

SWL-18

Biology (New Scheme)

(INTERMEDIATE PART-I) (II)

Paper : I

Time: 20 Minutes

Academic Session 2017 - 2019

Marks : 17

**OBJECTIVE**

**Code: 6463**

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

- i. The open circulatory system is present in  
 (A) periplaneta (B) pheretima (C) Rana tigrina (D) Amphioxus
- ii. Water potential of pure water is:  
 (A) less than zero (B) more than zero (C) equal to zero (D) equal to one
- iii. Respiratory organs in fish are  
 (A) lungs (B) gills (C) skin (D) Fins
- iv. Accumulation of bile in blood causes the condition called:  
 (A) constipation (B) ulcer (C) jaundice (D) piles
- v. First action spectrum was obtained by  
 (A) T.W . Engelmann (B) Van neil (C) Malvin Calvin (D) Ernst Haeckel
- vi. Pyruvic acid is produced as a result of  
 (A) krebs cycle (B) citric acid cyle (C) respiratory chain (D) glycolysis
- vii. The largest invertebrate is:  
 (A) earth worm (B) star fish (C) giant squid (D) ascarus
- viii. Mammals have only:  
 (A) right arotic arch (B) left arotic arch (C) both left and right arotic arches (D) no arotic arch
- ix. Saccharomyces cerevisiae is a  
 (A) Yeast (B) Algae (C) Bacterium (D) Protozone
- x. A monoecious plant is that in which:  
 (A) male and female sex organs on same plant (B) male and female sex organs on different plants  
 (C) only has male sex organ (D) only has female sex organ
- xi. Conjugation in bacteria is promoted by the structure:  
 (A) Flagella (B) Pili (C) Cillia (D) Spores
- xii. Which one is microaerophilic bacterium?  
 (A) campylobacter (B) spirochet (C) mycoplasma (D) vibrio Comma
- xiii. Which one is an insect?  
 (A) Hag fish (B) Cuttle fish (C) Silver fish (D) Star fish
- xiv. Proteins are synthesized by  
 (A) polysome (B) nucleosome (C) lysosome (D) ribosome
- xv. If protein part of co-factor is covalently bonded to enzyme, it is called as  
 (A) co-enzyme (B) prosthetic group (C) activator (D) apoenzyme
- xvi. Chemical nature of most cellular secretions is  
 (A) proteins (B) lipids (C) carbohydrates (D) glycoproteins
- xvii. The most recent era is  
 (A) Paleozoic (B) Cenozoic (C) Mesozoic (D) Protozoic

Biology (New Scheme) (INTERMEDIATE PART - I)  
Time : 2 : 40 Hours Academic Session 2017 - 2019

Paper : I  
Marks : 68

**SUBJECTIVE**

Note :- Section I is compulsory. Attempt any three (3) questions from Section II.

**(Section - I)**

**2. Write short answers to any Eight Parts. (8 x 2 = 16)**

- i. What is the difference between deductive reasoning and inductive reasoning?
- ii. What is hydroponic culture technique?
- iii. What are obligate intracellular parasites?
- iv. What is lock and key model? Who proposed it?
- v. Define co-factor. What is its function?
- vi. Differentiate between activator and coenzyme.
- vii. Name three sub classes of mammalia.
- viii. Give beneficial effects of insects.
- ix. Give some uses of shells of mollusca.
- x. Define metamorphosis.
- xi. What is histoplasmosis?
- xii. Differentiate between conidia and spores.

**3. Write short answers to any Eight parts. (8 x 2 = 16)**

- i. Differentiate between spore and cyst.
- ii. Write two main characteristics of ciliates.
- iii. Write two characters of giant amoeba.
- iv. Give the ecological importance of dinoflagellates.
- v. What are foraminiferans? Give their importance.
- vi. Name living and extinct representatives of psilopsida.
- vii. What are accessory pigments? Give two examples.
- viii. Differentiate between essential and non essential parts of a flower.
- ix. What is Rubisco? Write down its function.
- x. Differentiate between bolus and chyme.
- xi. Give the composition of saliva.
- xii. What is botulism? Give its cause.

**4. Write short answers to any Six parts. (6 x 2 = 12)**

- i. What are conjugated molecules? Give example.
- ii. Write down functions of SER.
- iii. Write down salient features of "Cell Theory".
- iv. What is photorespiration? Give its products.
- v. What is respiratory distress syndrome?
- vi. Write down properties of respiratory surfaces in animals.

**(Turn Over)**