



NEET 2022

Questions, Answer Key & Solutions

Date: 17 July, 2022 | TIME: (02:00 PM to 05:20 PM)

Duration: 200 minutes (03 Hrs. 20 Min.) | Max. Marks: 720

Important Instructions:

- The Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars on OFFICE Copy carefully with **blue/black** ball point pen only.
- The test is of **3 hours** duration and Test Booklet contains 200 multiple-choice questions (four options with a single correct answer) from **Physics, Chemistry and Biology (Botany and Zoology)**. 50 questions in each subject are divided into **two Sections (A and B)** as per details given below.
 - Section A** shall consist of **35 (Thirty-five)** Questions in each subject (Questions Nos – 1 to 35, 51 to 85, 101 to 135 and 151 to 185). All questions are compulsory.
 - Section B** shall consist of **15 (Fifteen)** questions in each subject (Question Nos - 36 to 50, 86 to 100, 136 to 150 and 186 to 200). In Section B, a candidate needs to **attempt any 10 (Ten) questions out of 15 (Fifteen)** in each subject.
Candidates are advised to read all 15 questions in each subject of Section B before they start attempting the question paper. In the event of a candidate attempting more than ten questions, **the first ten questions answered by the candidate shall be evaluated.**
- Each question carries **4 marks**. For each correct response, the candidate will get 4 marks. For each incorrect response, **one mark** will be deducted from the total scores. **The maximum marks are 720.**
- Use **Blue/Black Ball Point Pen only** for writing particulars on this page/markings responses on Answer Sheet.
- Rough work is to be done on the space provided for this purpose in the Test Booklet only.
- 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.
- The CODE for this Booklet is S3. Make sure that the CODE printed on the Original Copy of the Answer Sheet is the same as that on this Test Booklet.** In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
- 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.
- Each candidate must show on-demand his/her Admit Card to the Invigilator.
- No candidate, without special permission of the centre Superintendent or Invigilator, would leave his/her seat.
- The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign (with time) the Attendance Sheet twice. **Cases, where a candidate has not signed the Attendance Sheet second time, will be deemed not to have handed over the Answer Sheet and dealt with as an Unfair Means case.**
- Use of Electronic/ Manual Calculator is prohibited.
- 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 the Rules and Regulations of this examination.
- No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.**
- The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet in the Attendance Sheet.
- Compensatory time of one hour five minutes will be provided for the examination of three hours and 20 minutes duration, whether such candidate (having a physical limitation to write) uses the facility of scribe or not.

In case of any ambiguity in translation of any question, English version shall be treated as final.

प्रश्नों के अनुवाद में किसी अस्पष्टता की स्थिति में, अंग्रेजी संस्करण को ही अन्तिम माना जायेगा।

Name of the Candidate (in Capital letters): _____

Roll Number: in figures:

--	--	--	--	--	--	--	--

 in words: _____

Name of Examination Centre (in Capital letters) : _____

Candidate's Signature: _____ Invigilator's Signature: _____

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555



facebook.com/ResonanceEdu



twitter.com/ResonanceEdu



www.youtube.com/resowatch



blog.resonance.ac.in

PART : BIOLOGY
Section A (Biology : Botany)

Section-I

Single Choice Type

This section contains **35 Single choice questions**. Each question has 4 choices (1), (2), (3) and (4) for its answer, out of which **Only One** is correct.

101. In old trees the greater part of secondary xylem is dark brown and resistant to insect attack due to:

- (a) Secretion of secondary metabolites and their deposition in the lumen of vessels.
- (b) Deposition of organic compounds like tannins and resin in the central layers of stem.
- (c) Deposition of suberin and aromatic substance in the outer layer of stem.
- (d) Deposition of tannins, gum, resin and aromatic substance in the peripheral layers of stem.
- (e) Presence of parenchyma cells, functionally active xylem elements and essential oils.

Choose the correct the answer from the options given below.

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

Ans.

(3)

102. Read the following statements and choose the set of correct statements:

- (a) Euchromatin is loosely packed chromatin
- (b) Heterochromatin is transcriptionally active
- (c) Histone octamer is wrapped by negatively charged DNA in nucleosome
- (d) Histone are rich in lysine and arginine
- (e) A typical nucleosome contain 400 bp of DNA helix

Choose the correct answer from the option given below :

- (1) (b), (e) Only
- (2) (a), (c), (e) Only
- (3) (b), (d), (e) Only
- (4) (a), (c), (d) Only

Ans.

(4)

103. Which one of the following statement in not true regarding gel electrophoresis technique?

- (1) The presence of chromogenic substrate gives blue coloured DNA bands on the gel.
- (2) Bright orange coloured bands of DNA can be observed in the gel when exposed to UV light
- (3) The process of extraction of separated DNA strands from gel is called elution.
- (4) The separated DNA fragments are stained by using ethidium bromide.

Ans.

(1)

104. Exoskeleton of arthropods is compounds of

- (1) Chitin
- (2) Glucosamine
- (3) Cutin
- (4) Cellulose

Ans.

(1)

105. Match List – I with List- II.

Choose the correct answer from the option given below :

List – I		List – II	
(a)	Manganese	(i)	Activated the enzyme catalase
(b)	Magnesium	(ii)	Required for pollen germination
(c)	Boron	(iii)	Activated the enzyme respiration
(d)	Iron	(iv)	Functions in splitting of water during photosynthesis

- (1) (a) –(iv), (b)- (i), (c)-(ii), (d)-(iii)
- (2) (a) –(iii), (b)- (i), (c)-(ii), (d)-(iv)
- (3) (a) –(iii), (b)- (iv), (c)-(i), (d)-(ii)
- (4) (a) –(iv), (b)- (iii), (c)-(ii), (d)-(i)

Ans.

(4)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

106. DNA polymorphism from the basis of
(1) Both genetic mapping and DNA finger printing
(2) Translation
(3) Genetic mapping
(4) DNA finger printing
Ans. (1)
107. The gaseous plant growth regulator is used in plants to :
(1) help overcome apical dominance
(2) kill dicoty ledonous weeds in the field.
(3) speed up the mailing process
(4) promote root growth and roothair formation to increase the absorption surface.
Ans. (4)
108. Given below are two statements:
Statement I :
The primary CO₂ acceptor in C₄ plants is phosphoenolpyruvate and found in the mesophyll cells.
Statement II :
Mesophyll cells of C₄ plants lack Rubisco enzyme in the light of the above statements, choose the correct answer from the option given below :
(1) Statement I is correct but Statements II is incorrect
(2) Statement I is incorrect but Statements II is correct
(3) Both Statement I and Statements II are correct
(4) Both Statement I and Statements II are incorrect
Ans. (3)
109. Habitat loss and fragmentation, over exploitation, alien species invasion and co-extinction are cause for
(1) Biodiversity loss (2) Natality (3) Population (4) Competition
Ans. (1)
110. Production of cucumber has increased manifold in recent year. Application of which of the following phytohormones has resulted in this increased yield as the hormone is known produce female flowers in the plants:
(1) Ethylene (2) Cytokinin (3) ABA (4) Gibberellin
Ans. (1)
111. The appearance of recombination nodules on homologous chromosome during meiosis characterize:
(1) Sites at which crossing over occurs (2) Terminalization
(3) Synaptonemal complex (4) Bivalent
Ans. (1)
112. Which of the following is not a method of ex situ conversation?
(1) Micropropagation (2) Cryopreservation
(3) In vitro fertilization (4) National park
Ans. (4)
113. Which one of the following produces nitrogen fixing nodules on roots of Alnus?
(1) Rhodospirillum (2) Beijernickia (3) Rhizobium (4) Frankia
Ans. (4)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555  7340010333  facebook.com/ResonanceEdu  twitter.com/ResonanceEdu  www.youtube.com/resowatch  blog.resonance.ac.in


- 114.** Which one of the following statements cannot be connected to predation?
 (1) Both the interacting species are negatively impacted
 (2) It is necessitated by nature to maintain the ecology balance
 (3) It helps in maintaining species diversity in a community
 (4) It might lead to extinction of a species
Ans. (1)
- 115.** The device which can remove particulate matter present in the exhaust from a thermal power plant is:
 (1) Electrostatic precipitator (2) Catalytic convertor
 (3) STP (4) Incinerator
Ans. (1)
- 116.** Identify the incorrect statement related to pollination
 (1) Flowers produces foul odours to attract flies and beetles to get pollinated
 (2) Moths and butterflies are the most dominant pollinating agents among insects
 (3) Pollination by water is quite rare in flowering plants
 (4) Pollination by wind is more common amongst abiotic pollination
Ans. (2)
- 117.** Which one of the following plants does not show plasticity?
 (1) Buttercup (2) Maize (3) Cotton (4) Coriander
Ans. (2)
- 118.** What amount of energy is released from glucose during lactic acid fermentation?
 (1) About 10% (2) Less 7 %
 (3) Approximately 15% (4) More than 18%
Ans. (2)
- 119.** "Girdling Experiment" was performed by plant physiologists to identify the plant tissue through which :
 (1) for both water and food transportation (2) osmosis is observed
 (3) water is transported (4) food is transported
Ans. (4)
- 120.** Which one of the following plants shows vexillary aestivation and diadelphous stamens?
 (1) Allium cepa (2) Solanum nigrum
 (3) Colchicum autumnale (4) Pisum sativum
Ans. (4)
- 121.** Read the following statements about the vascular bundles:
 (a) In roots, xylem and phloem in vascular bundle are arranged in an alternate manner along the different radii
 (b) Conjoint closed vascular bundles do not possess cambium
 (c) In open vascular bundle cambium is present in between xylem and phloem
 (d) The vascular bundle of dicotyledonous stem possess endarch protoxylem
 (e) In monocotyledonous root, usually there are more than six xylem bundles present
 Choose the correct answer from the option given below:
 (1) (a), (b) (c) and (d) Only
 (2) (a), (c) (d) and (e) Only
 (3) (a), (b) and (c) Only
 (4) (b), (c) (d) and (e) Only
Ans. (4)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555  7340010333  facebook.com/ResonanceEdu  twitter.com/ResonanceEdu  www.youtube.com/resowatch  blog.resonance.ac.in

122. Which one of the following never occurs during mitotic cell division?

- (1) Pairing of homologous chromosomes
- (2) Coiling and condensation of the chromatids
- (3) Spindle fibres attach to kinetochores of chromosome
- (4) Movement of centrioles towards opposite poles

Ans. (1)

123. Given below are statements

Statement I :

Cleistogamous flowers are invariably autogamous

Statement II :

Cleistogamy is disadvantageous as there is no chance for cross pollination

In the light of the above statements, choose the correct answer from the option gives below :

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

Ans. (3)

124. Identify the correct set of statements

- (a) The leaflets are modified into pointed hard thorns in Citrus and Bougainvillea
- (b) Axillary buds form slender and spirally coiled tendrils in cucumber and pumpkin
- (c) Stem is flattened and fleshy in Opuntia and modified to perform the function of leaf
- (d) Rhizophora shows vertically upward growing roots that help to get oxygen for respiration?
- (e) Subaerially growing stems in grasses and strawberry help in vegetative propagation

Choose the correct answer from the options given below :

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

Ans. (1)

125. XO type of sex determination can be found in

- | | |
|------------------|-------------|
| (1) Grasshoppers | (2) Monkeys |
| (3) Drosophila | (4) Birds |

Ans. (1)

126. Hydrocolloid carrageen is obtained from:

- (1) Rhodophyceae only
- (2) Phaeophyceae only
- (3) Chlorophyceae and Phaeophyceae
- (4) Phaeophyceae and Rhodophyceae

Ans. (1)

127. Which of the following is not observed during apoplastic pathway?

- (1) The movement is aided by cytoplasmic streaming
- (2) Apoplast is continuous and does not provide any barrier to water movement.
- (3) Movement of water occurs through intercellular spaces and wall of the cells
- (4) The movement does not involve crossing of cell membrane

Ans. (1)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

128. Given below are two statements: one is labelled as

Assertion (A) and the other is labelled Reason (R)

Statement A:

Polymerase chain reaction is used in DNA amplification

Reason (R): The ampicillin resistant gene is used as a selectable marker to check transformation

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

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

Ans. (4)

129. Which one of the following is not true regarding the release of energy during ATP synthesis through chemiosmosis? It involves:

- (1) Movement of protons across the membrane to the stroma
- (2) Reduction of NADP to NADPH, on the stroma side of the membrane
- (3) Breakdown of proton gradient
- (4) Breakdown of electron gradient

Ans. (4)

130. The flowers are Zygomorphic in:

- (a) Mustard
- (b) Gulmohar
- (c) Cassia
- (d) Datura
- (e) Chilly

Choose the correct answer from the options given below:

- (1) (d), (e) Only
- (2) (c), (d), (e) Only
- (3) (a), (b), (c) Only
- (4) (b), (c) Only

Ans. (4)

131. Given below are two statements:

Statement I :

Mendel studied seven pairs of contrasting traits in pea plants and proposed the Laws of Inheritance

Statement II:

Seven characters examined by Mendel in his experiment on pea plants were seed shape and colour, flower colour, pod shape and colour, flower position and stem height

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

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

Ans. (3)

132. What is the net gain of ATP when each molecule of glucose is converted to two molecules of pyruvic acid ?

- (1) Two
- (2) Eight
- (3) Four
- (4) six

Ans. (2)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

133. Given below are two statements:

Statement I:

Decomposition is a process in which the detritus is degraded into simpler substances by microbes

Statement II:

Decomposition is faster if the detritus is rich in lignin and chitin

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

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

Ans. (3)

Sol.

134. The process of translation of mRNA to proteins begins as soon as

- (1) Both the subunits join together to bind with mRNA
- (2) The RNA is activated and the larger subunit of ribosome encounters RNA
- (3) The small subunit of ribosome encounters mRNA
- (4) The larger subunit of ribosome mRNA

Ans. (3)

135. Which of the following is incorrectly matched?

- (1) Porphyra - Floridian Starch
- (2) Volvox - Starch
- (3) Ectocarpus - Fucoxanthin
- (4) Ulothrix - Mannitol

Ans. (4)

Section B (Biology : Botany)

Section-II Single Choice Type

This section contains **15 Single choice questions**. Each question has 4 choices (1), (2), (3) and (4) for its answer, out of which **Only One** is correct.

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

Assertion (A):

Mendel's law of Independent assortment does not hold good for the genes that are located closely on the same chromosome.

Reason (R):

Closely located genes assort independently.

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

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

Ans. (1)

Resonance Eduventures Ltd.

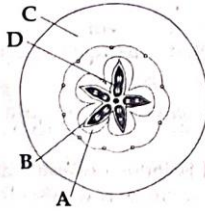
Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | **FAX No.:** +91-022-39167222

To Know more : sms RESO at 56677 | **Website :** www.resonance.ac.in | **E-mail :** contact@resonance.ac.in | **CIN :** U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | **7340010333** | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

137. Which part of the fruit, labelled in the given figure makes it a false fruit?



- (1) C→Thalamus (2) D→Seed (3) A→ Mesocarp (4) B→ Endocarp

Ans. (1)

138. Which one of the following will accelerate phosphorus cycle ?

- (1) Weathering of rocks (2) Rain fall and storms
(3) Burning of fossil fuels (4) Volcanic activity

Ans. (1)

139. The entire fleet of buses in Delhi were converted to CNG from diesel. In reference to this, which one of the following statements is false?

- (1) It is cheaper than diesel
(2) It can not be adulterated like diesel
(3) CNG burns more efficiently than diesel
(4) The same diesel engine is used in CNG buses making the cost of conversion low

Ans. (4)

140. What is the role of large bundle sheath cells found around the vascular bundles in C4 plants?

- (1) To enable the plant to tolerate high temperature
(2) To protect the vascular tissue from high light intensity
(3) To provide the site for photorespiratory pathway
(4) To increase the number of chloroplast for the operation of Calvin cycle

Ans. (1)

141. Transposons can be used during which one of the following?

- (1) Autoradiography (2) Gene sequencing
(3) Polymerase Chain Reaction (4) Gene silencing

Ans. (4)

142. Which of the following occurs due to the presence of autosomal dominant trait?

- (1) Haemophilia (2) Thalassemia
(3) Sickle cell anaemia (4) Myotonic dystrophy

Ans. (4)

143. Match List –I with List –II

List –I

- (a) Metacentric
(b) Acrocentric chromosome
(c) Submetacentric
(d) Telocentric chromosome

List II

- (i) Centromere situated close to the end forming one extremely short and one very long arms
(ii) Centromere at the terminal end
(iii) Centromere in the middle forming two equal arms of chromosomes
(iv) Centromere slightly away from the middle forming one shorter arm and one longer arm

Choose the correct answer from the options given below:

- (1) (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i) (2) (a) – (i), (b) – (ii), (c) – (iii), (d) – (iv)
(3) (a) – (iii), (b) – (i), (c) – (iv), (d) – (ii) (4) (a) – (i), (b) – (iii), (c) – (ii), (d) – (iv)

Ans. (3)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

144. Read the following statements on lipid and find out correct set of statements

- (a) Lecithin found in the plasma membrane is a glycolipid
- (b) Saturated fatty acids possess one or more C=C bonds
- (c) Gingly oil has lower melting point, hence remains as oil in winter
- (d) When fatty acid is esterified with glycerol, monoglycerides are formed

Choose the correct answer from the options given below :

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

Ans. (1)

145. Addition of more solutes in a given solution will:

- (1) make its water potential zero
- (2) not affect the water potential at all
- (3) raise its water potential
- (4) lower its water potential

Ans. (4)

146. Match the plant with the kind of life cycle it exhibits:

List-I

- (a) Spirogyra
- (b) Fern
- (c) Funaria
- (d) Cycas

List-II

- (i) Dominant diploid sporophytes vascular plant, with highly reduced male of female gametophyte
- (ii) Dominant haploid free-living gametophyte called prothallus
- (iii) Dominant diploid sporophyte alternating with reduced gametophyte called prothallus
- (iv) Dominant haploid leafy gametophyte alternating with partially dependent multicellular sporophyte

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) – (iv), (b) – (i), (c) – (ii), (d) – (iii)
- (4) (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i)

Ans. (4)

147. While explaining interspecific interaction of population, (+) sign is assigned for beneficial interaction, (-) sign is assigned for detrimental interaction and (0) for neutral interaction. Which of the following interactions can be assigned (+) for one species and (-) for another species involved in the interaction?

- (1) Commensalism
- (2) Competition
- (3) Predation
- (4) Amensalism

Ans. (3)

148. In the palindromic base sequences of DNA, which one can be cut easily by particular restriction enzyme?

- (1) 5' CTCAGT3'; 3' GAGTCAS
- (2) 5' GTATTC3'; 3' CATAAG5
- (3) 5' GATACT3'; 3' CTATGA5'
- (4) 5' GAATTC3'; 3' CTTAAG5

Ans. (4)

149. If a geneticist uses the blind approach for sequencing the whole genome of an organism, followed by assignment of function to different segments, the methodology adopted by him is called as:

- (1) Expressed sequence tags
- (2) Bioinformatics
- (3) Sequence annotation
- (4) Gene mapping

Ans. (3)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

150. The anatomy of springwood shows some peculiar features. Identify the correct set of statements about springwood.
- It is also called as the early wood
 - In spring season cambium produces xylem elements with narrow vessels
 - It is lighter in colour
 - The springwood along with autumn wood shows alternate concentric rings forming annual rings
 - It has lower density
- Choose the correct answer from the options given below:
- (a), (b) and (d) Only
 - (c) (d), (d) and (e) Only
 - (a), (b), (d) and (e) Only
 - (a), (c), (d) and (e) Only

Ans. (4)

Section A (Biology : Zoology)

Section-I Single Choice Type

This section contains **35 Single choice questions**. Each question has 4 choices (1), (2), (3) and (4) for its answer, out of which **Only One** is correct.

151. Which of the following statements are true for spermatogenesis but do not hold true for Oogenesis ?
- It results in the formation of haploid gametes
 - Differentiation of gamete occurs after the completion of meiosis
 - Meiosis occurs continuously in a mitotically dividing stem cell population
 - It is controlled by the Luteinising hormone (LH) and Follicle Stimulating Hormone (FSH) secreted by the anterior pituitary
 - It is initiated at puberty
- Choose the most appropriate answer from the options given below:
- (b), (d) and (e) only
 - (b), (c) and (e) only
 - (c) and (e) only
 - (b) and (c) only
- Ans. (3)
152. Given below are two statements:
- Statement I:**
Fatty acids and glycerols cannot be absorbed into the blood.
- Statement II:**
Specialized lymphatic capillaries called lacteals carry chylomicrons into lymphatic vessels and ultimately into the blood.
- In the light of the above statements, choose the most appropriate answer from the options given below:
- Statement I is correct but Statement II is incorrect
 - Statement I is incorrect but Statement II is correct
 - Both Statement I and Statement II are correct
 - Both Statement I and Statement II are incorrect
- Ans. (3)
153. Breeding crops with higher levels of vitamins and minerals or higher proteins and healthier fats is called:
- Bio-fortification
 - Bio-accumulation
 - Bio-magnification
 - Bio-remediation
- Ans. (1)
154. In an E.coli strain i gene gets mutated and its product can not bind the inducer molecule. If growth medium is provided with lactose, what will be the outcome?
- z, y, a genes will not be translated
 - RNA polymerase will bind the promoter region
 - Only z gene will get transcribed
 - z, y, a genes will be transcribed
- Ans. (1)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

155. Which of the following is present between the adjacent bones of the vertebral column ?
(1) Areolar tissue (2) Smooth muscle (3) Intercalated discs (4) Cartilage
Ans. (4)
156. Given below are two statements:
Statement 1:
Autoimmune disorder is a condition where body defense mechanism recognizes its own cells as foreign bodies. Statement II:
Rheumatoid arthritis is a condition where body does not attack self cells.
In the light of the above statements, choose the most appropriate answer from the options given below:
(1) Statement I is correct but Statement II is incorrect
(2) Statement I is incorrect but Statement II is correct
(3) Both Statement I and Statement II are correct
(4) Both Statement I and Statement II are incorrect
Ans. (1)
157. At which stage of life the oogenesis process is initiated?
(1) Birth (2) Adult
(3) Puberty (4) Embryonic development stage
Ans. (4)
158. Select the incorrect statement with reference to mitosis:
(1) Chromosomes decondense at telophase.
(2) Splitting of centromere occurs at anaphase.
(3) All the chromosomes lie at the equator at metaphase.
(4) Spindle fibres attach to centromere of chromosomes.
Ans. (4)
159. In-situ conservation refers to:
(1) Conserve only endangered species (2) Conserve only extinct species
(3) Protect and conserve the whole ecosystem (4) Conserve only high risk species
Ans. (4)
160. Which of the following functions is not performed by secretions from salivary glands?
(1) Lubrication of oral cavity (2) Digestion of disaccharides
(3) Control bacterial population in mouth (4) Digestion of complex carbohydrates
Ans. (2)
161. Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R)
Assertion (A):
Osteoporosis is characterised by decreased bone mass and increased chances of fractures.
Reason (R):
Common cause of osteoporosis is increased levels of estrogen.
In the light of the above statements, choose the most appropriate answer from the options given below:
(1) (A) is correct but (R) is not correct
(2) (A) is not correct but (R) is correct
(3) Both (A) and (R) are correct and (R) is the correct explanation of (A)
(4) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
Ans. (1)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in

162. Given below are two statements:

Statement I:

The coagulum is formed of network of threads called thrombins.

Statement II:

Spleen is the graveyard of erythrocytes in the light of the above statements, choose the most appropriate answer from the options given below:

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

Ans. (2)

163. Given below are two statements:

Statement I:

Mycoplasma can pass through less than 1 micron filter size.

Statement II:

Mycoplasma are bacteria with cell wall

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

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

Ans. (1)

164. Tegmina in cockroach, arises from:

- (1) Metathorax -
- (2) Prothorax and Mesothorax
- (3) Prothorax
- (4) Mesothorax

Ans. (4)

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

Assertion (A): All vertebrates are chordates but all chordates are not vertebrates.

Reason (R):

Notochord is replaced by vertebral column in the adult vertebrates

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

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

Ans. (4)

166. Nitrogenous waste is excreted in the form of pellet or paste by:

- (1) Hippocampus
- (2) Pavo
- (3) Ornithorhynchus
- (4) Salamandra

Ans. (2)

167. A dehydration reaction links two glucose molecules to produce maltose. If the formula for glucose is $C_6H_{12}O_6$ then what is the formula for maltose?

- (1) $C_{12}H_{22}O_{11}$
- (2) $C_{12}H_{24}O_{11}$
- (3) $C_{12}H_{20}O_{10}$
- (4) $C_{12}H_{24}O_{12}$

Ans. (1)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in



168. Regarding Meiosis, which of the statements is incorrect?
 (1) Pairing of homologous chromosomes and recombination occurs in Meiosis-I
 (2) Four haploid cells are formed at the end of Meiosis-II
 (3) There are two stages in Meiosis, Meiosis-I and II
 (4) DNA replication occurs in S phase of Meiosis-II
Ans. (4)
169. Under normal physiological conditions in human being every 100 ml of oxygenated blood can deliver _____ ml of O₂ to the tissues.
 (1) 4 ml (2) 10 ml (3) 2 ml (4) 5 ml
Ans. (4)
170. Given below are two statements
Statement I: The release of sperms into the seminiferous tubules is called spermiation.
Statement II: Spermiogenesis is the process of formation of sperms from spermatogonia
 In the light of the above statements, choose the most appropriate answer from the options given below:
 (1) Statement I is correct but Statement II is incorrect
 (2) Statement I is incorrect but Statement II is correct
 (3) Both Statement I and Statement II are correct
 (4) Both Statement I and Statement II are incorrect
Ans. (3)
171. In the taxonomic categories which hierarchical arrangement in ascending order is correct in case of animals?
 (1) Kingdom, Order, Class, Phylum, Family, Genus, Species
 (2) Kingdom, Order, Phylum, Class, Family, Genus, Species
 (3) Kingdom, Phylum, Class, Order, Family, Genus, Species
 (4) Kingdom, Class, Phylum, Family, Order, Genus, Species
Ans. (3)
172. Identify the microorganism which is responsible for the production of an immunosuppressive molecule cyclosporin A:
 (1) *Aspergillus niger* (2) *Streptococcus cerevisiae*
 (3) *Trichoderma polysporum* (4) *Clostridium butylicum*
Ans. (3)
173. Lippe's loop is a type of contraceptive used as:
 (1) Non-Medicated IUD (2) Copper releasing IUD
 (3) Cervical barrier (4) Vault barrier
Ans. (1)
174. If the length of a DNA molecule is 1.1 metres, what will be the approximate number of base pairs?
 (1) 3.3×10^6 bp (2) 6.6×10^6 bp
 (3) 3.3×10^9 bp (4) 6.6×10^9 bp
Ans. (3)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555  7340010333  facebook.com/ResonanceEdu  twitter.com/ResonanceEdu  www.youtube.com/resowatch  blog.resonance.ac.in



175. Detritivores breakdown detritus into smaller particles. This process is called
 (1) Humification (2) Decomposition (3) Catabolism (4) Fragmentation
Ans. (4)
176. Which of the following is not a connective tissue?
 (1) Cartilage (2) Neuroglia (3) Blood (4) Adipose tissue
Ans. (4)
177. Which of the following is a correct match for disease and its symptoms?
 (1) Myasthenia gravis Genetic disorder resulting in weakening and paralysis of skeletal muscle
 (2) Muscular dystrophy - An auto immune disorder causing progressive degeneration of skeletal muscle
 (3) Arthritis - Inflamed joints
 (4) Tetany high Ca^{2+} level causing rapid spasms.
Ans. (4)
178. Which of the following statements with respect to Endoplasmic Reticulum is incorrect?
 (1) In prokaryotes only RER are present (2) SER are the sites for lipid synthesis
 (3) RER has ribosomes attached to ER (4) SER is devoid of ribosomes
Ans. (1)
179. In gene therapy of Adenosine Deaminase (ADA) deficiency, the patient requires periodic infusion of genetically engineered lymphocytes because:
 (1) Lymphocytes from patient's blood are grown in culture, outside the body
 (2) Genetically engineered lymphocytes are not immortal cells
 (3) Retroviral vector is introduced into these lymphocytes.
 (4) Gene isolated from marrow cells producing ADA is introduced into cells at embryonic stages.
Ans. (2)
180. Natural selection where more individuals acquire specific character value other than the mean character value, leads to:
 (1) Disruptive change (2) Random change
 (3) Stabilising change (4) Directional change
Ans. (4)
181. Given below are two statements:
Statement I: Restriction endonucleases recognise specific sequence to cut DNA known as palindromic nucleotide sequence.
Statement II: Restriction endonucleases cut the DNA strand a little away from the centre of the palindromic site. In the light of the above statements, choose the most appropriate answer from the options given below:
 (1) Statement I is correct but Statement II is incorrect
 (2) Statement I is incorrect but Statement II is correct
 (3) Both Statement I and Statement II are correct
 (4) Both Statement I and Statement II are incorrect
Ans. (3)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555  7340010333  facebook.com/ResonanceEdu  twitter.com/ResonanceEdu  www.youtube.com/resowatch  blog.resonance.ac.in

182. If '8' *Drosophila* in a laboratory population of '80' died during a week, the death rate in the population is individuals per *Drosophila* per week.

- (1) 1.0 (2) zero (3) 0.1 (4) 10

Ans. (3)

183. In which of the following animals, digestive tract has additional chambers like crop and gizzard?

- (1) *Catla*, *Columba*, *Crocodylus* (2) *Pavo*, *Psittacula*, *Corvus*
(3) *Corvus*, *Columba*, *Chameleon* (4) *Bufo*, *Balaenoptera*, *Bangarus*

Ans. (3)

184. Identify the asexual reproductive structure associated with *Penicillium*:

- (1) Gemmules (2) Buds (3) Zoospores (4) Conidia

Ans. (4)

185. Which of the following is not the function of conducting part of respiratory system?

- (1) Temperature of inhaled air is brought to body temperature
(2) Provides surface for diffusion of O₂ and CO₂
(3) It clears inhaled air from foreign particles
(4) Inhaled air is humidified

Ans. (2)

Section B (Biology : Zoology)

Section-II

Single Choice Type

This section contains **15 Single choice questions**. Each question has 4 choices (1), (2), (3) and (4) for its answer, out of which **Only One** is correct.

186. Which of the following statements is not true?

- (1) Homology indicates common ancestry
(2) Flippers of penguins and dolphins are a pair of homologous organs
(3) Analogous structures are a result of convergent evolution
(4) Sweet potato and potato is an example of analogy

Ans. (2)

187. Which of the following are not the effects of Parathyroid hormone?

- (a) Stimulates the process of bone resorption
(b) Ca²⁺ level in blood
(c) Reabsorption of Ca²⁺ by renal tubules
(d) Decreases the absorption of Ca²⁺ from digested food
(e) Increases metabolism of carbohydrates

Choose the most appropriate answer from the options given below

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


Ans. (4)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555  7340010333  facebook.com/ResonanceEdu  twitter.com/ResonanceEdu  www.youtube.com/resowatch  blog.resonance.ac.in

- 188.** Select the incorrect statement regarding synapses.
- (1) Chemical synapses use neurotransmitters
 - (2) Impulse transmission across a chemical synapse is always faster than that across an electrical synapse
 - (3) The membranes of presynaptic and postsynaptic neurons are in close proximity in an electrical synapse
 - (4) Electrical current can flow directly from one neuron into the other across the electrical synapse

Ans. (2)

- 189.** Match List-I with List-II with respect to methods of Contraception and their respective actions

List-I	List-II
(a) Diaphragms	(i) Inhibit ovulation and Implantation
(b) Contraceptive Pills	(ii) Increase phagocytosis of sperm within Uterus
(c) Intra Uterine Devices	(iii) Absence of Menstrual cycle Devices and ovulation following parturition
(d) Lactational Amenorrhea	(iv) They cover the cervix blocking the entry of sperms.

Choose the correct answer from the options given below

- (1) (a)-(ii), (b)-(iv), (c) - (i), (d) - (iii)
- (2) (a)-(iii), (b)-(ii), (c)-(i), (d) - (iv)
- (3) (a)-(iv), (b)-(i), (c) - (iii), (d) - (ii)
- (4) (a)-(iv), (b) - (1), (c) - (ii), (d) - (ii)

Ans. (4)

- 190.** Select the incorrect statement with respect to acquired immunity
- (1) Anamnestic response is due to memory of first encounter
 - (2) Acquired immunity is non-specific type of defense present at the time of birth
 - (3) Primary response is produced when our body encounters a pathogen for the first time
 - (4) Anamnestic response is elicited on subsequent encounters with the same pathogen

Ans. (2)

- 191.** Statements related to human Insulin are given below. Which statement(s) is/are correct about genetically engineered Insulin?
- (a) Pro-hormone insulin contain extra stretch of C-peptide
 - (b) A-peptide and B-peptide chains of insulin were produced separately in *E.coli*, extracted and combined by creating disulphide bond between them.
 - (c) Insulin used for treating Diabetes was extracted from Cattles and Pigs
 - (d) Pro-hormone Insulin needs to be processed for converting into a mature and functional hormone
 - (e) Some patients develop allergic reactions to the foreign insulin.

Choose the most appropriate answer from the options given below

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






Ans. (3)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | **FAX No. :** +91-022-39167222

To Know more : sms RESO at 56677 | **Website :** www.resonance.ac.in | **E-mail :** contact@resonance.ac.in | **CIN :** U80302RJ2007PLC024029

Toll Free : 1800 258 5555  **7340010333**  facebook.com/ResonanceEdu  twitter.com/ResonanceEdu  www.youtube.com/resowatch  blog.resonance.ac.in

192. Match List-I with List - II

	List-I (Biological Molecules)		List-II (Biological functions)
(a)	Glycogen	(i)	Hormone
(b)	Globulin	(ii)	Biocatalyst
(c)	Steroids	(iii)	Antibody
(d)	Thrombin	(iv)	Storage product

Choose the correct answer from the options gives below

- (1) (a)-(ii), (b)-(iv), (c) - (iii), (d) - (i) (2) (a)-(iv), (b) - (iii), (c) - (i), (d) - (ii)
 (3) (a)-(iii), (b) - (ii), (c) - (iv), (d)-(i) (4) (a)-(iv), (b)-(ii), (c) - (i), (d) - (iii)

Ans. (2)

193. Which of the following is not a desirable feature of a cloning vector?

- (1) Presence of single restriction enzyme site (2) Presence of two or more recognition sites
 (3) Presence of origin of replication (4) Presence of a marker gene

Ans. (1)

194. Ten *E.coli* cells with ¹⁵N-ds DNA are incubated in medium containing ¹⁴N nucleotide. After 60 minutes, how many *E.coli* cells will have DNA totally free from ¹⁵N?

- (1) 60 cells (2) 80 cells (3) 20 cells (4) 40 cells

Ans. (1)

195. Which one of the following statements is correct?

- (1) Blood moves freely from atrium to the ventricle during joint diastole.
 (2) Increased ventricular pressure causes closing of the semilunar valves.
 (3) The atrio-ventricular node (AVN) generates an action potential to stimulate atrial contraction
 (4) The tricuspid and the bicuspid valves open due to the pressure exerted by simultaneous contraction of the atria.

Ans. (4)

196. The recombination frequency between the genes a & c is 5%, b & c is 15%, b & d is 9%, a & b is 20%, c & d is 24% and a & d is 29%. What will be the sequence of these genes on a linear chromosome?

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

Ans. (2)

197. Which of the following is a correct statement?

- (1) Slime moulds are saprophytic organisms classified under Kingdom Monera.
 (2) Mycoplasma have DNA, Ribosome and cell wall
 (3) Cyanobacteria are a group of autotrophic organisms classified under Kingdom Monera.
 (4) Bacteria are exclusively heterotrophic organisms.

Ans. (3)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 7340010333 facebook.com/ResonanceEdu twitter.com/ResonanceEdu www.youtube.com/resowatch blog.resonance.ac.in

198. Given below are two statements:

Statement I:

In a scrubber the exhaust from the thermal plant is passed through the electric wires to charge the dust particles.

Statement II:

Particulate matter (PM 2.5) can not be removed by scrubber but can be removed by an electrostatic precipitator.

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

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

Ans. (2)

199. If a colour blind female marries a man whose mother was also colour blind, what are the chances of her progeny having colour blindness?

- (1) 75%
- (2) 100%
- (3) 25%
- (4) 50%

Ans. (4)

200. Match List-I with List - II

	List-I (Biological Molecules)		List-II (Biological functions)
(a)	Bronchioles	(i)	Dense Regular Connective Tissue
(b)	Goblet cell	(ii)	Loose Connective Tissue
(c)	Tendons	(iii)	Glandular Tissue
(d)	Adipose Tissue	(iv)	Ciliated Epithelium

Choose the correct answer from the options given below

- (1) (a)-(ii), (b)-(i), (c) - (iv), (d) - (iii)
- (2) (a)-(iii), (b)-(iv), (c) - (ii), (d) - (i)
- (3) (a)-(iv), (b)-(ii), (c) - (i), (d) - (ii)
- (4) (a)-(i), (b)-(ii), (c) - (iii), (d) - (iv)

Ans. (3)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005

Ph. No.: +91-744-2777777, 2777700 | FAX No. : +91-022-39167222

To Know more : sms RESO at 56677 | Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN : U80302RJ2007PLC024029

Toll Free : 1800 258 5555 | 7340010333 | [facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu) | twitter.com/ResonanceEdu | www.youtube.com/resowatch | blog.resonance.ac.in


ADMISSION OPEN

For Class XI & XII Passed Students

Academic Session 2022-23

**ANSWER KEY, DETAILED ANALYSIS
& LIVE PAPER DISCUSSION**
will be available from 17th July (7 pm Onwards)

**695
720**
**AIR
293**
NEET (UG) 2021

KHUSHI LAHOTI
Classroom Student

SCHOLARSHIP UPTO 100%

Based on NEET 2022 Score

Course Starts from

25th July & 01, 08th Aug. 2022

Category Wise Score in NEET 2022			Scholarship (%)	Fee for OFFLINE Classes (Fee: ₹1,15,000/-)*		
GEN / OBC-NCL/ EWS	SC	ST		ARF	Total Fees after S'ship	Fee Benefit
≥ 575	≥ 500	≥ 450	100%	-	29500	85500
≥ 500 to < 574	≥ 450 to < 499	≥ 400 to < 449	90%	20000	38050	76950
≥ 450 to < 499	≥ 400 to < 449	≥ 350 to < 399	80%	20000	46600	68400
≥ 400 to < 449	≥ 375 to < 399	≥ 325 to < 349	70%	20000	55150	59850
≥ 375 to < 399	≥ 350 to < 374	≥ 300 to < 324	60%	20000	63700	51300
≥ 350 to < 374	≥ 325 to < 349	≥ 275 to < 299	50%	20000	72250	42750
≥ 325 to < 349	≥ 300 to < 324	≥ 250 to < 274	40%	20000	80800	34200
All Qualified Students of NEET-2022 in Any Category			30%	20000	89350	25650

include GST

*T & C Apply

Resonance Eduventures Ltd.

Registered & Corporate Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Rajasthan) - 324005

Tel. No.: 0744-2777777, 2777700 | Whatsapp: 73400 10345 | Toll Free: 1800 258 5555 | CIN: U80302RJ2007PLC024029

[facebook.com/ResonanceEdu](https://www.facebook.com/ResonanceEdu)
[instagram.com/resonance_edu](https://www.instagram.com/resonance_edu)
www.youtube.com/resowatch
twitter.com/ResonanceEdu