

Class : 11

Register Number							
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FIRST REVISION EXAMINATION - JANUARY - 2025

Time Allowed : 3.00 Hours]

BIOLOGY

Part - I (Bio-Botany) (Marks : 35)

Section - I

[Max. Marks : 70

Note. (i) Answer All the questions. akwaacademy.blogspot.com

8×1=8

(ii) Choose the most appropriate answer from the given four alternatives and write the option code and corresponding answer.

- Crossing over takes place inthe stage of meiosis I Prophase
 - Zygotene
 - Pachytene
 - Diplotene
 - Diakinesis
- In cell A the solute potential is -5 , pressure potential 2
In cell B the solute potential is -10 pressure potential 8.
In cell C the solute potential - 6 , pressure potential 5 find the path of water across the root cell
 - A - C - B
 - A - B - C
 - B - C - A
 - C - B - A
- Assertion :** Cellulose is an monosaccharides.
Reason : cellulose is not built from repeated units of glucose monomer.
 - Both Assertion and reason are correct
 - Assertion is incorrect reason is correct
 - Assertion is correct reason is incorrect
 - Both assertion and reason are incorrect
- The haploid number of chromosome for an angiosperm is 28, the number of chromosome in its endosperm would be...
 - 84
 - 56
 - 28
 - 14
- Select the incorrectly matched pair.
 - Thyrus - Ocimum
 - Umbel - Allium cepa
 - Spikelet - Paddy
 - Polychasial cyme- Daucas carota
- The two sub units of ribosomes remain United at critical ion level of..
 - Magnesium
 - sodium
 - ferrous
 - Mn
- Which are considered as "Biological puzzle"...
 - Fungi
 - virus
 - algae
 - bacteria
- Which one of the following hormone involved in ripening of fruits.
 - Ethylene
 - auxin
 - cytokinin
 - ABA

SECTION - II

II. Answer any four of the following.

4×2=8

- Define Bolting.
- What is meant by Respiratory Quotient?
- Name the types of chromosomes based on the position of centromere.
- Mention the different types of plasmolysis seen in plant cells.
- What is virion?
- What is meant by Binomial nomenclature? Give example.

SECTION - II

III. Answer any three questions. Question number 19 is compulsory.

- Name any two Agar yielding plant.
- Explain partial parasite with example.
- Differentiate cyclic photophosphorylation from non cyclic photophosphorylation.
- Compare Gymnosperm with Angiosperm.
- Write the Steps involved in Gram Staining .

2×5=10

SECTION - IV

IV. Answer all the questions.

- (a) Write the physiological effects of cytokinins. (OR)
- (b) Explain the different types of fleshy fruits.
- (a) Differentiate between Dicot stem & monocot stem. (OR)
- (b) Write the schematic representation of kreb's cycle.

PART - II (BIO-ZOOLOGY) (Max. Marks: 35)

SECTION - I

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8x1=8

1. Choose the correct answer.
- Which one of the following is not a character of chordate?
 - They are bilaterally symmetrical, triploblastic & Coelomate animals.
 - In higher chordates notochord is replaced by vertebral column.
 - In terrestrial chordates functional gill clefts are present.
 - Heart is ventrally placed
 - Buccopharyngeal respiration in frog
 - is increased when nostrils are closed
 - Stops when there is pulmonary respiration
 - is increased when it is catching fly
 - Stops when mouth is open
 - Assertion (A): Large intestine is also having villi like small intestine.
Reason (R) : Absorption of water takes place in large intestine.
 - Both (A) & (R) are true & (R) explains (A)
 - Both (A) & (R) are true & (R) does not explain (A)
 - Both (A) & (R) are false
 - (A) is false but (R) is true
 - Column I represents diseases & column II represents their symptoms. Choose the correctly paired option.

Column I	Column II
P) Asthma	(i) Recurring of bronchitis
Q) Emphysema	(ii) Accumulation of WBC in alveolus
R) Pneumonia	(iii) Allergy

 - P - (iii), Q - (ii), R - (i)
 - P - (iii), Q - (i), R - (ii)
 - P - (ii), Q - (iii), R - (i)
 - P - (ii), Q - (i), R - (iii)
 - Which is not correct for sponges?
 - Internal fertilization
 - Hermaphrodites
 - Gemmule formation
 - External fertilization
 - If Henle's loop were absent from mammalian nephron, which one of the following is to be expected?
 - There will be no urine formation
 - There will be hardly any changes in the quality & quantity of urine formed.
 - The urine will be more concentrated
 - The urine will be more diluted
 - The abundant intracellular cation is
 - H⁺
 - K⁺
 - Na⁺
 - Ca⁺⁺
 - Silk is obtained from
 - Laccifer lacca
 - Nosema bombycis
 - attacus ricni
 - Attacus mylitta

SECTION - II

II. Answer any Four questions:

4x2=8

- Compare Schizocoelom with enterocoelom.
- What are the components of blood of frog?
- Write the peculiar characters of Duck.
- What is the role of Charles Darwin in relation to concept of species?
- List out the different types of WBC.
- Comment on Homeostasis.

SECTION - III

3x3=9

- III. Answer any three of the following questions. Question Number 19 is compulsory.
- Differentiate white adipose tissue from brown adipose tissue.
 - Write a note on nitrogen narcosis.
 - Draw the structure of a nerve cell and label the parts.
 - Write the nutritive value of fish.
 - Name the layers of adrenal cortex & mention their secretion.

SECTION - IV

IV. Answer the Questions .

2x5=10

- Write the characteristic features of Arthropoda. (OR)
 - Describe the structure of the human heart with the help of a diagram.
- Draw the diagram of L.S. of the eye and label the parts. (OR)
 - Explain the life cycle of Bombyx mori.