

BIOLOGY

91. 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) 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

Ans. (4)

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

(1) 18

(2) 6

(3) 3

(4) 1

Ans. (1)

93. Photorespiration reaction catalyzed by RuBisCo is shown below :



Identify "X" from the given options :

(1) Malate

(2) Phosphoenolpyruvate

(3) 2- Phosphoglycolate

(4) Oxaloacetate

Ans. (3)

94. 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 option 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

Ans. (2)

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

(1) 412

(2) 206

(3) 309

(4) 103

Ans. (1)

96. Match List-I with List-II.

List-I

A. Fusion of protoplasts between gametes

B. Fusion of two nuclei

C. Generation of haploid spores

List-II

I. Meiosis

II. Plasmogamy

III. Karyogamy.

Choose the correct answer from the option given below :

(1) A – I, B–III, C–II **(2) A–II, B–III, C–I** (3) A–II, B–I, C–III (4) A–III, B–II, C–I

Ans. **(2)**

97. Mitochondrial inner membrane encloses_____.

(1) aqueous humor **(2) Matrix** (3) Cytosol (4) Mucus

Ans. **(2)**

98. Phyllotaxy is the pattern of arrangement of _____.

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

Ans. **(2)**

99. Mad cow disease is caused by

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

Ans. **(2)**

100. Cell theory was formulated by

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

Ans. **(2)**

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

(1) Ethephon (2) Absciscic acid **(3) Gibberellin** (4) Indole butyric acid

Ans. **(3)**

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

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

Ans. **(3)**

103. Sphenopsida class belongs to

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

Ans. **(1)**

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

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

Ans. **(4)**

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

(1) Gibberellin **(2) 2,4-D** (3) Kinetin (4) Absciscic acid

Ans. **(2)**

- 106.** Genus represents
(1) a group of closely related families (2) an individual plant or animal
(3) a population of plants and animals **(4) a group of closely related species**
Ans. (4)
- 107.** The plastid that stores xanthophyll is known as
(1) amyloplast (2) chloroplast
(3) chromoplast (4) aleuroplast
Ans. (3)
- 108.** In water, frogs respire using
(1) trachea **(2) skin** (3) buccal cavity (4) lungs
Ans. (2)
- 109.** Which of the following is not characteristic of chordates ?
(1) Presence of post anal part (tail) (2) Presence of notochord
(3) Central nervous system is dorsal **(4) Absence of gills**
Ans. (4)
- 110.** Smooth endoplasmic reticulum
(1) is a site for the synthesis of carbohydrates (2) has ribosomes attached to its surface
(3) is the major site for the synthesis of lipids (4) is actively involved in protein synthesis
Ans. (3)
- 111.** 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) (a), (b) and (c) only (2) (b) and (c) only
(3) (a) and (c) only (4) (a), (c) and (d) only
Ans. (1)
- 112.** Match List-I with List-II.
List-I
A. Cristae
B. Cisternae
C. Thylakoids
D. Phospholipid
List-II
I. Flat membrane sacs in stroma of chloroplast
II. Infoldings in mitochondria
III. Cell membrane
IV. Disc shaped sacs in the Golgi apparatus
Choose the correct answer from the options given below:
(1) A-IV, B-III, C-I, D-II (2) A-III, B-IV, C-I, D-II **(3) A-II, B-IV, C-I, D-III** (4) A-II, B-IV, C-III, D-I
Ans. (3)

113. 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) (b) and (c) only (2) (a) and (b) only **(3) (a), (b) and (c) only** (4) (c) and (d) only

Ans. (3)

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

- (a) Do not occur in C_3 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 given below:

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

Ans. (3)

115. Which of the following statements is incorrect?

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

Ans. (1)

116. 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 given below:

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

Ans. (2)

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

- (1) Production of glucose → role of air → release of oxygen → absorption spectra of chlorophyll a and b
- (2) Absorption spectra of chlorophyll a and b → production of glucose → release of oxygen → role of air
- (3) Role of air → release of oxygen → production of glucose → absorption spectra of chlorophyll a and b**
- (4) Release of oxygen → production of glucose → absorption spectra of chlorophyll a and b → role of air

Ans. (3)

118. Match List-I with List-II.

List-I

- A. Starch
- B. Antibody
- C. Concanavalin A
- D. Glut-4

List-II

- I. Fights infection
- II. Energy storage
- III. Glucose transport
- IV. Lectin

Choose the correct answer from the options given below:

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

Ans. (3)

119. The number of vertebrae in a human is

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

Ans. (4)

120. Endomembrane system includes

- (1) Golgi complex, chloroplast, peroxisomes and vacuole
(2) **endoplasmic reticulum, Golgi complex, lysosomes and vacuole**
(3) endoplasmic reticulum, chloroplast, peroxisomes and vacuole
(4) mitochondria, chloroplast, peroxisomes and vacuole

Ans. (2)

121. 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 7th day ?

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

Ans. (4)

122. Match List-I with List-II.

List-I

- A. Spherical
- B. Rod
- C. Comma
- D. Spirillum

List-II

- I. Vibrio
- II. Cocci
- III. Spirilla
- IV. Bacilli

Choose the correct answer from the options given below:

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

Ans. (1)

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

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

Ans. (3)

124. Match List-I with List-II.

List-I

- A. Family
- B. Genus
- C. Class
- D. Phylum
- E. Order

List-II

- I. Sapindales
- II. Dicotyledonae
- III. Anacardiaceae
- IV. Angiospermae
- V. Mangifera

Choose the correct answer from the options given below:

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

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

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

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

Ans. (1)

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

(1) Pericardium

(2) Arachnoid

(3) Dura mater

(4) Pia mater

Ans. (1)

126. 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) 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

Ans. (4)

127. Match List-I with List-II.

List-I

- A. Marginal placentation
- B. Axile placentation
- C. Parietal placentation
- D. Free central placentation

List-II

- I. Argemone
- II. Tomato
- III. Primrose
- IV. Pea

Choose the correct answer from the options given below:

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

Ans. (1)

128. Symbiotic association between fungi and algae are called

(1) chrysophytes

(2) lichens

(3) sponges

(4) mycorrhiza

Ans. (2)

129. Which of the following is not a prokaryote ?

(1) Fungi

(2) Bacteria

(3) Blue green algae

(4) Mycoplasma

Ans. (1)

130. 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) (b), (a), (c), (d) **(2) (a), (b), (c), (d)** (3) (c), (a), (b), (d) (4) (b), (c), (d), (a)

Ans. (2)

131. Which one of the following statements is incorrect?

- (1) beta-cells of pancreas secrete insulin
(2) alpha-cells of pancreas secrete glucagon
(3) alpha-cells of pancreas secrete insulin
(4) Glucagon stimulates glycogenolysis

Ans. (3)

132. 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) (b), (c) and (d) only **(2) (a), (b) and (c) only** (3) (d) only (4) (a) and (b) only

Ans. (2)

133. 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) 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

Ans. (4)

134. The correct sequence of adult cell cycle phases is

- (1) S-M-G2-G1 (2) G1-G2-S-M (3) G1-M-G2-S **(4) G1-S-G2-M**

Ans. (4)

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

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

Ans. (4)

136. 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) 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

Ans. (2)

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

(1) Embryo transfer (ET)

(2) Gamete intra fallopian transfer (GIFT)

(3) Zygote intra fallopian transfer (ZIFT)

(4) Intra cytoplasmic sperm injection (ICSI)

Ans. (4)

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

(1) genetic drift

(2) divergent evolution

(3) convergent evolution

(4) founder effect

Ans. (3)

139. 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) 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

Ans. (2)

140. 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) (b) > (a) > (d) > (c) > (e)

(2) (c) > (b) > (d) > (e) > (a)

(3) (d) > (a) > (c) > (b) > (e)

(4) (e) > (b) > (a) > (c) > (d)

Ans. (3)

141. Sponges exchange O₂ with CO₂ by

(1) gills

(2) simple diffusion over their entire body surfaces

(3) moist cuticle

(4) tracheal tubes

Ans. (2)

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

(1) Father: $I^A I^B$ and Mother: $I^A i$

(2) Father: $I^A i$ and Mother: $I^B i$

(3) Father: $I^A i$ and Mother: $I^A i$

(4) Father: $I^B i$ and Mother: $I^B i$

Ans. (1)

143. 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) 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

Ans. (1)

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

(1) Anti-retroviral drugs

(2) Interferon

(3) Antibiotics

(4) Morphine

Ans. (4)

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

(1) Pea

(2) Wheat

(3) Maize

(4) Barley

Ans. (1)

146. 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) 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

Ans. (2)

147. The covering of ovum at ovulation is

(1) chorion

(2) endometrium

(3) zona radiata

(4) zona pellucida

Ans. (4)

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

(1) Statins

(2) Streptokinase

(3) Penicillin

(4) Cyclosporin A

Ans. (2)

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

(1) Infundibulum

(2) Rete testis

(3) Epididymis

(4) Vasa efferentia

Ans. (1)

150. 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) 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

Ans. (4)

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

(1) sino-atrial node

(2) bicuspid valve

(3) tricuspid valve

(4) semilunar valve

Ans. (3)

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

(1) Divergent evolution of anatomical structures such as forelimbs

(2) Convergent evolution of traits like wings of birds and butterflies

(3) Paleontological evidence from fossil records

(4) Embryological support for evolution as proposed by Ernst Haeckel

Ans. (4)

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

(1) by nucleases

(2) due to alkaline pH

(3) due to acidic pH

(4) by proteases

Ans. (2)

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

(1) IgD

(2) IgG

(3) IgM

(4) IgA

Ans. (4)

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

(1) Polar nucleus

(2) Antipodals

(3) Synergids

(4) Central cells

Ans. (3)

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

(1) Genital warts

(2) Syphilis

(3) Tuberculosis

(4) Gonorrhoea

Ans. (3)

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

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

Ans. (2)

158. Match List-I with List-II.

List-I

- A. Transformation
- B. Cloning site
- C. Selection
- D. Ori

List-II

- I. Restriction enzyme
- II. Transfer DNA to host bacteria
- III. Replication
- IV. Antibiotic

Choose the correct answer from the options given below :

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

Ans. (2)

159. 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) 0.99
- (2) 0.01**
- (3) 0.02
- (4) 0.10

Ans. (2)

160. Sperm motility is due to _____.

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

Ans. (2)

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

Ans. (4)

162. 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) A is false but R is true
- (2) Both A and R are correct 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

Ans. (2)

163. Muscle contraction is initiated by a signal sent by the central nervous system by the release of _____.
(1) cyclic adenine monophosphate

(2) acetyl choline

(3) acetyl coenzyme A

(4) cyclic guanine monophosphate

Ans. (2)

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

(1) LH

(2) hCG

(3) Estrogen

(4) Progesterone

Ans. (1)

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

(1) Fertilization takes place in mosquito gut

(2) Reproduction sexually in liver cells

(3) Reproduces sexually in RBCs

(4) Gametocytes develop in mosquito gut

Ans. (1)

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

(1) Carnivores

(2) Parasites

(3) Predators

(4) Herbivores

Ans. (4)

167. 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), (b) and (d) only

(2) (a) and (b) only

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

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

Ans. (1)

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

Assertion A : The logistic growth model of populations is considered more realistic than the exponential growth model.

Reason R : Resources are finite.

In the light of the above statements, choose the most appropriate answer from the 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

Ans. (2)

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

(1) Cervical vertebra, thoracic vertebra, lumbar vertebra, sacrum

(2) Cervical vertebra, thoracic vertebra, sacrum, lumbar vertebra

(3) Sacrum, lumbar vertebra, thoracic vertebra, cervical vertebra

(4) Cervical vertebra, lumbar vertebra, thoracic vertebra, sacrum

Ans. (1)

170. Match List-I with List-II

List-I

A. Both species are harmed

B. One species is harmed and the other is benefited

C. Both species are benefited

D. One is benefited while the other has no effect

List-II

I. Predation

II. Mutualism

III. Competition

IV. Commensalism

Choose the correct answer from the options given below :

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

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

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

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

Ans. (1)

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

(1) 72

(2) 18

(3) 36

(4) 54

Ans. (4)

172. Which of the following enzymes synthesizes precursor mRNA ?

(1) DNA polymerase

(2) RNA polymerase I

(3) RNA polymerase II

(4) RNA polymerase III

Ans. (3)

173. 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) 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

Ans. (2)

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

(1) 12

(2) 2

(3) 6

(4) 8

Ans. (2)

175. Natural selection can lead to _____.
(a) stabilisation (2) genetic drift (3) directional change (4) disruption

Choose the correct answer from the options given below :

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

Ans. (3)

176. 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) (b) and (c) only (2) (a), (b) and (c) **(3) (a) and (b) only** (4) (a) and (c) only

Ans. (3)

177. Match List-I with List-II.

List-I

- A. Excess growth hormone
B. Luteinizing hormone
C. Vasopressin
D. Oxytocin

List-II

- I. Reabsorption of water and electrolytes in kidney
II. Contraction of uterus during child birth
III. Acromegaly
IV. Ovulation

Choose the correct answer from the options given below.

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

Ans. (3)

178. 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 (d) only (2) (a) and (b) only **(3) (b) and (c) only** (4) (b) and (d) only

Ans. (3)

179. During PCR, primers bind to the DNA strand in the _____ step.

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

Ans. (4)

180. 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) 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

Ans. (3)