

Roll Number
 In Figures: _____
 In Words: _____

**PR XI (01) 16
 BIOLOGY (New)
 Inter Part-I
 (Fresh/Reappear)**

Superintendent
 Signature / Stamp: _____

Fic. No. _____
 (For Board's Office use only)

**BIOLOGY (New)
 Inter Part-I
 (Fresh/Reappear)**

Fic. No. _____
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Time Allowed: 3 Hours

Marks: 85

Note: There are THREE sections in this paper i.e. Section A, B and C.

Attempt Section-A on the same paper and return it to the Superintendent within the given time.

No marks will be awarded for **Cutting, Erasing or Overwriting**. Marks of Identification will lead to UFM case, **Mobile Phone** etc are not allowed in the examination hall.

Time Allowed: 20 minutes

Section – A

Marks: 18

Q-I Write the correct option i.e. A, B, C or D in the empty box provided opposite to each part.

- | | | | | | |
|--|-------------------------|---------------------------|------------------------------|------------------------|---|
| i. The magnification power of light microscope is | A. 500 nm | B. 750 nm | C. 250 nm | D. 1000 nm | C |
| ii. Which one of the given element is present in the head of chlorophyll molecule? | A. Fe | B. Mg | C. Mn | D. Cl | B |
| iii. Botulism is | A. Air borne disease | B. Flood borne disease | C. Water borne disease | D. None of these | B |
| iv. Palmitic acid is the example of Fatty acid. | A. Saturated | B. Unsaturated | C. Super Saturated | D. Both A and B | A |
| v. Glochidium larva is developed in which of the given phylum? | A. Annelida | B. Arthropoda | C. Mollusca | D. None of these | C |
| vi. The only living member of sphenopsida is..... | A. Rhynea | B. Calamite | C. Equisetum | D. Cooksonia | C |
| vii. The contraction of heart is termed as | A. Systole | B. Diastole | C. Cardiac cycle | D. Both A and B | A |
| viii. Bacterial gall disease is caused by..... | A. Erwinia Caratovora | B. Blastonia solanacearum | C. Agrobacterium tumefaciens | D. Pseudomonas species | C |
| ix. The cause of peptic ulcer is..... | A. Physiological stress | B. Excessive HCl | C. Cigarette smoking | D. All of these | D |
| x. The optimum temperature for thermophilic bacteria is | A. 73 °C | B. 90 °C | C. -10 °C | D. None of these | B |
| xi. Mulliparous type Cyme of inflorescence is found in..... | A. Begonia | B. Cassia fistula | C. Ibris | D. Euphorbia | D |
| xii. Peach is an example of | A. Hydrophytes | B. Xerophytes | C. Halophytes | D. Mesophytes | D |
| xiii. All living cell got direct energy for life activities from..... | A. Chloroplast | B. Mitochondria | C. ATP | D. Sun | C |
| xiv. The cell walls of fungi are made up of..... | A. Peptidoglycan | B. Murien | C. Chilin | D. Cellulose | C |
| xv. Salsola is an example of | A. Hydrophytes | B. Mesophytes | C. Xerophytes | D. Halophytes | D |
| xvi. The group of Oomycota is also called..... | A. Club fungi | B. Water molds | C. Slime molds | D. None of these | B |
| xvii. Humoral immunity is due to..... | A. B – lymphocytes | B. T – lymphocytes | C. Macrophages | D. Both A and B | A |
| xviii. Hepatitisis also called serum hepatitis. | A. B | B. A | C. D | D. C | A |

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Note: Time allowed for Section – B and Section – C is 2 Hours and 40 minutes.

Section – B

Marks: 40

Q-II Answer any TEN parts. Each part carries FOUR marks.

1. What do you know about C₄ Photosynthesis?
2. What is ATP? Explain briefly.
3. Write a short note on co enzymes and Activators? Give examples.
4. What is Amoeba? Explain.
5. Write a note on Heterotrophic Bacteria.
6. Explain briefly the process of Centrifugation.
7. Differentiate between Short Day and Long Day Plants.
8. Differentiate between Lipoproteins and Nucleoproteins.
9. Write a note on complexity in Animals.
10. Differentiate between Biparous and Multiparous Cyme.
11. Write a short note on Prions.
12. What is Cyanosis? Explain.
13. Write four functions of Liver in Human.

Section – C

Marks: 27

Note : Attempt any THREE questions. All questions carry equal marks. Draw neat and labelled diagram where necessary.

Q-III Describe the structure and function of Human Stomach.

Q-IV What are Carbohydrates? Explain Oligosaccharides and Polysaccharides in detail.

Q-V Define Inflorescence. Discuss its major types.

Q-VI Write note on any two of the following.

- (a) Heterospory.
- (b) Coral reef.
- (c) Rhizopus.