinus*
- (2) *Wolffia*
- (3) *Funaria*
- (4) *Selaginella*

**Answer (1)**

121. Which of the following statements are correct with reference to packaging of DNA helix ?

- A. Histones are organized to form a unit of eight molecules called histone octamer.
- B. Histones are negatively charged basic proteins.
- C. Histones are rich in the basic amino acid residues - lysine and arginine.
- D. The positively charged DNA is wrapped around the histone octamer to form nucleosome.
- E. The packaging of chromatin at higher levels requires an additional set of proteins called non-histone chromosomal proteins.

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

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

**Answer (4)**

122. Match List I with List II :

	<b>List I (Placentation)</b>		<b>List II (Example)</b>
A.	Marginal	I.	Mustard
B.	Axile	II.	Pea
C.	Parietal	III.	Marigold
D.	Basal	IV.	Lemon

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

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

**Answer (1)**

123. Which one of the following is the site for active ribosomal RNA synthesis?

- (1) Nucleolus
- (2) Kinetochore
- (3) Centrosome
- (4) Chromatin

**Answer (1)**

124. The main function of bulliform cells in grasses is :
- (1) to perform photosynthesis.
  - (2) to minimize water loss during water stress.
  - (3) to make the leaf impermeable to fungal spores.
  - (4) to transport water.

**Answer (2)**

125. Which of the following statements are correct?
- A. The Amazon rainforest being cut and cleared for cultivation of soybeans is an example of habitat loss.
  - B. Steller's sea cow and passenger pigeon became extinct due to over-exploitation by humans.
  - C. The Nile perch introduced into Lake Victoria in East Africa helped in population growth of cichlid fish in the lake.
  - D. Water hyacinth is an invasive species.
  - E. When a species becomes extinct, the plant and animal species associated with it are not affected.

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

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

**Answer (1)**

126. Which one of the following statements is **not** true about the universal rules of binomial nomenclature?
- (1) The first word in the biological name represents the specific epithet, while the second component denotes the genus
  - (2) The specific epithet in the biological name starts with a small letter
  - (3) Both the words in a biological name, when handwritten, are separately underlined or printed in italics
  - (4) Biological names are generally in Latin

**Answer (1)**

127. Which one of the following disorders is caused by the substitution of Glutamic acid (Glu) by Valine (Val) at the sixth position of the beta globin chain of the haemoglobin molecule?
- (1) Phenylketonuria
  - (2) Haemophilia
  - (3) Sickle-cell anaemia
  - (4) Thalassemia

**Answer (3)**

128. Find the **incorrect** statement(s) about photosynthesis from the following:
- A. The water splitting complex is associated with PS I.
  - B.  $C_4$  plants use the  $C_3$  pathway of  $CO_2$  fixation as the main biosynthetic pathway.
  - C. In  $C_4$  plants, photorespiration does not occur.
  - D.  $C_3$  plants exhibit 'Kranz' anatomy.
  - E. ATP synthesis in chloroplast occurs through chemiosmosis.

Choose the answer from the options given below:

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

**Answer (4)**

129. Match List I with List II :

	List I		List II
A.	Trypsin	I.	Intercellular ground substance
B.	Morphine	II.	Lectin
C.	Concanavalin A	III.	Enzyme
D.	Collagen	IV.	Alkaloid

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

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

**Answer (1)**

130. Identify the correct statements about biomolecules.

- A. Lipids are generally water soluble.
- B. Proteins are polypeptides.
- C. Polysaccharides are long chains of sugars.
- D. Adenine and guanine are substituted pyrimidines.
- E. Almost all enzymes are proteins.

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

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

**Answer (3)**

131. Match List I with List II :

	List-I		List-II
A.	Incomplete dominance	I.	Human skin colour
B.	Co-dominance	II.	Inheritance of flower colour in <i>Antirrhinum</i> sp.
C.	Pleiotropy	III.	Phenylketonuria disease in humans
D.	Polygenic inheritance	IV.	ABO blood groups

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

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

**Answer (3)**

132. Identify the **correct** sequence of steps in each cycle of Polymerase Chain Reaction :

- (1) Denaturation → Extension → Annealing
- (2) Denaturation → Annealing → Extension
- (3) Annealing → Denaturation → Extension
- (4) Extension → Annealing → Denaturation

**Answer (2)**

133. How many ATP and NADPH molecules are required to make one molecule of glucose through the Calvin pathway?

- (1) 12 ATP and 18 NADPH
- (2) 18 ATP and 12 NADPH
- (3) 6 ATP and 12 NADPH
- (4) 24 ATP and 18 NADPH

**Answer (2)**

134. Match **List-I** with List-II:

	List-I (Process)		List-II (Location)
A.	Glycolysis	I.	Inner mitochondrial membrane
B.	ETS	II.	Mitochondrial matrix
C.	Accumulation of protons	III.	Cytoplasm
D.	Krebs' cycle	IV.	Intermembrane space

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

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

**Answer (4)**

135. Which of the following statements are correct with respect to DNA separation, isolation and visualization?

- A. The cutting of DNA is done by molecular scissors.
- B. The DNA fragments separate according to their size in an agarose gel, upon electrophoresis.
- C. The separated DNA fragments can be seen without staining when exposed to UV light.
- D. The separated DNA fragments, when stained with ethidium bromide, can be seen in visible light.

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

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

**Answer (1)**

136. What is the probability of having children with 'O' blood group, where both mother and father are heterozygous for 'A' and 'B' blood group, respectively?

- (1) 0% (2) 50%  
(3) 25% (4) 75%

**Answer (3)**

137. Match List I with List II:

	List I		List II
A.	Molluscs	I.	Pulmonary respiration only
B.	Reptiles	II.	Branchial respiration
C.	Adult amphibians	III.	Cellular respiration
D	<i>Amoeba</i>	IV	Pulmonary and cutaneous respiration

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

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

**Answer (4)**

138. Insertion of a foreign DNA at BamHI site in an *E. coli* cloning vector pBR322 results in the loss of antibiotic resistance towards:

- (1) Ampicillin and tetracycline  
(2) Ampicillin  
(3) Tetracycline  
(4) Gentamycin

**Answer (3)**

139. What is the reason behind production of large holes in 'Swiss Cheese'?

- (1) The production of large amount of CO<sub>2</sub> and H<sub>2</sub> by *Trichoderma polysporum*  
(2) The production of large amount of CO<sub>2</sub> and H<sub>2</sub> by lactic acid bacteria called *Lactobacillus*  
(3) The production of large amount of CO<sub>2</sub> by *Propionibacterium sharmanii*  
(4) The production of large amount of CO<sub>2</sub> by *Clostridium butylicum*

**Answer (3)**

140. Which of the following is **not** an example of convergent evolution?

- (1) Fore limbs of whales and bats  
(2) Flippers of penguins and dolphins  
(3) Eyes of octopuses and mammals  
(4) Wings of butterflies and birds

**Answer (1)**

141. Non-membrane bound cell organelles found in both prokaryotic and eukaryotic cells are \_\_\_\_\_.
- (1) Lysosomes
  - (2) Centrosomes
  - (3) Mitochondria
  - (4) Ribosomes

**Answer (4)**

142. Ecological pyramids represent the relationship between the organisms at different trophic levels and they are generally inverted for:
- (1) Pyramid of number in grassland
  - (2) Pyramid of energy in pond ecosystem
  - (3) Pyramid of biomass in grassland
  - (4) Pyramid of biomass in sea

**Answer (4)**

143. Arrange the following events occurring in Renin-Angiotensin mechanism in the correct order:
- A. Increase in blood pressure and Glomerular filtration rate
  - B. Reabsorption of  $\text{Na}^+$  and water from distal parts of tubule due to Aldosterone
  - C. Fall in Glomerular filtration rate
  - D. Vasoconstriction by Angiotensin II and release of Aldosterone.
  - E. Renin converts Angiotensinogen into Angiotensin I, followed by Angiotensin II.

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

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

**Answer (4)**

144. Choose the correct statements regarding population interactions between two species.
- A. In both parasitism and commensalism, only one species benefits and the other species is harmed.
  - B. Both species benefit in mutualism.
  - C. Both species benefit in commensalism.
  - D. In parasitism, only one species benefits and the other species is harmed.
  - E. In amensalism, one species is harmed and the other is unaffected.

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

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

**Answer (3)**

145. In which animal do haploid cells divide mitotically to produce gametes?
- (1) Male honeybees (2) Male grasshoppers  
(3) Male earthworms (4) Male frogs

**Answer (1)**

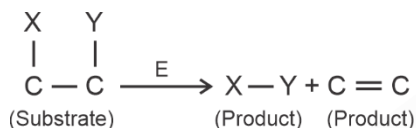
146. In humans, respiration occurs in the following steps. Arrange these steps in the correct order.
- A. Diffusion of O<sub>2</sub> and CO<sub>2</sub> between blood and tissues  
B. Diffusion of O<sub>2</sub> and CO<sub>2</sub> across alveolar membrane  
C. Pulmonary ventilation by which atmospheric air is drawn in and CO<sub>2</sub> rich alveolar air is released out  
D. Cellular respiration  
E. Transport of gases by the blood

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

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

**Answer (3)**

147. The following reaction depicts the activity of a particular class of enzymes :



Identify the enzymes class 'E' from the following options :

- (1) Isomerases (2) Ligases  
(3) Transferases (4) Lyases

**Answer (4)**

148. Match List I with List II:

	List I (Bioactive molecules)		List II (Importance)
A.	Streptokinase	I.	Immunosuppressive agent
B.	Statins	II.	Removal of clots from the blood vessels
C.	Lipases	III.	Blood cholesterol-lowering agent
D.	Cyclosporin A	IV	Detergent formulations

Choose the correct answer from the options given below:

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

**Answer (3)**

149. Which of the following equations depicts Verhulst-Pearl logistic population growth?

$$(1) \frac{dN}{dt} = rN \left( \frac{K - N}{K} \right)$$

$$(2) \frac{dN}{dt} = rN \left( \frac{K}{K - N} \right)$$

$$(3) \frac{dN}{dt} = rN \left( \frac{K - N}{N} \right)$$

$$(4) \frac{dN}{dt} = rN \left( \frac{K + N}{K} \right)$$

**Answer (1)**

150. Arrange the following cell layers/structures around the female gamete, from outer to inner side :

- A. Zona pellucida
- B. Perivitelline space
- C. Corona radiata
- D. Plasma membrane of ovum

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

(1) D, B, A, C

(2) A, C, B, D

(3) C, A, D, B

(4) C, A, B, D

**Answer (4)**

151. Which one of the following is an appropriate example of sexual deceit?

- (1) Sea anemone and clown fish
- (2) *Ophrys* and bumblebee
- (3) Female wasp and fig
- (4) Cuckoo and crow

**Answer (2)**

152. Match List I with List II related to muscular/skeletal system:

	List I		List II
A.	Tetany	(I)	Inflammation of joints
B.	Arthritis	(II)	Autoimmune disorder affecting neuromuscular junction
C.	Myasthenia gravis	(III)	Wild contraction in muscle due to low $Ca^{++}$ in body fluid
D.	Muscular dystrophy	(IV)	Progressive degeneration of skeletal muscle

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

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

**Answer (2)**

153. Select the correct statements regarding cell membrane in eukaryotic cell.
- Membrane of human RBCs has approximately 52% protein.
  - Major phospholipids are arranged in a bilayer.
  - Extensions of the plasma membrane into the cell form mesosomes.
  - Tails towards the inner part of lipids are hydrophobic and thus protected from aqueous medium.
  - Glycocalyx is present on the outer surface of the plasma membrane.

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

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

**Answer (3)**

154. Choose the correct statements regarding cell organelles and their inclusions.
- The endomembrane system includes Golgi complex, endoplasmic reticulum and mitochondria.
  - Rough endoplasmic reticulum bears ribosomes on its surface.
  - Both mitochondria and plastids have circular DNA.
  - A network of microtubules, microfilaments and intermediate filaments present in the cytoplasm is called cytoskeleton.
  - Mitochondrion is a single membrane-bound structure.

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

- A, B and C only
- C, D and E only
- A and B only
- B, C and D only

**Answer (4)**

155. The toxin proteins isolated from *Bacillus thuringiensis*, coded by which of the following genes would control cotton bollworms and corn borer, respectively?
- cryIAc* and *cryIIAb*
  - cryIAc* and *cryIIIB*
  - cryIAc* and *cryIAb*
  - cryIIAb* and *cryIAc*

**Answer (3)**

156. The JGA (Juxta Glomerular Apparatus) is a special sensitive region formed by cellular modifications in \_\_\_\_\_ related to the same nephron.
- Proximal convoluted tubule and efferent renal arteriole
  - Distal convoluted tubule and efferent renal arteriole
  - Distal convoluted tubule and afferent renal arteriole
  - Proximal convoluted tubule and afferent renal arteriole

**Answer (3)**

157. Choose the correct statements regarding frog's anatomy:

- A. Hepatic portal system is the special venous connection between liver and intestine.
- B. There are twelve pairs of cranial nerves arising from the brain.
- C. The ureters and oviducts open separately into the cloaca in female frogs.
- D. Hind-brain consists of cerebellum, medulla oblongata and optic lobes.
- E. Sinus venosus joins the right atrium of heart.

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

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

**Answer (4)**

158. Match List I with List II:

	List-I		List-II
A.	Cortisol	I.	Stimulates the formation of alveoli in mammary glands
B.	Aldosterone	II.	Produces anti-inflammatory reactions
C.	Cholecystokinin	III.	Stimulates reabsorption of Na <sup>+</sup> and water from renal tubule
D.	Progesterone	IV.	Stimulates secretion of pancreatic enzymes and bile juice

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

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

**Answer (1)**

159. The sixth mutant codon of beta globin gene causing polymerization of Haemoglobin and change in RBC shape is \_\_\_\_\_.

- (1) CAG
- (2) AUG
- (3) GUG
- (4) GAG

**Answer (3)**



164. Match List I with List II with respect to chronology of evolution of life forms

	List-I		List-II
A.	About 65 mya	(I)	Jawless fish probably evolved
B.	About 500 mya	(II)	The dinosaurs suddenly disappeared from the earth
C.	About 350 mya	(III)	Seaweeds and few plants probably existed
D.	About 320 mya	(IV)	Invertebrates were formed and became active

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

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

**Answer (3)**

165. Match List I and List II

	List-I		List-II
A.	Progestasert	(I)	Barrier made of rubber used by females
B.	Multiload 375	(II)	Oral contraceptive
C.	Diaphragm	(III)	Hormone releasing IUD
D.	Saheli	(IV)	Copper releasing IUD

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

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

**Answer (4)**

166. The following are the stages of life cycle of *Plasmodium*. Arrange the stages in the proper order.

- A. The parasites reproduce asexually in RBCs, bursting the cells.
- B. The parasites reproduce asexually in liver cells, bursting the cells and releasing into blood.
- C. Gametocytes develop in RBCs.
- D. Sporozoites reach the liver through the blood.
- E. Female mosquito injects sporozoites into humans during bite.

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

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

**Answer (3)**

167. Match **List I** with **List II** related to embryonic development at various months of pregnancy:

	<b>List-I</b>		<b>List-II</b>
A.	The foetus movement starts and hair appears on the head	(I)	24 weeks of pregnancy
B.	The foetus develops limbs and digits	(II)	20 weeks of pregnancy
C.	The foetus develops external genital organs	(III)	8 weeks of pregnancy
D.	The foetus body is covered with fine hair; eyelids separate and eyelashes are formed	(IV)	12 weeks of pregnancy

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

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

**Answer (2)**

168. The flightless bird with forelimbs modified as paddle-like structures suited for swimming is known as:

- (1) *Psittacula*
- (2) *Aptenodytes*
- (3) *Neophron*
- (4) *Struthio*

**Answer (2)**

169. Select the **incorrect** statements from the following:

- A. Digestive system in Platyhelminthes is incomplete.
- B. Bilateral symmetry is a characteristic feature of adult Echinoderms.
- C. Pseudocoelom is possessed by Aschelminthes.
- D. Notochord is persistent throughout life in the class Chondrichthyes.
- E. Members of class Reptilia maintain a constant body temperature.

Choose the answer from the options given below:

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

**Answer (2)**



174. Spermatogonia undergo a series of cell divisions statements to produce sperms. Select the correct from the following :

- A. Spermatogonia always undergo meiotic cell division.
- B. Primary spermatocytes divide mitotically to produce secondary spermatocytes.
- C. Secondary spermatocytes, through their second meiotic division, produce haploid spermatids.
- D. Spermatids produce spermatozoa through mitosis.
- E. Spermatids transform into spermatozoa by spermiogenesis.

Choose the correct answer from the options given below:

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

**Answer (2)**

175. Select the **incorrect** statement with reference to Rh grouping.

- A. Erythroblastosis foetalis is a condition observed having foetus with Rh<sup>-ve</sup> blood and mother with Rh<sup>+ve</sup> blood.
- B. Rh antigen is observed on RBCs in the majority of human beings.
- C. Before blood transfusion, Rh group should also be matched.
- D. Rh incompatibility is observed when a pregnant mother is Rh<sup>-ve</sup> and the foetus is Rh<sup>+ve</sup>.
- E. Erythroblastosis foetalis can be avoided by administering anti-Rh antibodies to the mother immediately after the delivery of the second child.

Choose the answer from the options given below :

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

**Answer (3)**

176. Select the set of fishes which belong to the class Osteichthyes:

- (1) Saw fish, Fighting fish and Dog fish
- (2) Devil fish, Cuttlefish and Hagfish
- (3) Starfish, Hagfish and Cuttlefish
- (4) Flying fish, Angel fish and Fighting fish

**Answer (4)**

177. In a population of a grasshopper species, the chromosome number of some members is 23 and some other members possess 24 chromosomes. The 23 and 24 chromosome-bearing members in this species are \_\_\_\_\_.

- (1) females and males, respectively
- (2) males and females, respectively
- (3) all males
- (4) all females

**Answer (2)**

178. Evolution of human appears parallel to the progressive development of brain and language skills. As such, the evolution of individual species in the sequence of their appearance is:

- (1) *Ramapithecus* → *Homo habilis* → *Homo erectus* → *Neanderthal* → *Homo sapiens*
- (2) *Neanderthal* → *Ramapithecus* → *Homo habilis* → *Homo erectus* → *Homo sapiens*
- (3) *Homo habilis* → *Homo erectus* → *Ramapithecus* → *Neanderthal* → *Homo sapiens*
- (4) *Homo sapiens* → *Ramapithecus* → *Homo habilis* → *Neanderthal* → *Homo erectus*

**Answer (1)**

179. The specific receptors for neurotransmitters in a synapse are present on \_\_\_\_\_.

- (1) Pre-synaptic membrane
- (2) Post-synaptic membrane
- (3) Myelin sheath
- (4) Schwann cell

**Answer (2)**

180. Match List-I with List-II.

	<b>List-I (Respiratory Volume)</b>		<b>List-II (Capacity in mL)</b>
A.	ERV (Expiratory Reserve Volume)	I.	2500 – 3000 mL
B.	RV (Residual Volume)	II.	500 mL
C.	IRV (Inspiratory Reserve Volume)	III.	1000 – 1100 mL
D.	TV (Tidal Volume)	IV.	1100 – 1200 mL

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

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

**Answer (1)**

