

Roll No. \_\_\_\_\_ Annual 2016

**Biology** (INTERMEDIATE PART I)-(I) **Paper: I**

**Time: 20 Minutes** **Academic Session 2015 – 2017** **Marks: 17**

**OBJECTIVE****Code: 6461**

**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.

1. The tentative explanation of observation is called  
(A) Hypothesis (B) Deduction (C) Theory (D) Law
2. Which one of following is not a Lipid?  
(A) Rubber (B) Chitin (C) Cutin (D) Cholesterol
3. The optimum pH of Enterokinase is;  
(A) 1.50 (B) 3.50 (C) 5.50 (D) 7.50
4. The fluid which surrounds the thylakoids is called  
(A) Matrix (B) Stroma (C) Cytoplasm (D) Nucleoplasm
5. The common name of *Allium cepa* is  
(A) Onion (B) Tomato (C) Amaltas (D) Potato
6. Which one of following is not found in all bacteria?  
(A) Cell membrane (B) Ribosome (C) Nucleoid (D) Capsule
7. The sexual process is exhibited by most ciliates by  
(A) Binary fission (B) Budding (C) Conjugation (D) Fertilization
8. Brush-like arrangement of its conidia is characteristic of  
(A) Rhizopus (B) *Penicillium* (C) *Ustilago* (D) *Agaricus*
9. Horsetail belongs to subdivision:  
(A) Lycopsidea (B) Psilopsida (C) Sphenopsida (D) Pteropsida
10. Metamerically segmentation are found in phylum,  
(A) Annelida (B) Porifera (C) Protozoa (D) Nematoda
11. Excretory organ in Annelida are  
(A) Nephridia  
(B) Flame cell  
(C) Nephron  
(D) Malpighian tubule
12. Magnesium of chlorophyll is replaced in haemoglobin by  
(A) Calcium (B) Phosphorous (C) Potassium (D) Iron
13. The amount of glucose converted into ATP during anaerobic respiration is  
(A) 4 % (B) 3 % (C) 2 % (D) 1 %
14. Dipeptides are broken down into amino acid by  
(A) Erypsin (B) Pepsin (C) Trypsin (D) Lipase
15. Lungs are covered with double membrane sacs called  
(A) Pleura (B) Scrotum (C) Pericardium (D) Diaphragm
16. The plasma proteins constitute \_\_\_\_\_ % by weight  
(A) 9-11% (B) 11-12% (C) 13-15% (D) 7-9%

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17. Blood platelets are fragments of large cell called

(A) Leucocyte

(B) Megakaryocyte

(C) Erythrocyte

(D) Granulocyte

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**Biology****(INTERMEDIATE PART I)-(I)****Paper: I****Time: 2 : 40 Minutes****Academic Session 2015 – 2017****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.****(8x2 = 16)**

- i. Differentiate the micromolecules and macromolecules,
- ii. Define ecology and histology
- iii. What is NAD?
- iv. Define apoenzyme and co-factor.
- v. Give the optimum pH values of enzyme pepsin and pancreatic lipase.
- vi. How many regions are present in active site?
- vii. From where do giant amoebas get energy?
- viii. What are choanoflagellates?
- ix. Name the nuclei of ciliates.
- x. Name the causal organisms of Irish potato.
- xi. How do the fungi resemble animals?
- xii. What is histoplasmosis?

**3. Write short answers to any Eight parts.****(8x2 = 16)**

- i. Give chemical composition of primary and secondary cell wall.
- ii. Why is mitochondrion called self-replicating organelle?
- iii. Give two basic features of chordates.
- iv. What is polymorphism?
- v. What is mantle?
- vi. Give two differences between diploblastic and triploblastic animals.
- vii. What is a photosystem? Name its two parts or components.
- viii. What is alcoholic fermentation?
- ix. Give composition of inhaled and exhaled (breathed) air.
- x. What is respiratory distress syndrome?
- xi. Give one difference between alveoli and parabronchi.
- xii. What is pleura?

**4. Write short answers to any Six parts.****(6x2 = 12)**

- i. What are capsomeres and what is their number in adenovirus?
- ii. What are plasmids?
- iii. Define phylogenetic system of classification.
- iv. Differentiate between microphyll and megaphyll leaves.
- v. What is appendicitis?
- vi. What are gastric glands?
- vii. Tubular digestive system is more efficient than sac like. Give reason.
- viii. Define immunity

ix. What is single circuit heart?

## **Section - II**

**Note: Attempt any three (3) questions from Section 11.**

**(3x8 = 24)**

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|----|--|---|
| 5. | (a) Write a note on phyletic lineage.                                      | 4 |
|    | (b) Describe the significance of alternation of generation.                | 4 |
| 6. | (a) Describe fibrous and globular proteins.                                | 4 |
|    | (b) Give on account of digestion in cockroach                              | 4 |
| 7. | (a) Describe the structure and function of plasma membrane.                | 4 |
|    | (b) Give the different modes of nutrition in fungi.                        | 4 |
| 8. | (a) Describe various steps of lytic cycle of phage virus. (Bacteriophage). | 4 |
|    | (b) Describe water as important reactant of photosynthesis.                | 4 |
| 9  | (a) Write a comprehensive note on nutrition of bacteria.                   | 4 |
|    | (b) Write a note on functions of blood                                     | 4 |

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