

12

NEET 2026

Biology_Botany_Answer Key

91. "The Evil Quartet" of biodiversity loss includes which of the following?

- (1) Over-exploitation; Alien species invasions; Air pollution; Co-extinctions
- (2) Habitat loss and fragmentation; Over-exploitation; Alien species invasions; Co-extinctions
- (3) Habitat loss and fragmentation; Air pollution; Water pollution; Co-extinctions
- (4) Over-exploitation; Alien species invasions; Soil pollution; Co-extinctions

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

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

93. Match List I with List II:

	List-I (Phase of cell cycle)		List-II (Activity)
A	G ₁ phase	I	Actual cell division occurs
B	S phase	II	Cell is metabolically active and continuously grows but does not replicate its DNA
C	G ₂ phase	III	Synthesis of DNA occurs and the amount of DNA per cell doubles
D	M phase	IV	Proteins are synthesized while cell growth continues

Choose the correct answer from the options given below:

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

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

95. Which of the following statements are correct?

- A. The Amazon rainforest being cut and cleared for cultivation of soyabeans 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) B, C and D only
- (2) **A, B and D only**
- (3) A, B and D only
- (4) C, D and E only

96. 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) C, D and E only
- (2) **B, C and E only**
- (3) B, D and E only
- (4) A, B and C only

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

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

98. Which of the following statements are not true regarding restriction endonucleases?

- A. They are called molecular scissors.
- B. These are the enzymes responsible for restricting the growth of bacteriophages in *E. coli*.
- C. They cut the DNA only at the centre of the palindromic sites.
- D. They remove nucleotides only from the ends of DNA fragments.
- E. They recognise specific palindromic base-pair sequences.

Choose the answer from the options given below:

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

99. Match List I with List II:

	List-I		List-II
A	Decomposition	I	Accumulation of dark coloured amorphous colloidal substance
B	Detritus	II	Release of inorganic nutrients by the activity of microbes in soil
C	Mineralisation	III	Breaking down of complex organic matter into inorganic substances
D	Humification	IV	Dead remains of plants and animals including fecal matter

Choose the correct answer from the options given below:

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

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

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

101. Match List I with List II:

	List I (Placentation)		List II (Example)
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-I, B-III, C-II, D-IV
- (2) A-IV, B-II, C-I, D-III
- (3) A-II, B-IV, C-I, D-III
- (4) A-III, B-I, C-IV, D-II

102. In angiosperms, root hairs arise from which one of the following regions of the root?

- (1) The root cap zone
- (2) The region of meristematic activity
- (3) The region of elongation
- (4) The region of maturation

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

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

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

105. Alpha-helix is found in which level of protein structure?

- (1) Quaternary structure
- (2) Tertiary structure
- (3) Primary structure
- (4) Secondary structure

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

107. The main function of bulliform cells in grasses is:

- (1) to make the leaf impermeable to fungal spores
- (2) to perform photosynthesis
- (3) to transport water
- (4) to minimize water loss during water stress

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

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

110. Match List I with List II:

	List I		List II
A	Genetically modified organism	I	Agrobacterium tumefaciens
B	Thermostable DNA polymerase	II	Bt cotton
C	Ti plasmid	III	Thermus aquaticus
D	pBR322	IV	Escherichia coli

Choose the correct answer from the options given below:

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

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

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

112. In racemose inflorescence:

- (1) the main axis terminates in a flower
- (2) the growth is limited
- (3) flowers are borne in an acropetal succession
- (4) flowers are solitary

113. 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) Haemophilia
- (2) Thalassemia
- (3) Sickle-cell anaemia
- (4) Phenylketonuria

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

115. Arrange the following in the correct developmental sequence related to microsporogenesis:

- A. Microspore tetrads
- B. Sporogenous tissue
- C. Pollen grains
- D. Pollen mother cells

Choose the correct answer from the options given below:

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

116. 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, E, C, B, D
- (3) A, B, D, C, E
- (4) A, D, B, E, C

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

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

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

(3) A, B, D and E only

(4) A, B, C and E only

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

(1) Denaturation → Annealing → Extension

(2) Denaturation → Extension → Annealing

(3) Extension → Annealing → Denaturation

(4) Annealing → Denaturation → Extension

120. 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 D only (2) B and D only

(3) B and C only (4) A and B only

121. The main criteria used for Five Kingdom Classification proposed by R.H. Whittaker (1969) included:

A. Cell structure

B. Body organization

C. Presence of flagellum

D. Reproduction

E. Phylogenetic relationships

Choose the correct answer from the options given below:

(1) A, B, D and E only

(2) A, B, C, D and E

(3) A, B and E only

(4) B, C and D only

122. Which one of the following is a triploid cell?

(1) Central cell

(2) Primary endosperm cell

(3) Zygote

(4) Synergid

123. 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) A, B and D only

(2) A, C and E only

(3) C, D and E only

(4) B, D and E only

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

(1) Sacred Groves

(2) Wildlife Safari Parks

(3) Botanical Gardens

(4) Seed Banks

125. In the lac operon, the z gene codes for:

- (1) transacetylase
- (2) the repressor of lac operon
- (3) permease
- (4) beta-galactosidase

126. Match List I with List II:

	List I (Growth Regulator)		List II (Function/Effect)
A	2, 4-D	I	Brewing industry
B	GA ₃	II	Stimulation of stomatal closure
C	Kinetin	III	Herbicide
D	ABA	IV	Nutrient mobilisation

Choose the correct answer from the options given below:

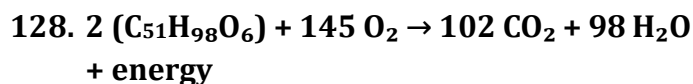
- (1) A-IV, B-III, C-II, D-I
- (2) A-I, B-II, C-IV, D-III
- (3) A-II, B-I, C-IV, D-III
- (4) A-I, B-IV, C-III, D-I

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



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

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

129. Since the origin and diversification of life on Earth, there have been five episodes of mass extinction of species. How is the sixth extinction, which is in progress, different from the previous episodes?

- (1) The current species extinction rates are far lower than those in previous episodes.
- (2) The present species extinction rates are 100 to 1000 times faster than in the pre-human times.
- (3) The present net species extinction rate is zero
- (4) The current species extinction rate is nearly 10 times faster than that in previous episodes.

130. Match List I with List II:

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

Choose the correct answer from the options given below:

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

131. Which one of the following statements is not true about the universal rules of binomial nomenclature?

- (1) Both the words in a biological name, when handwritten, are separately underlined or printed in italics
- (2) The specific epithet in the biological name starts with a small letter
- (3) The first word in the biological name represents the specific epithet, while the second component denotes the genus.
- (4) Biological names are generally in Latin.

132. The enzyme required for carboxylation in the Calvin cycle is:

- (1) PEP carboxylase
- (2) RuBP carboxylase-oxygenase
- (3) Carboxypeptidase
- (4) Hexokinase

133. Which of the following floral formula is the correct floral formula of Solanaceae family?

- (1) $\oplus \overset{\text{♂}}{\underset{\text{♀}}{\text{K}}}_{(5)} \overset{\text{♂}}{\underset{\text{♀}}{\text{C}}}_{(5)} \text{A}_5 \underline{\text{G}}_{(2)}$
- (2) $\oplus \overset{\text{♂}}{\underset{\text{♀}}{\text{K}}}_5 \overset{\text{♂}}{\underset{\text{♀}}{\text{C}}}_{(5)} \text{A}_5 \underline{\text{G}}_{(2)}$
- (3) $\oplus \overset{\text{♂}}{\underset{\text{♀}}{\text{K}}}_{(5)} \overset{\text{♂}}{\underset{\text{♀}}{\text{C}}}_{(5)} \text{A}_5 \underline{\text{G}}_{(2)}$
- (4) $\oplus \overset{\text{♂}}{\underset{\text{♀}}{\text{K}}}_5 \text{C}_5 \text{A}_5 \underline{\text{G}}_{(2)}$

134. Which one of the following types of pollination brings genetically different types of pollen grains to the stigma?

- (1) Geitonogamy
- (2) Autogamy
- (3) Xenogamy
- (4) Cleistogamy

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

NEET 2025

80 घुरंधर

MBBS
सिलेक्शन



NOW @
NAIR
MUMBAI

99.55%ile

AYUSH VISHWAKARMA

556 / 720

GMC
BARAMATI

SHRUTI TIWARI
544/720
99.31%ile

GMC
SOLAPUR

ASHWIKHA CHAKKATTIL
536/720
99.09%ile

RGMC
MUMBAI

RIDIMA BHOSLE
536/720
99.09%ile

KJS
SION

TISHA JANGID
529/720
98.87%ile

GMC
MUMBAI

SHRADDHA DUBEY
527/720
98.80%ile

GMC
AKOLA

SHRADDHA YADAV
526/720
98.77%ile

GMC
ALIBAUG

MAHEK TIWARI
523/720
98.65%ile

SVNGMC
YAVATMAL

KHUSHI NIHALANI
522/720
98.61%ile

GMC
DHULE

TUSHAR JANGID
520/720
98.54%ile

GMC
AMRAVATI

POOJA SINGH
517/720
98.42%ile

GMC
NANDURBAR

KHUSHI MISHRA
515/720
98.33%ile

GMC
NANDURBAR

SHRUTI MAURYA
511/720
98.16%ile

GMC
GONDIA

ABDUL CHOUDHARY
511/720
98.16%ile

JNMC
BELGAUM

SUBHAAN PATANWALA
507/720
97.97%ile

GMC
BHANDARA

MONAL SINGH
506/720
97.92%ile

GMC
GADCHIROLI

ADWITA MISHRA
505/720
97.87%ile

GMC
GADCHIROLI

DHANRAJ MISHRA
504/720
97.82%ile

KMC
GADCHIROLI

AKSHITA TRIPATHI
504/720
97.82%ile

NEET 2025



NOW @
LTMC
MUMBAI
99.48%ile

MD. ARQAM ANSARI

552 /720



NOW @
GT & CAMA
MUMBAI
99.46%ile

TIRTHA NAIR

551 /720



GMC
ALIBAUG

AMEERA KAZI

533/720

99.00%ile



GMC
NANDED

PRATHVI SALIAN

532/720

98.97%ile



RGMC
MUMBAI

NEHA SHARMA

530/720

98.90%ile



RGMC
MUMBAI

HARKRISH JOSHI

520/720

98.54%ile



GMC
AMRAVATI

MANISH KUMAVAT

520/720

98.54%ile



GMC
NANDURBAR

PRINCE SOLANKI

520/720

98.54%ile



GMC
BULDHANA

HRISHIKESH DUBE

511/720

98.16%ile



GMC
SINDHURG

ALKA SINGH

509/720

98.06%ile



GMC
BHANDARA

VAIBHAV DAMANI

509/720

98.06%ile



VPMC
NASHIK

KOMAL SINGH

503/720

97.77%ile



KNMC
PUNE

VRUSHTI VAGHASIA

502/720

97.72%ile



IIMSR
JALNA

ALISHA SYED

502/720

97.72%ile

Name

Darshan Gharat
Saniya Shaikh
Saher Farooque
Yugank Utta
Dilip Modi
Ambika Chaurasiya
Riya Thacker
Anu Chhawchharia
Misba Khan
Taniya Raina
Ayush Mishra
Viraag Kothari
Khushi Bajaj
Piyush Jain
Srithaja Yalaka
Vaishnavi Pal
Harshit Yadav
Nehali Kashid
Shreyash Wagharalkar
Ashraful Khan
Aditya Gupta
Kadambari Belekar
Ananya Tandle
Kalash Mishra
Saachi Jadhav
Khushi Chaurasia
AadityaYadav
Heva Raut
Tanishk Rai
Vidya Chhetiar
Amaan Patanwala
Zoya Ali Sayed
Harshika Dalvi
Akshita Shetty
Preeti Chauhan
Vaishnavi Singh
Hiya Tibrewala
Hiral Patel
Vaishnavi Agarwal
Naina Sahu
Archie Sharma
Shreeram Dubey
Palavi Kadam
Anuj Singh
Krishna Dubey
Sneha Dubey
Farhan Shaikh

College

KNMC, Pune
KNMC, Pune
MIME, Talegaon
ACPM, Dhule
SMBT, Nashik
PDMC, Amravati
SMBT, Nashik
SMBT, Nashik
IIMSR, Jalna
VVPFMC, Ahilyanagar
ACPM, Dhule
ACPM, Dhule
SMBT, Nashik
SMBT, Nashik
ACPM, Dhule
ACPM, Dhule
PIMC, Sangli
NYTMC, Karjat
SNKMC, Kopergaon
SSPM, Sindhudurg
VMC, Palghar
GT & CAMA, Mumbai
NYTMC, Karjat
MIMS, Lucknow
GMC, Ratnagiri
SGMC, Gorakhpur
SMBT, Igatpuri
GMC, Alibaug
HIMC, Varanasi
ASMC, AP
JNMC, Belgaum
MGMC, Navi Mumbai
MGM, Panvel
AJIMC, Mangalore
SKSMC, Mathura
RMC, UP
PIMC, Lucknow
Naraina, Kanpur
MGMC, Navi Mumbai
PMC, Jharkhand
DY Patil, Navi Mumbai
SRNMC, Allahabad
BVMC, Pune
SCMC, Bihar
CMC, Lucknow
TSMC, Lucknow
CMC, Lucknow

सपने नहीं हकीकत बुनते है,
तमी तो SCIENCE वाले **TSPH** चुनते है ।

Challenge Your Limits!

BHAYANDAR BRANCH

1st Floor, Ashoka Shopping Centre,
Navghar Road, Near Railway Station,
Bhayandar (E),

☎ 8652 375 375

MIRA ROAD BRANCH

1st Floor, D/232, Shanti Shopping Centre,
Near Railway Station,
Mira Road (E)

☎ 8652 373 373