

<b>BIOLOGY (Fresh) Part-I</b> Time: 20 Minutes Multiple Choice Questions 01 Mark for each	<b>Part-I</b> Marks: 18	Paper Code ① ② <input checked="" type="radio"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Roll No. of the Student</td> <td style="width: 5%;"> </td> <td style="width: 5%;"> </td> <td style="width: 5%;"> </td> <td style="width: 5%;"> </td> <td style="width: 5%;"> </td> <td style="width: 5%;"> </td> <td style="width: 5%;"> </td> </tr> <tr> <td colspan="8">Serial No. Of the Answer Book _____</td> </tr> </table>	Roll No. of the Student								Serial No. Of the Answer Book _____							
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Note:

- 1) Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.
- 2) Fill the circle (A) (B) (C) (D), which one is correct with blue or black ball point, in this sheet as well as in separate OMR Sheet like
- 3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

### SECTION-A

1. Which group of carbohydrate are insoluble in water ?  
 A Monosaccharides     B Oligosaccharides     C Polysaccharides     D None of these
2. Archea and bacteria do not share the following characteristic except \_\_\_\_\_  
 A Cell wall constitution     B Ribosomal RNA     C Autotrophy     D Chemical composition of membrane
3. In plants chloroplasts are present only in mesophyll cells of leaf \_\_\_\_\_  
 A Non Vascular     B C<sub>4</sub>     C C<sub>3</sub>     D None of these
4. Associated with every sieve tube is thin walled elongated is \_\_\_\_\_  
 A Tracheids     B Vessel     C Companion cell     D None of these
5. Compound formed in an organism for inhibiting growth of another organism is \_\_\_\_\_  
 A Antigen     B Antibiotic     C Antibody     D Antiallergic
6. The inflorescence of carrot is called \_\_\_\_\_  
 A Corymb     B Caktin     C Umbel     D Panocle
7. In respiratory pigment of mollusk is \_\_\_\_\_  
 A Hemoglobin     B Haemocyanin     C Petidoglycan     D All of these
8. In nuclear mitosis in fungi, the nuclear membrane \_\_\_\_\_  
 A Fues with genetical material     B Remains intact     C Shrinks     D Dissolves
9. Which of the following is the most effective antibiotic against most viral infections?  
 A Penicillin     B Erythromycin     C Zanax     D None of these
10. An example of competitive inhibitor is \_\_\_\_\_  
 A Cyanide     B Sulphonamide     C Lipase     D Heavy metals
11. The largest and the most conspicuous structure or cell organelle is \_\_\_\_\_  
 A Mitochondria     B Ribosome     C Chloroplast     D Nucleus
12. Which bacteria produce highly resistant structure called endospores?  
 A Gram positive     B Gram negative     C Proteo bacteria     D All of these
13. The inflorescence of mulberry and willow is called \_\_\_\_\_  
 A Catkin     B Corymb     C Umbel     D Panicle
14. Ebner's gland are found on the dorsal surface of \_\_\_\_\_  
 A Tongue     B Stomach     C Liver     D Intestine
15. Gastro vascular cavity of coelenterates performs following functions \_\_\_\_\_  
 A Digestion     B Excretion     C Respiration     D All of these
16. Which vaccine is used against polio?  
 A BCG     B Sabin     C Toroid     D None of these
17. Example of long day plant is \_\_\_\_\_  
 A Dahlia     B Soya bean     C Tomato     D Potato
18. A group of ribosomes attached to mRNA are called \_\_\_\_\_  
 A Mesosomes     B Monosomes     C Polysomes     D Disomes

## BIOLOGY (Fresh) Part-I

Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION "B"

Marks: 40

II. Attempt any TEN Parts out of the following. Each Part carries equal marks.

- i. Write note on Ribosomes.
- ii. What are metal activators? Give three examples.
- iii. Define Inhibitors and write its type.
- iv. Write note on Photorespiration.
- v. Write note on Tuberculosis.
- vi. Discuss the evolution of leaf.
- vii. Describe the Chloroplast in spirogyra.
- viii. Write the general character of phylum Porifera.
- ix. Discuss the Autonomic movements of plants.
- x. What do you mean by physical digestion?
- xi. What are the functions of blood?
- xii. What are the roles of Macrophages?
- xiii. List the adaptation in plants to cope with low temperature.

SECTION "C"

Marks: 27

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

- III. Describe the life cycle of *Phytophthora infestans*.
- IV. Describe the mode of nutrition in bacteria.
- V. Describe the structure and function of Pancreas.
- VI. Write short note on the following:
  - (a) Blue Baby or Cyanosis
  - (b) Basidiomycota
  - (c) Photoperiodism