Test Booklet Code

English	50

Rank Pro

Re – NEET (UG)- 2026

|| DATE: 21-06-2026 ||

Important Instruction

1. The test is of **3 hours 15 minutes** 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**). All questions are compulsory.

2. Each question carries **4 marks**. For **each correct response**, the candidate will get **4 marks**. **For each incorrect response**, **1 mark will be deducted** from the total scores. The maximum mark is **720**.

3. Use a **Blue/Black** ballpoint Pen only for writing particulars on this page/marking responses on the 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 hand over the Answer Sheet (ORIGINAL and OFFICE Copy)** 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 **50**.

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. The use of white fluid for correction is **NOT** permissible on the Answer Sheet.

8. Each candidate must show on-demand his/her Admit Card to the Invigilator.

9. No candidate, without special permission of the Centre Superintendent or Invigilator, would leave his/her seat.

10. Use of an 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 Room/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.

91. The number of vertebrae in a human is _____.

(1) 7 (2) 12
(3) 26 (4) 206

92. Symbiotic association between fungi and algae are called _____.

(1) lichens (2) sponges
(3) mycorrhiza (4) chrysophytes

93. Cell theory was formulated by _____.

(1) Schleiden and Schwann
(2) Robert Brown
(3) Singer and Nicolson
(4) Antonie Von Leeuwenhoek

94. Which of the following are characteristics of prokaryotic cells?

(a) Ribosomes are made of 50S and 30S subunits
(b) They can have plasmids
(c) They contain mesosome
(d) They have peroxisomes

Choose the correct answer from the options given below:

(1) (b) and (c) only
(2) (a) and (c) only
(3) (a), (c) and (d) only
(4) (a), (b) and (c) only

95. Which of the following is not a part of human central neural system?

(1) Arachnoid (2) Dura mater
(3) Pia mater (4) Pericardium

96. Mitochondrial inner membrane encloses _____.

(1) matrix (2) cytosol
(3) mucus (4) aqueous humor

97. Match List-I with List-II.

	List – I		List – II
A.	Cristae	I.	Flat membrane sacs in stroma of chloroplast
B.	Cisternae	II.	Infoldings in mitochondria
C.	Thylakoids	III.	Cell membrane
D.	Phospholipid	IV.	Disc shaped sacs in the Golgi apparatus

Choose the correct answer from the options given below:

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

98. The plastid that stores xanthophyll is known as _____.

(1) chloroplast (2) chromoplast
(3) aleuroplast (4) amyloplast

99. Which of the following statements related to pituitary gland are correct?

(a) It is divided anatomically into adenohypophysis and neurohypophysis
(b) It secretes follicle stimulating hormone
(c) It secretes melanocyte stimulating hormone
(d) It does not secrete prolactin

Choose the correct answer from the options given below:

(1) (a) and (b) only
(2) (a), (b) and (c) only
(3) (c) and (d) only
(4) (b) and (c) only

100. Photorespiration reaction catalyzed by RuBisCo is shown below:

$$RuBP + O_2 \longrightarrow 3 - Phosphoglycerate + X.$$

Identify "X" from the given options:

(1) Phosphoenolpyruvate
(2) 2-Phosphoglycolate
(3) Oxaloacetate
(4) Malate

101. Mad cow disease is caused by _____.

(1) prions (2) viroids
(3) Aspergillus sp. (4) Mycoplasma sp.

102. Which pigment has absorption peak at 700 nm in the photosynthetic reaction centre PSI (P700)?

(1) Chlorophyll b (2) Chlorophyll a
(3) Xanthophylls (4) Carotenoids

103. In water, frogs respire using _____.

(1) skin (2) buccal cavity
(3) lungs (4) trachea

104. Which of the following represents the correct sequence of arrangement of bones in the lower limb of humans?

(1) Femur-tibia-patella-tarsal
(2) Patella-femur-tibia-tarsal
(3) Femur-patella-tibia-tarsal
(4) Femur-tarsal-patella-tibia

105. Phyllotaxy is the pattern of arrangement of _____.

(1) leaves
(2) flowers
(3) fruits
(4) sepals

106. Match List-I with List-II.

	List – I		List – II
A.	Starch	I.	Fights infection
B.	Antibody	II.	Energy storage
C.	Concanavalin A	III.	Glucose transport
D.	Glut-4	IV.	Lectin

Choose the correct answer from the options given below:

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

107. Given below are two statements:

Statement I: When any plane passing through the central axis of the body divides the organism into two identical halves, it is called radial symmetry.

Statement II: In phylum Echinodermata, both adults and larvae are radially symmetrical.

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

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

108. Endomembrane system includes _____.

(1) endoplasmic reticulum, Golgi complex, lysosomes and vacuole

(2) endoplasmic reticulum, chloroplast, peroxisomes and vacuole

(3) mitochondria, chloroplast, peroxisomes and vacuole

(4) Golgi complex, chloroplast, peroxisomes and vacuole

109. How many molecules of pyruvic acid are produced at the end of glycolysis from 206 molecules of glucose?

(1) 206 (2) 309

(3) 103 (4) 412

110. Which of the following plant growth regulators is used as herbicide?

(1) 2, 4-D (2) Kinetin

(3) Abscisic acid (4) Gibberellin

111. Given below are two statements:

Statement I: In gymnosperms, the male and female gametophytes remain within the sporangia.

Statement II: In gymnosperms, seeds are not covered.

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

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

112. Match List-I with List-II.

	List – I		List – II
A.	Spherical	I.	*Vibrio*
B.	Rod	II.	*Cocci*
C.	Comma	III.	*Spirilla*
D.	Spirillum	IV.	*Bacilli*

Choose the correct answer from the options given below:

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

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

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

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

113. Which of the following are characteristic features of Solanaceae family?

(a) Flowers are bisexual and actinomorphic
(b) Calyx have five sepals and are united
(c) Androecium have five stamens and are epipetalous
(d) Ovary is inferior

Choose the correct answer from the options given below:

(1) (a), (b) and (c) only

(2) (d) only

(3) (a) and (b) only

(4) (b), (c) and (d) only

114. Select the correct sequence of experiments that led to a gradual understanding of photosynthesis in green plants.

(1) Absorption spectra of chlorophyll a and b → production of glucose → release of oxygen → role of air

(2) Role of air → release of oxygen → production of glucose → absorption spectra of chlorophyll a and b

(3) Release of oxygen → production of glucose → absorption spectra of chlorophyll a and b → role of air

(4) Production of glucose → role of air → release of oxygen → absorption spectra of chlorophyll a and b

115. The number of action potentials generated by sino-atrial node (SAN) in a healthy human is _____ per minute.

(1) 28 - 30 (2) 70 – 75
(3) 100 - 110 (4) 120 - 140

116. How many turns of Calvin cycle are required for the formation of three molecules of glucose?

(1) 6 (2) 3
(3) 1 (4) 18

117. Which of the following statements is incorrect?

(1) Blood coagulates in response to an injury
(2) Blood clot consists of fibrins
(3) Fibrin is produced from fibrinogen
(4) Fibrinogen is produced from fibrin

118. Match List-I with List-II.

	List – I		List – II
A.	Family	I.	*Sapindales*
B.	Genus	II.	*Dicotyledonae*
C.	Class	III.	*Anacardiaceae*
D.	Phylum	IV.	*Angiospermae*
E.	Order	V.	*Mangifera*

Choose the correct answer from the options given below:

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

119. Arrange the following taxonomic categories in ascending order.

(a) Genus (b) Class
(c) Order (d) Phylum
(e) Family (f) Kingdom
(g) Species

Choose the correct answer from the options:

(1) (g), (a), (e), (c), (b), (d), (f)
(2) (a), (c), (d), (g), (f), (b), (e)
(3) (g), (c), (d), (b), (e), (a), (f)
(4) (f), (c), (b), (g), (d), (e), (a)

120. Match List-I with List-II.

	List – I		List – II
A.	Marginal placentation	I.	Argemone
B.	Axile placentation	II.	Tomato
C.	Parietal placentation	III.	Primrose
D.	Free central placentation	IV.	Pea

Choose the correct answer from the options given below:

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

121. Sphenopsida class belongs to _____.

(1) bryophytes (2) angiosperms
(3) gymnosperms (4) pteridophytes

122. Which of the following statements regarding photorespiration are correct?

(a) Do not occur in C3 plants
(b) CO_2 is consumed and O_2 is generated
(c) Phosphoglycolate is formed
(d) No synthesis of ATP and NADPH

Choose the correct answer from the options:

(1) (a) and (d) only (2) (c) and (d) only
(3) (b) and (d) only (4) (a) and (b) only

123. Smooth endoplasmic reticulum _____.

(1) has ribosomes attached to its surface

(2) is the major site for the synthesis of lipids

(3) is actively involved in protein synthesis

(4) is a site for the synthesis of carbohydrates

124. Which one of the following statements is incorrect?

(1) α-cells of pancreas secrete glucagon

(2) α-cells of pancreas secrete insulin

(3) Glucagon stimulates glycogenolysis

(4) β-cells of pancreas secrete insulin

125. Genus represents _____.

(1) an individual plant or animal

(2) a population of plants and animals

(3) a group of closely related species

(4) a group of closely related families

126. Which of the following is not a prokaryote?

(1) Bacteria

(2) Blue green algae

(3) Mycoplasma

(4) Fungi

127. Which of the following plant growth regulators promotes internode elongation prior to flowering in cabbage?

(1) Abscisic acid (2) Gibberellin

(3) Indole butyric acid (4) Ethephon

128. The correct sequence of adult cell cycle phases is

(1) G1-M-G2-S (2) G1-S-G2-M

(3) S-M-G2-G1 (4) G1-G2-S-M

129. Match List-I with List-II.

	List – I		List – II
A.	Fusion of protoplasms between gametes	I.	Meiosis
B.	Fusion of two nuclei	II.	Plasmogamy
C.	Generation of haploid spores	III.	Karyogamy

Choose the correct answer from the options given below:

(1) A-II, B-III, C-I

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

(3) A-III, B-II, C-I

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

130. Given below are two statements:

Statement I: The class name Reptilia refers to creeping or crawling mode of locomotion.

Statement II: All organisms belonging to Reptilia have three chambered heart.

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

(1) Both Statement I and Statement II are correct

(2) Both Statement I and Statement II are incorrect

(3) Statement I is correct but Statement II is incorrect

(4) Statement I is incorrect but Statement II is correct

131. Given below are two statements:

Statement I: Chromosomes are fully condensed at the end of prophase I.

Statement II: Meiosis I resembles mitosis.

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

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

132. Which of the following is not a characteristic of chordates?

(1) Presence of notochord
(2) Central nervous system is dorsal
(3) Absence of gills
(4) Presence of post anal part (tail)

133. Length of the stem at time 0 is 20 cm. The arithmetic growth rate is 30 cm per day. What is the length of the stem at the end of the 7^{th} day?

(1) 50 cm (2) 170 cm
(3) 230 cm (4) 460 cm

134. Arrange the following elements in descending order of their contribution to percentage weight of the human body.

(a) Oxygen (b) Carbon
(c) Hydrogen (d) Nitrogen

Choose the correct answer from the options given below:

(1) (a), (b), (c), (d)
(2) (c), (a), (b), (d)
(3) (b), (c), (d), (a)
(4) (b), (a), (c), (d)

135. In frogs, the number of pairs of cranial nerves arising from the brain are _____.

(1) 6 (2) 9
(3) 10 (4) 12

136. Which of the following is used as a clot buster?

(1) Streptokinase
(2) Penicillin
(3) Cyclosporin A
(4) Statins

137. The inactive form of Bt toxin is converted to the active form in the insect gut _____

(1) due to alkaline pH
(2) due to acidic pH
(3) by proteases
(4) by nucleases

138. Given below are two statements:

Statement I: Down's syndrome is caused by the absence of one of the X-chromosomes.

Statement II: Turner's syndrome is caused by the presence of an additional copy of the chromosomes.

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

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

139. Which of the following disease is not sexually transmitted?

(1) Syphilis (2) Tuberculosis
(3) Gonorrhoea (4) Genital warts

140. Sperm motility is due to _____.

(1) flagellar movement
(2) ciliary movement
(3) amoeboid movement
(4) muscular movement

141. Natural selection can lead to _____.

(a) stabilisation
(b) genetic drift
(c) directional change
(d) disruption

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

(1) (a), (c) and (d) only
(2) (a), (b), (c) and (d)
(3) (a) and (c) only
(4) (a) only

142. The method of directly of injecting a sperm into ovum in assisted reproductive technology is called:

(1) Gamete intra fallopian transfer (GIFT)
(2) Zygote intra fallopian transfer (ZIFT)
(3) Intra cytoplasmic sperm injection (ICSI)
(4) Embryo transfer (ET)

143. Which of the following structure is not a part of the male reproductive system?

(1) Rete testis (2) Epididymis
(3) Vasa efferentia (4) Infundibulum

144. Arrange the following in descending order of number of species in the Amazonian rain forest.

(a) Plants (b) Birds
(c) Fishes (d) Invertebrates
(e) Mammals

Choose the correct answer from the options given below:

(1) (c) > (b) > (d) > (e) > (a)
(2) (d) > (a) > (c) > (b) > (e)
(3) (e) > (b) > (a) > (c) > (d)
(4) (b) > (a) > (d) > (c) > (e)

145. Given below are two statements:

Statement I: Ovulation is caused by LH surge leading to rupture of Graafian follicles.

Statement II: Graafian follicle remaining after ovulation transform into corpus luteum and secretes large amount of estrogen.

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

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

146. Which of the following are primary consumers in a food chain?

(1) Parasites
(2) Predators
(3) Herbivores
(4) Carnivores

147. A population of diploid organisms is at Hardy-Weinberg equilibrium. If the frequency of allele A is 0.1, the frequency of AA is _____.

(1) 0.01 (2) 0.02
(3) 0.10 (4) 0.99

148. Match List-I with List-II.

	List – I		List – II
A.	Excess growth hormone	I.	Reabsorption of water and electrolytes in kidney
B.	Luteinizing hormone	II.	Contraction of uterus during child birth
C.	Vasopressin	III.	Acromegaly
D.	Oxytocin	IV.	Ovulation

Choose the correct answer from the options given below:

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

149. The opening between the right atrium and the right ventricle is guarded by _____.

(1) bicuspid valve
(2) tricuspid valve
(3) semilunar valve
(4) sino-atrial node

150. Sponges exchange O_2 with CO_2 by _____.

(1) simple diffusion over their entire body surfaces
(2) moist cuticle
(3) tracheal tubes
(4) gills

151. How many theca are present in each lobe of a typical bilobed angiosperm anther?

(1) 2 (2) 6
(3) 8 (4) 12

152. Muscle contraction is initiated by a signal sent by the central nervous system by the release of _____.

(1) acetyl choline
(2) acetyl coenzyme A
(3) cyclic guanine monophosphate
(4) cyclic adenine monophosphate

153. Which of the following statements about lac-operon is correct?

(1) Gene *i* is constitutively expressed
(2) Lactose activates repressor to bind to the operator
(3) Genes *i, z, y* and a share single common promoter
(4) Galactose can act as an inducer of lac operon

154. Which of the following in female gametophyte of an angiosperm helps in guiding the pollen tube for fertilizing the eggs?

(1) Antipodals (2) Synergids
(3) Central cells (4) Polar nucleus

155. Which of the following plant produces non-albuminous seeds?

(1) Wheat (2) Maize
(3) Barley (4) Pea

156. If the diploid chromosome number of typical angiosperm is 36, what would be the chromosome number in its endosperm?

(1) 18 (2) 36
(3) 54 (4) 72

157. Which of the following statements about the reabsorption process in Henle's loop are **correct**?

(a) The descending limb of Henle's loop is permeable to water but almost impermeable to electrolytes.
(b) Urine gets concentrated in Henle's loop.
(c) Reabsorption of Na^+ and water takes place in Henle's loop.
(d) Active or passive transport of electrolytes occurs in the ascending limb of Henle's loop.

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

(1) (a) and (b) only
(2) (b), (c) and (d) only
(3) (a), (b) and (c) only
(4) (a), (b) and (d) only

158. Which of the following is the correct order of arrangement of vertebrate column from the head to toe?

(1) Cervical vertebra, thoracic vertebra, sacrum, lumbar vertebra
(2) Sacrum, lumbar vertebra, thoracic vertebra, cervical vertebra
(3) Cervical vertebra, lumbar vertebra, thoracic vertebra, sacrum
(4) Cervical vertebra, thoracic vertebra, lumbar vertebra, sacrum

159. Which of the following is not evidence for evolution?

(1) Convergent evolution of traits like wings of birds and butterflies
(2) Paleontological evidence from fossil records
(3) Embryological support for evolution as proposed by Ernst Heckel
(4) Divergent evolution of anatomical structures such as forelimbs

160. Given below are two statements:

Statement I: Modern *Homo sapiens* arose in Australia and moved across continents.

Statement II: Homo sapiens arose around 75000 to 10000 years ago.

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

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

161. Consider a population of 10 million cells. Given the per-capita birth rate of 0.002 (per unit time) and the per-capita death rate of 0.002 (per unit time), the expected number of cells after 10 generations is _____.

(1) 1 million (2) 5 million
(3) 10 million (4) 100 million

162. During PCR, primers bind to the DNA strands in the _____step.

(1) denaturation (2) extension
(3) annealing (4) ligation

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

Assertion (A): In recombinant DNA technology, lysozyme is used for disrupting bacterial cells while cellulase is for plant cells.

Reason (R): Isolation of genetic material needs disruption of cells.

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

(1) Both A and R are correct and R is the correct explanation of A

(2) Both A and R are correct but R is not the correct explanation of A

(3) A is correct but R is not correct

(4) A is not correct but R is correct

164. Adaptive radiation in placental mammals and Australian Marsupials leading to similarity between distant species is an example of _____.

(1) divergent evolution

(2) convergent evolution

(3) founder effect

(4) genetic drift

165. Which of the following are secondary lymphoid organs?

(a) Bone marrow (b) Tonsils
(c) Spleen (d) Thymus

Choose the correct answer from the options given below:

(1) (a) and (b) only

(2) (b) and (c) only

(3) (b) and (d) only

(4) (a) and (d) only

166. Which of the following hormone is not secreted by human placenta?

(1) hCG

(2) Estrogen

(3) Progesterone

(4) LH

167. Which of the following enzymes synthesizes precursor mRNA?

(1) RNA polymerase I

(2) RNA polymerase II

(3) RNA polymerase III

(4) DNA polymerase

168. Given below are two statements:

Statement I: Plasmids are autonomously replicating DNA.

Statement II: Plasmids are extrachromosomal DNA.

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

(1) Both Statement I and Statement II are correct

(2) Both Statement I and Statement II are incorrect

(3) Statement I is correct but Statement II is incorrect

(4) Statement I is incorrect but Statement II is correct

169. For a person with blood group 'O', which of the following is not a possible combination of parents' blood group genotypes?

(1) Father : I^Ai and Mother : I^Bi

(2) Father : I^Ai and Mother : I^Ai

(3) Father : I^Bi and Mother : I^Bi

(4) Father : I^Ai^B and Mother : I^Ai

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

Assertion (A): Forelimbs of human and bats are homologous.

Reason (R): Forelimbs of humans and bats have similar anatomical structure.

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

(1) Both A and R are correct and R is the correct explanation of A

(2) Both A and R are true, but R is not the correct explanation of A

(3) A is true but R is false

(4) A is false but R is true

171. Colostrum, secreted by mother during initial days of lactation, is abundant in _____.

(1) IgG (2) IgM

(3) IgA (4) IgD

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

Assertion (A): Abingdon tortoise in Galapagos islands became extinct within a decade after goats were introduced.

Reason (R): Goats were more efficient at browsing than Abingdon tortoise.

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

(1) Both A and R are correct and R is the correct explanation of A

(2) Both A and R are correct but R is not the correct explanation of A

(3) A is correct but R is not correct

(4) A is not correct but R is correct

173. The covering of ovum at ovulation is _____.

(1) endometrium (2) zona radiata

(3) zona pellucida (4) chorion

174. Match List-I with List-II.

	List – I		List – II
A.	Both species are harmed	I.	Predation
B.	One species is harmed and the other is benefited	II.	Mutualism
C.	Both species are benefited	III.	Competition
D.	One is benefited while the other has no effect	IV.	Commensalism

Choose the correct answer from the options given below:

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

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

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

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

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

Assertion (A): In an experiment, Mendel observed that the F1 progeny plants are all tall and none are dwarf.

Reason (R): Stem height is a contrasting trait, with tall being dominant and dwarf being recessive.

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

(1) Both A and R are correct and R is the correct explanation of A

(2) Both A and R are correct but R is not the correct explanation of A

(3) A is correct but R is not correct

(4) A is not correct but R is correct

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

Assertion (A): In recombinant DNA technology, lysozyme is used for disrupting bacterial cells while cellulase is for plant cells.

Reason (R): Isolation of genetic material needs disruption of cells.

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

(1) Both A and R are correct and R is the correct explanation of A

(2) Both A and R are correct but R is not the correct explanation of A

(3) A is correct but R is not correct

(4) A is not correct but R is correct

177. Which of the following is used as an effective sedative and painkiller for treating post-surgery patients?

(1) Interferon

(2) Antibiotics

(3) Morphine

(4) Anti-retroviral drugs

178. Which of the following statements are Correct?

(a) Energy flow from producers to consumers is unidirectional

(b) Energy pyramid can never be inverted

(c) Transfer of energy follows the 1% law

Choose the correct answer from the options given below:

(1) (a), (b) and (c) (2) (a) and (b) only

(3) (a) and (c) only (4) (b) and (c) only

179. Which of the following statements is correct about Plasmodium?

(1) Reproduces sexually in liver cells

(2) Reproduces sexually in RBCs

(3) Gametocytes develop in mosquito gut

(4) Fertilization takes place in mosquito gut

180. Match List-I with List-II.

	List – I		List – II
A.	Transformation	I.	Restriction enzyme
B.	Cloning site	II.	Transfer DNA to host bacteria
C.	Selection	III.	Replication
D.	Ori	IV.	Antibiotic

Choose the correct answer from the options given below:

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

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

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

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