Sri Chaitanya Educational Institutions | Infinity Learn

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# SRI CHAITANYA STUDENTS BREAK ALL THE RECORDS IN NEET 2024

## 11 STUDENTS SCORING 715 MARKS & ABOVE OUT OF 720 MARKS

ALL INDIA RANK 1

ALL INDIA OPEN CATEGORY RANK

720/720 MARKS

AIR

IRAM QUAZI | Appl. No. 240411319060*

715/720 MARKS

AADARSH SINGH MOYAL
H.T.No. 240410169585

715/720 MARKS

ISHA KOTHARI
H.T.No. 240410220941

715/720 MARKS

GATTU BHANUTEJA SAI
H.T.No. 240410288320

715/720 MARKS

KALYAN V
H.T.No. 240410311464

715/720 MARKS

DARSH PAGHDAR
H.T.No. 240410987668

715/720 MARKS

AMINA ARIF KADIWALA
H.T.No. 240411082313

715/720 MARKS

P. PAVAN KUMAR REDDY
H.T.No. 240411179822

715/720 MARKS

V. MUKHESH CHOWDARY
H.T.No. 240411513902

715/720 MARKS

UJJWAL KUMAR
H.T.No. 240410577616

715/720 MARKS

ADI SETHI
H.T.No. 240410586988

## 32 students scored 710 marks and above out of 720 marks in All India Open Category

716/720 MARKS

PRATYUSH MALAV
APPL. NO. 240410146718*

715/720 MARKS

GVENKATA NRIPESH
APPL. NO. 24041007107

715/720 MARKS

Y RESHMA NYSHITHA
APPL. NO. 240410199984

715/720 MARKS

SURYANDEEP P
APPL. NO. 240410384546*

715/720 MARKS

V SNEHA SWARNIMA
APPL. NO. 240410043051

715/720 MARKS

UDAY KIRAR
APPL. NO. 240410101720*

715/720 MARKS

V SNEHA SWARNIMA
APPL. NO. 240410043051

715/720 MARKS

DRON JAIN
APPL. NO. 240410107006*

715/720 MARKS

GORANTLA LAASYA
APPL. NO. 240410234696

715/720 MARKS

M DINESH BAJAJ
APPL. NO. 240410568263*

715/720 MARKS

PRATHAM BUDHWAR
APPL. NO. 240410001078*

715/720 MARKS

CH SAIPRANAV
APPL. NO. 240410093134

715/720 MARKS

SANVI JAIN
APPL. NO. 240410422262*

715/720 MARKS

TOSHIK JAIN
APPL. NO. 3902030417715*

715/720 MARKS

OM VATS
APPL. NO. 240410500332

715/720 MARKS

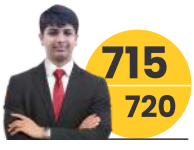
UJJWAL KUMAR
APPL. NO. 240410577616*

715/720 MARKS

SIRIGIRI MOKSHASRI
APPL. NO. 240410626824

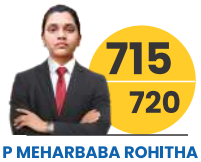
715/720 MARKS

R BHAVITHA
APPL. NO. 240410281775



715/720 MARKS

NEHAL H PRASANNA
APPL. NO. 240410344686



715/720 MARKS

P MEHARBABA ROHITHA
APPL. NO. 240410355154

715/720 MARKS

ANADI SETHI
APPL. NO. 240410586988*

We have **93** Students who scored **700** marks and above

We have **664** Students who scored **650** marks and above

We have **1777** Students who scored **600** marks and above

BELOW 100 ALL INDIA RANKS COUNT **8** RANKS

BELOW 200 ALL INDIA RANKS COUNT **16** RANKS

BELOW 500 ALL INDIA RANKS COUNT **39** RANKS

BELOW 1000 ALL INDIA RANKS COUNT **62** RANKS

Sri Chaitanya Ranks in NEET 2024 ▶ **22,000+**

Sri Chaitanya students who can get medical seats ▶ **9,512+**

Sri Chaitanya
ACADEMY

# NEET – 2025 (Code – 48)

## Topic wise Distribution

### Grade – 11_BOTANY

| S.No. | Chapter Name | No. of Questions |
|---|---|---|
| 1 | Living World | 0 |
| 2 | Biological Classification | 1 |
| 3 | Plant Kingdom | 5 |
| 4 | Morphology of Flowering plants | 2 |
| 5 | Anatomy of Flowering Plants | 1 |
| 6 | Cell: The unit of life | 5 |
| 7 | Cell Cycle and Cell Division | 2 |
| 8 | Photosynthesis in Higher | 2 |
| 9 | Respiration in Plants | 1 |
| 10 | Plant Growth and Development | 2 |

### Grade – 12_BOTANY

| S.No. | Chapter Name | No. of Questions |
|---|---|---|
| 1 | Sexual Reproduction in Flowering Plants | 5 |
| 2 | Principles of Inheritance and Variation | 4 |
| 3 | Molecular Basis of Inheritance | 7 |
| 4 | Microbes in Human Welfare | 4 |
| 5 | Organisms and Populations | 3 |
| 6 | Ecosystem | 3 |
| 7 | Biodiversity and Conservation | 2 |

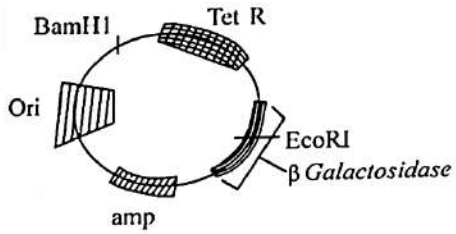
## Grade – 11_ZOOLOGY

| S.No. | Chapter Name | No. of Questions |
|---|---|---|
| 1 | Animal Kingdom | 4 |
| 2 | Structural Organization in Animals | 4 |
| 3 | Biomolecules | 4 |
| 4 | Breathing and Exchange of Gases | 1 |
| 5 | Body Fluids and Circulation | 1 |
| 6 | Excretory Products and Their Elimination | 1 |
| 7 | Locomotion and Movement | 0 |
| 8 | Neural Control and Coordination | 0 |
| 9 | Chemical Coordination and Integration | 3 |

## Grade – 12_ZOOLOGY

| S.No. | Chapter Name | No. of Questions |
|---|---|---|
| 1 | Human Reproduction | 6 |
| 2 | Reproductive Health | 1 |
| 3 | Evolution | 1 |
| 4 | Human Health and Disease | 5 |
| 5 | Biotechnology: Principles and Processes | 6 |
| 6 | Biotechnology and Its Applications | 4 |

## BIOLOGY




91. In the above represented plasmid an alien piece of DNA is inserted at EcoRI site. Which of the following strategies will be chosen to select the recombinant colonies?

(1) White color colonies will be selected.

(2) Blue color colonies grown on ampicillin plates can be selected.

(3) Using ampicillin & tetracyclin containing medium plate.

(4) Blue color colonies will be selected.

**Ans: (1)**

92. The protein portion of an enzyme is called :

(1) Apoenzyme (2) Prosthetic group

(3) Cofactor (4) Coenzyme

**Ans: (1)**

93. Given below are two statements:

**Statement I :** The primary source of energy In an ecosystem is solar energy.

**Starement II :** The rate of production of organic matter during photosynthesis in an ecosystem is called net primary productivity (NPP).

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)**

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

**Assertion (A)** : A typical unfertilised, angiosperm embryo sac at maturity is 8 nucleate and 7−celled.

**Reaton (R):** The egg apparatus has 2 polar nuclei.

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

(1) A is true but R is false

(2) A is false but R is true

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

(4) Both A and R are true but R is NOT the correct explanation of A

**Ans: (1)**

95. Neoplastic characteristics of cells refer to :

A. A mass of proliferating cell

B. Rapid growth of cells

C. Invasion and damage to the surrounding tissue

D. Those confined to original location

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

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

**Ans: (4)**

96. Which one of the following is the characteristic feature of gymnosperms ?

(1) Seeds are absent

(2) Gymnosperms have flowers for reproduction

(3) Seeds are enclosed in fruits.

(4) Seeds are naked.

**Ans: (4)**

97. Match List-I with List-II

| List – I | List – II |
|---|---|
| A. Progesterone | I. Pars intermedia |
| B. Relaxin | II. Ovary |
| C. Melanocyte stimulating hormone | III. Adrenal |
| D. Catecholamines | IV. Corpus luteum |

Choose the correct answer from the options given below :

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

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

**Ans: (3)**

98. Which chromosome in the human genome has the highest number of genes ?

(1) Chromosome 1 (2) Chromosome 10

(3) Chromosome X (4) Chromosome Y

**Ans: (1)**

99. Which of the following statements about RuBisCO s true ?

(1) It is an enzyme involved in the photolysis of water.

(2) It catalyzes the carboxylation of RuBP.

(3) If is active only in the dark.

(4) It has higher affinity for oxygen than carbon dioxide.

**Ans: (2)**

100. The first menstruation is called :

(1) Diapause (2) Ovulation (3) Menopause (4) Menarche

**Ans: (4)**

101. Which of the following genetically engineered organists was used by Eli Lilly to prepare human insulin ?

(1) Virus (2) Phage (3) Bacterium (4) Yeast

**Ans: (3)**

102. 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 vertebrate.

**Reason (R) :** The members of subphylum vertebrata possess notochord during the embryonic period, the notochord is replaced by a cartilaginous or bony vertebral column in adults.

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

(1) A is true but R is false

(2) A is false but R is true

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

(4) Both A and R are true but R is not the correct explanationtof A

**Ans: (3)**

103. What is the main function of the spindle fibers during mitosis ?

(1) To repair damaged DNAK (2) To regulate cell growth

(3) To separate the chromosomes (4) To synthesize new DNA

**Ans: (3)**

104. Match List I with List II :

| **List – I** | | **List – II** | |
|---|---|---|---|
| A | Alfred Hershey and Martha Chase | I | Streptococcus pneumoniae |
| B | Euchromatin | II | Densely packed and dark-stained |
| C | Frederick Griffith | III | Loosely packed and light-stained |
| D | Heterochromatin | IV | DNA as genetic material |

Choose the correct answer from the options given below :

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

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

**Ans: (1)**

105. Match List I with List II.

| **List – I** | **List – II** |
|---|---|
| A. Adenosine | I. Nitrogen base |
| B. Adenylic acid | II. Nucleotide |
| C. Adenine | III. Nucleoside |
| D. Alanine | IV. Amino acid |

Choose the option with all correct matches.

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

**Ans: (1)**

106. In frog, the Renal portal system is a special venous connection that acts to link :

(1) Kidney and intestine
(2) Kidney and lower part of body
(3) Liver and intestine
(4) Liver and kidney

**Ans: (2)**

107. Which of the following are the post– transcriptional events in an eukaryotic cell ?

A. Transport of pre-mRNA to cytoplasm prior to splicing
B. Removal of introns and joining of exons.
C. Addition of methyl group at 5' end of hnRNA.
D. Addition of adenine residues at 3' end of hnRNA.
E. Base pairing of two complementary RNAs.

Choose the correct answer from the options given below :

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

**Ans: (4)**

108. Polymerase chain reaction PCR) amplifies DNA following the equation.

(1) $2n + 1$ (2) $2N^2$ (3) $N^2$ (4) $2^n$

**Ans: (4)**

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

**Assertion (A) :** Both wind and water pollinated flower's are not very colourful and do not produce nectar.

**Reason (R) :** The flowers produce enormous amount of pollen grains in wind and water pollinated flowers.

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

(1) A is true but R is false

(2) A is false butt R is true

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

(4) Both *A* and *R* are true but *R* is NOT the correct explanation of A

**Ans: (4)**

110. Epiphytes that are growing on a mango branch is an example of which of the following?

(1) Predation (2) Amensalism

(3) Commensalism (4) Mutualism

**Ans: (3)**

111. Find the correct statements :

A. In human pregnancy, the major organ systems are formed at the end of 12 weeks.

B. In human pregnancy the major organ systems are formed at the end of 8 weeks.

C. In human pregnancy heart is formed after one month of gestation.

D. In human pregnancy, limbs and digits develop by the end of second month.

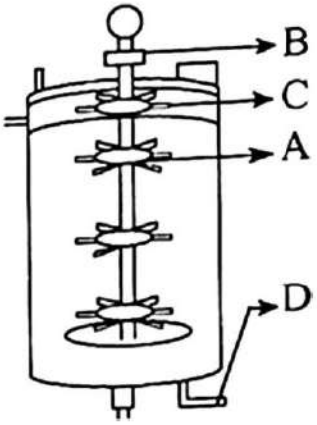
E. In human pregnancy the appearance of hair is usually observed in the fifth month.

Choose the correct answer from the options given below :

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

**Ans: (2)**

112. Identify the part of a bio-reactor which is used as a foam braker from the given figure.




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

**Ans: (2)**

113. Frogs respire in water by skin and buccal cavity and on land by skin, buccal cavity and lungs.

Choose the correct answer from the following :

(1) The statement is false for water but true for land

(2) The statement is false for both the environment

(3) The statement is true for water but false for land

(4) The statement is true for both the environment

**Ans: (1)**

114. Consider the following statements regarding function of adrenal medullary hormones:

A. It causes pupilary constriction

B. It is a hyperglycemic hormone

C. It causes piloerection

D. It increases strength of heart contraction

Choose the correct answer from the options given below

(1) A, C and D Only (2) D Only

(3) C and D Only (4) B, C and D Only

**Ans: (4)**

115. Read the following statements on plant growth and development.

A. Parthenocarpy can be induced by auxins.

B. Plant growth regulators can be involved in promotion as well as inhibition of growth.

C. Dedifferentiation is a pre-requisite for re-differentiations

D. Abscisic acid is ap plant growth promoter.

E. Apical dominance promotes the growth of lateral buds.

Choose the option with all cortes statements.

(1) A, D, E only (2) B, D, E only

(3) A, B, C only (4) A, C, E only

**Ans: (3)**

116. Which of the following hormones released from the pituitary is actually synthesized in the hypothalamus?

(1) Follicle-stimulating hormone (FSH)

(2) Adenocorticotrophic hormone (ACTH)

(3) Luteinizing hormone (LH)

(4) Anti-diuretic hormone (ADH)

**Ans: (4)**

117. Which of the following' is an example of non-distilled alcoholic beverage produced by yeast?

(1) Beer (2) Rum (3) Whisky (4) Brandy

**Ans: (1)**

118. What is the pattern of inheritance for polygenic trait?

(1) Autosomal dominant pattern

(2) X-linked recessive inheritance pattern

(3) Mendelian inheritance pattern

(4) Non-mendelian inheritance pattern

**Ans: (4)**

119. Match List - I with List - II.

| **List – I** | **List – II** |
|---|---|
| A. Head | I. Enzymes |
| B. Middle piece | II. Sperm motility |
| C. Acrosome | III. Energy |
| D. Tail | IV. Genetic material |

Choose the correct answer from the options given below :

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

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

**Ans: (3)**

120. Which of the following is an example of a zygomorphic flower?

(1) Pea (2) Chilli (3) Petunia (4) Datura

**Ans: (1)**

121. Which of following-organisms cannot fix nitrogen?

A. Azotobacter B. Oscillatoria C. Anabaena D. Volvox

E. Nostoc

Choose the correct answer from the options given below:

(1) B only (2) E only (3) A only (4) D only

**Ans: (4)**

122. Which one of the following is an example of ex-situ conservation?

(1) Zoos and botanical gardens (2) Protected areas

(3) National Park (4) Wildlife Sanctus

**Ans: (1)**

123. Who is known as the father of Ecology in India?

(1) Ram Udar (2) Birbal Sahni

(3) S. R. Kashyap (4) Ramdeo Misra

**Ans: (4)**

124. Given below are two statements :

**Statement I** : In the RNA world, RNA is considered the first genetic material evolved to carry out essential life processes. RNA acts as a genetic material and also as a catalyst for some important biochemical reactions in living systems. Being reactive, RNA is unstable.

**Statement II** : DNA evolved from RNA and is a more stable genetic material. Its double helical strands being complementary, resist changes by evolving repairing mechanism.

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 II 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)**

125. Given below are two statements :

**Statement I** : Transfer RNAs and ribosomal RNA do not interact with mRNA.

**Statement II** : RNA interference (RNAi) takes place in all eukaryotic organisms as a method of cellular defence.

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

(1) Statement is correct but Statement II is incorrect

(2) Statement 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)**

126. Match List-I with List-II.

| List – I | List – II |
|---|---|
| A. Heart | I. Erythropoietin |
| B. Kidney | II. Aldosterone |
| C. Gastro-intestinal tract | III. Atrial natriuretic factor |
| D. Adrenal Cortex | IV. Secretin |

Choose the correct answer from the options given below :

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

(3) A–II, B = I ? C–III, D–IV (4) A–IV, B–III, C–II, D–I

**Ans: (2)**

127. All living members of the class Cyclostomata are :

(1) Symbiotic (2) Ectoparasite (3) Free living (4) Endoparasite

**Ans: (2)**

128. Streptokinase produced by bacterium Streptococcus is used for

(1) Liver disease treatment

(2) Removing clots from blood vessels

(3) Curd production

(4) Ethanol production

**Ans: (2)**

129. Role of the water vascular system in Echinoderms is :

A. Respiration and Locomotion

B. Excretion and Locomotion

C. Capture and transport of food

D. Digestion and Respiration

E. Digestion and Excretion

Choose the correct answer from the options given below ?

(1) B and C Only (2) B, D and E Only

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

**Ans: (4)**

130. Match List I with List II.

| **List-I** | **List-II** |
|---|---|
| A. Pteridophyte | I. Salvia |
| B. Bryophyte | II. Ginkgo |
| C. Angiosperm | III. Polytrichum |
| D. Gymnosperm | IV. Salvinia |

Choose the option with all correct matches.

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

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

**Ans: (4)**

131. Which are correct:

A. Computed tomography and magnetic resonance imaging detect cancers of internal organs.

B. Chemotherapeutics drugs are used to kill non-cancerous cells.

C. $\alpha$-interferon activate the cancer patients' immune system and helps in destroying the tumour.

D. Chemotherapeutic drugs are biological response modifiers.

E. In the case of leukaemia blood cell counts are decreased.

Choose the correct answer from the options given below:

(1) C and D only (2) A and C only

(3) B and D only (4) D and E only

**Ans: (2)**

132. What are the potential drawbacks in adoption of the IVF method?

A. High fatality risk to mother

B. Expensive instruments and reagents

C. Husband/wife necessary for being donors

D. Less adoption of orphans

E. Not available in India

F. Possibility that the early embryo does not survive

Choose the correct answer from the options given below :

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

**Ans: (3)**

133. Consider the following :

A. The reductive division for the human female gametogenesis starts earlier than that of the male gametogenesis.

B. The gap between the first meiotic division and the second meiotic division is much shorter for males compared to females.

C. The first polar body is associated with the formation of the primary oocyte.

D. Luteinizing Hormone (LH) surge leads to disintegration of the endometrium and onset of menstrual bleeding.

Choose the correct answer from the options given below :

(1) B and D are true
(2) B and C are true
(3) A and B are true
(4) A and C are true

**Ans: (3)**

134. In bryophytes, the gemmae help in which one of the following?

(1) Nutrient absorption
(2) Gaseous exchange
(3) Sexual reproduction
(4) Asexual reproduction

**Ans: (4)**

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

**Assertion (A):** The primary function of the Golgi apparatus is to package the materials made by the endoplasmic reticulum and deliver it to intracellular targets and outside the cell.

**Reason (R):** Vesticles containing materials made by the endoplasmic reticulum fuse with the cis face of the Golgi apparatus, and they are modified and released from the trans face of the Golgi apparatus.

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

(1) A is true but R is false

(2) *A* is false but *R* is true

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

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

**Ans: (3)**

136. Which one of the following statements refers to Reductionist Biology?

(1) Chemical approach to study and understand living organisms.

(2) Behavioural approach to study and understand living organisms.

(3) Physico-chemical approach to study and understand living organisms.

(4) Physiological approach to study and understand living organisms.

**Ans: (3)**

137. After maturation, in primary lymphoid organs, the lymphocytes migrate for interaction with antigens to secondary lymphoid organ (s) / tissue (s) like:

A. thymus

B. bone marrow

C. spleen

D. lymph nodes

E. Peyer's patches

Choose the correct answer from the options given below:

(1) E, A, B only

(2) C, D, E only

(3) B, C, D only

(4) A, B, C only

**Ans: (2)**

138. Match List I with List II :

| **List – I** | **List – II** |
|---|---|
| A. The Evil Quartet | I. Cryopreservation |
| B. Ex situ conservation | II. Alien species invasion |
| C. Lantana camara | III. Causes of biodiversity losses |
| D. Dodo | IV. Extinction |

Choose the option with all correct matches.

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

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

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

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

**Ans: (4)**

139. How many meiotic and mitotic divisions need to occur for the development of a mature female gametophyte from the megaspore Ends mother cell in an angiosperm plant?

(1) 1 Meiosis and 3 Mitosis
(2) No Meiosis and 2 Mitosis
(3) 2 Meiosis and 3 Mitosis
(4) 1 Meiosis and 2 Mitosis

**Ans: (1)**

140. Which of the following type of immunity is present at the time of birth and is a nonspecific type of defence in the human body?

(1) Cell-mediated Immunity
(2) Humoral Immunity
(3) Acquired Immunity
(4) Innate Immunity

**Ans: (4)**

141. Given below are two statements :

**Statement I :** Fig fruit is a non-vegetarian fruit as it has enclosed fig wasps in it.

**Statement II :** Fig wasp and fig tree exhibit mutual relationship as fig wasp completes its life cycle in fig fruit and fig fruit gets pollinated by fig wasp.

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 4I are correct
(4) Both statement I and statement II are incorrect

**Ans: (1 or 4)**

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

**Assertion (A) :** Cells of the tapetum possess dense cytoplasm and generally have more than one nucleus.

**Reason (R) :** Presence of more than one nucleus in the tapetum increases the efficiency of nourishing the developing microspore mother cells.

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

(1) A is true but R is false

(2) A is false but R is true

(3) Both A and R are true and R is the correct explanation of *A*

(4) Both A and R are true but R is NOT the correct explanation of A

**Ans: (3)**

143. From the statements given below choose the correct option :

A. The eukaryotic ribosomes are 80S and prokaryotic ribosomes are 70S.

B. Each ribosome has two sub-units.

C. The two sub-units of 80S ribosome are 60S and 40S while that of 70S are 50S and 30S.

D. The two sub-units of 80S ribosome are 60S and 20S and that of 70S are 50S and 20S.

E. The two sub-units of 80S are 60S and 30S and that of 70S are 50S and 30S.

(1) A, B, E are true

(2) B, D, E are true

(3) A, B, C are true

(4) A, B, D are true

**Ans: (3)**

144. Which one of the following enzymes contains 'Haem' as the prosthetic group?

(1) Succinate dehydrogenase

(2) Catalase

(3) RuBisCo

(4) Carbonic anhydrase

**Ans: (2)**

145. What is the name of the blood vessel that carries deoxygenated blood from the body to the heart in a frog?

(1) Pulmonary vein

(2) Vena cava

(3) Aorta

(4) Pulmonary artery

**Ans: (2)**

146. Given below are the stages in the life cycle of pteridophytes. Arrange the following stages in the correct sequence.

A. Prothallus stage

B. Meiosis in spore mother cells

C. Fertilisation

D. Formation of archegonia and antheridia in gametophyte.

E. Transfer of antherozoids to the archegonia in presence of water.

Choose the correct answer from the options given below :

(1) D, E, C, A, B

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

(3) B, A, D, E, C

(4) B, A, E, C, D

**Ans: (3)**

147. The blue and white selectable markers have been developed which differentiate recombinant colonies from non-recombinant colonies on the basis of their ability to produce colour in the presence of a chromogenic substrate.

Given below are two statements about this method:

**Statement I:** The blue coloured colonies have DNA insert in the plasmid and they are identified as recombinant colonies.

**Statement II :** The colonies without blue colour have DNA insert in the plasmid and are identified as recombinant colonies.

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)**

148. Which of the following microbes is NOT involved in the preparation of household products?

A. Aspergillus niger

B. Lactobacillus

C. Trichoderma polysporum

D. Saccharomyces cerevisiae,

E. Propionibacterium sharmanii

Choose the correct answer from the options given below:

(1) C and D only

(2) C and E only

(3) A and B only

(4) A and C only

**Ans: (4)**

149. Silencing of specific mRA is possible via RNA because of –

(1) Complementary tRNA

(2) Non-complementary ssRNA

(3) Complementary dsRNA

(4) Inhibitory ssRNA

**Ans: (3)**

150. The complex II of mitochondrial electron transport chain is also known as

(1) Cytochrome c oxidase

(2) NADH dehydrogenase

(3) Cytochrome $bc_1$

(4) Succinate dehydrogenase

**Ans: (4)**

151. While trying to find out the characteristic of a newly found animal, a researcher did the histology of adult animal and observed a cavity with presence of mesodermal tissue towards the body wall but no mesodermal tissue was observed towards the alimentary canal. What could be the possible coelome of that animal?

(1) Schizocoelomate

(2) Spongocoelomate

(3) Acoelomate

(4) Pseudocoelomate

**Ans: (4)**

152. Given below are two statements :

**Statement I :** In a floral formula $\oplus$ stands for zygomorphic nature of the flower, and $\underline{G}$ stands for inferior ovary.

**Statement II :** In a floral formula $\oplus$ stands for actinomorphic nature of the flower and $\underline{G}$ stands for superior ovary.

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 Sand Statement II are incorrect

**Ans: (2)**

153. Given below are two statements:

**Statement I :** In-ecosystem, there is unidirectional flow of energy of sun from producers to consumers.

**Statement II :** Ecosystems are No$^{ot}$ exempted from 2$^{nd}$ law of thermodynamics.

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)**

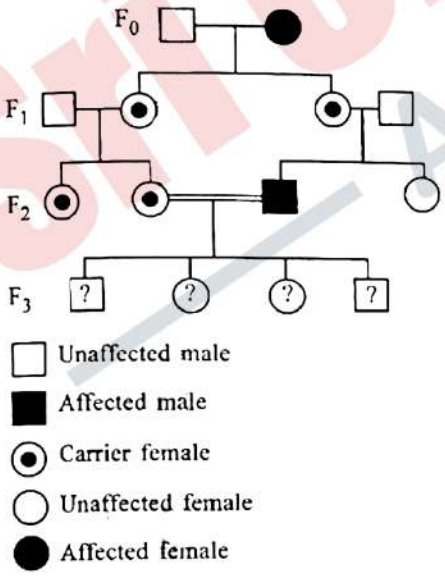
154. Which of the following is the unit of productivity of an Ecosystem?

(1) KCal $m^{-3}$ (2) (KCal $m^{-2}$)$yr^{-1}$

(3) $gm^{-2}$ (4) KCal $m^{-2}$

**Ans: (2)**

155. With the help of given pedigree, find out the probability for the birth of a child having (n) disease and being a carrier (has the disease mutation in one allele of the gene) in $F_3$ generation.




(1) $\frac{1}{8}$ (2) Zero (3) $\frac{1}{4}$ (4) $\frac{1}{2}$

**Ans: (3)**

156. In the seeds of cereals, the outer covering of endosperm separates the embryo by a proteinrich layer called :

(1) Integument
(2) Aleurone layer
(3) Coleoptile
(4) Coleorhiza

**Ans: (2)**

157. Match List I with List II :

| List – I | List – II |
|---|---|
| A. Chlorophyll a | I. Yellow-green |
| B. Chlorophyll b | II. Yellow |
| C. Xanthophylls | III. Blue-green |
| D. Carotenoids | IV. Yellow to Yellow-orange |

Choose the option with all correct matches.

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

**Ans: (4)**

158. Who proposed that the genetic code for amino acids should be made up of three nucleotides?

(1) Jacque Monod
(2) Franklin Stahl
(3) George Gamow
(4) Francis Crick

**Ans: (3)**

159. Histones are enriched with –

(1) Phenylalanine & Leucine
(2) Phenylalanine & Arginine
(3) Lysine & Arginine
(4) Leucine & Lysine

**Ans: (3)**

160. Which of the following enzyme(s) are NOT essential for gene cloning?

A. Restriction enzymes
B. DNA ligase
C. DNA mutase
D. DNA recombinase
E. DNA polymerase

Choose the correct answer from the options given below :

(1) D and E only

(2) B and C only

(3) C and D only

(4) A and B only

**Ans: (3)**

161. A specialised membranous structure in a prokaryotic cell which helps in cell wall formation, DNA replication and respiration is :

(1) Cristae

(2) Endoplasmic Reticulum

(3) Mesosome

(4) Chromatophores

**Ans: (3)**

162. Which factor is important for termination of transcription?

(1) $\rho$ (rho)

(2) $\gamma$ (gamma)

(3) $\alpha$ (alpha)

(4) $\sigma$ (sigma)

**Ans: (1)**

163. Which of the following statement is correct about location of the male frog copulatory pad?

(1) Second digit of fore limb

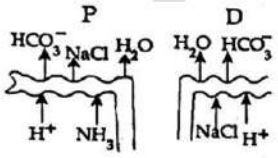
(2) First digit of the fore limb

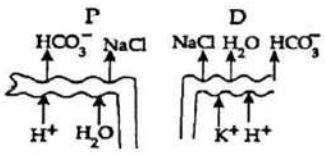
(3) First and Second digit of fore limb

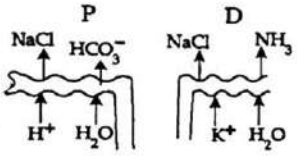
(4) First digit of hind limb

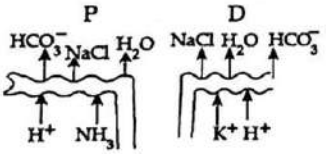
**Ans: (2)**

164. Which of the following diagrams is correct with regard to the proximal (P) and distal (D) tubule of the Nephron.

(1) 


(3) 


(2) 


(4) 


**Ans: (4)**

165. Identify the statement that is NOT correct.

(1) Antigen binding site is located at C-terminal region of antibody molecules.

(2) Constant region of heavy and light chains are located at C-terminus of antibody molecules

(3) Each antibody has two light and two heavy chains.

(4) The heavy and light chains are held together by disulfide bonds.

**Ans: (1)**

166. Match List I with List II :

| **List-I** | **List-II** |
|---|---|
| A. Scutellum | I. Persistent nucellus |
| B. Non-albuminous seed | II. Cotyledon of Monocot seed |
| C. Epiblast | III. Groundnut |
| D. Perisperm | IV. Rudimentary cotyledon |

Choose the option with all correct matches.

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

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

**Ans: (3)**

167. Find the statement that is NOT correct with regard to the structure of monocot stem.

(1) Vascular bundles are conjoint and closed.

(2) Phloem parenchyma is absent.

(3) Hypodermis is parenchymatous.

(4) Vascular bundles are scattered.

**Ans: (3)**

168. Twins are born to a family that lives next door to you. The twins are a boy and a girl. Which of the following must be true?

(1) They were conceived through in vitro fertilization.

(2) They have 75% identical genetic content.

(3) They are monozygotic twins.

(4) They are fraternal twins.

**Ans: (4)**

169. Sweet potato and potato represent a certain type of evolution. Select the correct combination of terms to explain the evolution.

(1) Homology, Convergent (2) Analogy, divergent

(3) Analogy, convergent (4) Homology, divergent

**Ans: (3)**

170. Which one of the following phytohormones promotes nutrient mobilization which helps in the delay of leaf senescence in plants?

(1) Gibberellin (2) Cytokinin

(3) Ethylene (4) Abscisic acid

**Ans: (2)**

171. Why can't insulin be given orally to diabetic patients?

(1) Because of structural variation

(2) Its bioavailability will be increased

(3) Human body will elicit strong immune response

(4) It will be digested in Gastro-Intestinal (GI) tract

**Ans: (4)**

172. Name the class of enzyme that usually catalyze the following reaction:

$S - G + S^{\#} \rightarrow S + S^{\#}G$

Where, G → a group other than hydrogen

S → a substrate

$S^{\#}$ → another substrate

(1) Transferase (2) Ligase (3) Hydrolase (4) Lyase

**Ans: (1)**

173. Given below are two statements :

**Statement I :** The DNA fragments extracted from gel electrophoresis can be used in construction of recombinant DNA.

**Statement II :** Smaller size DNA fragments are observed near anode while larger fragments are found near the wells in an agarose gel.

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 1 and statement II are correct

(4) Both statement I and statement II are incorrect

**Ans: (3)**

174. The correct sequence of events in the life cycle of bryophytes is

A. Fusion of antherozoid with egg.

B. Attachment of gametophyte to substratum.

C. Reduction division to produce haploid spores.

D. Formation of sporophyte.

E. Release of antherozoids into water.

Choose the correct answer from the options given below:

(1) B, E, A, D, C

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

(3) D, E, A, C, B

(4) B, E, A, C, D

**Ans: (1)**

175. Genes *R* and *Y* follow independent assortment. If RRYY produce round yellow seeds and try produce wrinkled green seeds, what will be the phenotypic ratio of the F 2 generation?

(1) Phenotypic ratio – 9 : 3 : 3 : 1

(2) Phenotypic ratio - 9 : 7

(3) Phenotypic ratio -1 : 2 : 1

(4) Phenotypic ratio - 3 : 1

**Ans: (1)**

176. Each of the following characteristics represent a Kingdom proposed by Whittaker. Arrange the following in increasing order of complexity of body organization.

A. Multicellular heterotroph with cell wall made of chitin.

B. Heterotroph with tissue/organ/organ system level of body organization.

C. Prokaryotes with cell wall made of polysaccharides and amino acids.

D. Eukaryotic autotrophs with tissue/organ level of body organization.

E. Eukaryotes with cellular body organization.

Choose the correct answer from the options given below :

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

(3) A, C, E, B, D (4) C, E, A, D, B

**Ans: (4)**

177. Match List - I with List - II.

| **List-I** | **List-II** |
|---|---|
| A. Centromere | I. Mitochondrion |
| B. Cilium | II. Cell division |
| C. Cristae | III. Cell movement |
| D. Cell membrane | IV. Phospholipid Bilayer |

Choose the correct answer from the options given below :

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

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

**Ans: (2)**

178. Which one of the following equations represents the Verhulst-Pearl Logistic Growth of population?

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

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

**Ans: (4)**

179. Match List - I with List - II.

| **List – I** | **List – II** |
|---|---|
| A. Emphysema | I. Rapid spasms in muscle due to low $Ca^{++}$ in body fluid |
| B. Angina Pectoris | II. Damaged alveolar walls and decreased respiratory surface |
| C. Glomerulonephritis | III. Acute chest pain when not enough oxygen is reaching to heart muscle |
| D. Tetany | IV. Inflammation of glomeruli of kidney |

Choose the correct answer from the options given below :

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

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

**Ans: (2)**

180. Cardiac activities of the heart are regulated by:

A. Nodal tissue

B. A special neural centre in the medulla oblongata

C. Adrenal medullary hormones

D. Adrenal cortical hormones

Choose the correct answer from the options given below :

(1) A, C and D Only (2) A, B and D Only

(3) A, B and C Only (4) A, B, C and D

**Ans: (3)**