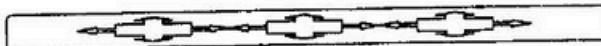


Biology	(C)	L.K.No. 1116	Paper Code No. 6465
Paper I	(Objective Type)	Inter -A- 2019	(New Pattern)
Time :	20 Minutes	Inter (Part - I)	
Marks :	17	Session (2015 -17) to (2018 - 20)	

Note : Four possible choices A, B, C, D to each question are given. Which choice is correct fill that circle in front of that Question No. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

- o.1 pH value of 7.60 is optimum for enzyme :  
(A) Arginase (B) Enterokinase (C) Catalase (D) Sucrase
- ) Amount of Solar Energy required to synthesize 10 g of Glucose is :  
(A) 617.6 K cal (B) 717.6 K cal (C) 817.6 K cal (D) 917.6 K cal
- ) Population of different species living in the same Habitat form :  
(A) Community (B) Population (C) Biome (D) Biosphere
- ) Sedimentation rate of Eukaryotic Ribosome is : (A) 30 S (B) 50 S (C) 70 S (D) 80 S
- ) Apicomplexans move by : (A) Cilia (B) Flagella (C) Flexing (D) Tube Feet
- ) Which is anaerobic bacterium :  
(A) E. Coli (B) Spirochete (C) Pseudomonas (D) Campylobacter
- ) Which is organelle of symbiotic origin :  
(A) Mitochondria (B) Vacuole (C) Cell Membrane (D) Cell Wall
- i) Poisonous Mushrooms are called : (A) Mushrooms (B) Morels (C) Truffles (D) Toad Stool
- i) In birds, the organ of voice is called : (A) Pharynx (B) Larynx (C) Syrinx (D) Vocal Cords
- 0) Mollusca has a respiratory pigment of blue colour, called :  
(A) Haemoerythrin (B) Haemocyanin (C) Haemoglobin (D) Myoglobin
- 1) Sweet Pea belongs to which family :  
(A) Fabaceae (B) Rosaceae (C) Solanaceae (D) Poaceae
- 2) Plastocyanin protein contains : (A) Magnesium (B) Iron (C) Potassium (D) Copper
- 3) Blood is not involved in transport of gases in : (A) Frog (B) Fish (C) Insects (D) Man
- 4) Volume of Dry seed may increase upto 200 times after absorbing water by :  
(A) Diffusion (B) Osmosis (C) Active Transport (D) Imbibition
- 5) Breaking of Terminal Phosphate of ATP releases energy of about :  
(A) 7.3 K cal (B) 6.5 K cal (C) 4.5 K cal (D) 3.7 K cal
- 6) Tentacles are characteristic of : (A) Amoeba (B) Hydra (C) Euglena (D) Snail
- 7) Single Circuit Heart is present in : (A) Fishes (B) Amphibians (C) Reptiles (D) Mammals

B



Roll No.	1116 - 24000	Session (2015 - 17) to (2018 - 20)	Inter (Part - I)
Biology (Subjective)	Inter - A - 2019	Time 2:40 Hours Marks : 68	(New Pattern)

Note: It is compulsory to attempt any (8 - 8) Parts each from Q.No. 2, Q.No.3 and attempt any (6) Parts from Q.No.4. Attempt any (3) Questions from Part - II. Write same Question No. and its Part No. as given in the Question Paper.

Make Diagram where necessary.

Part - I

22 x 2 = 44

- (i) Differentiate between Amylose and Amylopectin.
- (ii) What are Competitive and Non-Competitive Inhibitors?
- (iii) How temperature affects rate of Enzyme Action?
- (iv) What Lock and Key Model says about Substrate Enzyme Interaction?
- (v) Differentiate between Plasmogamy and Karyogamy.
- (vi) What is Dikaryotic Hyphae and how it is formed?
- (vii) What are Beneficial Insects?
- (viii) Write three basic characters of all Chordates.
- (ix) What are Marsupials?
- (x) Give functions of Swim Bladder and sources of Gases in it.
- (xi) Define Calvin Cycle.
- (xii) What happens to Pyruvic Acid before entering into Krebs's Cycle?

- (i) Differentiate between Inductive and Deductive Reasoning.
- (ii) Define Social Biology.
- (iii) Differentiate between Microtubules and Microfilaments.
- (iv) What is Cell Fractionation?
- (v) What are Choanoflagellates?
- (vi) How are Limestone deposits formed?
- (vii) Give habitat of Algae.
- (viii) What is Conjugation?
- (ix) Differentiate between Antheridiophores and Archegoniophores.
- (x) Give two important features of Lycopsidea.
- (xi) What is the cause of Cyanosis?
- (xii) What are Lymph Nodes?

4. (i) Describe rules of Binomial Nomenclature.
- (ii) What is Hormogonia?
- (iii) What is Appendicitis?
- (iv) What is the cause of Constipation?
- (v) Enlist most obvious functions of Oral Cavity.
- (vi) How the body of Earthworm is kept moist?
- (vii) What are Spiracles?
- (viii) Enlist properties of Respiratory Surfaces in animals.
- (ix) Describe the role of Mitochondria in Photorespiration.

Part - II

- o.5 (a) Describe the role of Biology in the field of Food Production. (4)
- (b) Enlist any eight functions of Blood. (4)
- o.6 (a) Describe importance of Water by discussing its various properties. (4)
- (b) Discuss various methods of Nutrition in Fungi. (4)
- o.7 (a) Discuss the Habitat, Structure and Reproduction of Nostoc in detail. (4)
- (b) Discuss the Life Cycle of Adiantum. (4)
- o.8 (a) Define Binomial Nomenclature. Give its rules and why it is needed? (4)
- (b) Explain Electron Transport Chain in Mitochondria. (4)
- o.9 (a) Explain Structure of Plasma Membrane. (4)
- (b) Describe Digestion in Amoeba. (4)

B

