

BIOLOGY Part-I Time: 20 Minutes Marks: 18 Multiple Choice Questions 01 Mark for each	Paper Code ① ② ●	<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> </table> Serial No. Of the Answer Book _____	Roll No. of the Student							
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SECTION-A

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.

- I.i. Phytophthora infestans belongs to _____.
- (A) Rhodophyta (B) Oomycota (C) Diatoms (D) Chlorophyta
- ii. A branched raceme is called _____.
- (A) Penicle (B) Umbel (C) Capitatum (D) Corymb
- iii. Selaginella belongs to sub-phylum _____.
- (A) Psilopsida (B) Lycopsidea (C) Sphenopsida (D) Pteropsida
- iv. Special type of vegetation occurs in mangrove.
- (A) Hydrophytes (B) Xerophytes (C) Halophytes (D) Mesophytes
- v. The largest body of lymphoid tissue in human body is?
- (A) Heart (B) Liver (C) Kidney (D) Spleen
- vi. In pasteurization milk is heated at 72°C for _____.
- (A) 03 seconds (B) 10 seconds (C) 13 seconds (D) 15 seconds
- vii. Cotton leaf curl caused by begomovirus species are transmitted by.
- (A) Dragon fly (B) White fly (C) Tse-Tse fly (D) Sand fly
- viii. The symbol ψ w represents?
- (A) Solute Potential (B) Water Potential (C) Pressure Potential (D) Air Potential
- ix. What is ATPs produced during anaerobic respiration?
- (A) 108 ATPs (B) 36 ATPs (C) 02 ATPs (D) 38 ATPs
- x. The zoological name of starfish is.
- (A) Asterias rubens (B) Thyone briareus (C) Orphiothrix (D) Arabica punctularia
- xi. Photosystem II absorb light of _____ nm.
- (A) 660 (B) 700 (C) 680 (D) 760
- xii. Which of the following is not micronutrient.
- (A) Na (B) Ca (C) K (D) Mg
- xiii. The optimum PH of pepsin to work.
- (A) 7.8 - 7.9 (B) 4.0 - 5.0 (C) 1.5 - 1.6 (D) 4.6 - 5.2
- xiv. The PH of gastric juice ranges between.
- (A) 3-6 (B) 1-3 (C) 07 (D) 7-9
- xv. Keratin protein is found in _____.
- (A) Skin (B) Muscle cell (C) Silk fibre (D) Nails
- xvi. Hypoplasia refers to _____.
- (A) Cyanosis (B) Right & Left ventricular fail to develop (C) Right auricle not formed (D) Left auricle not formed
- xvii. The mammalian spermatozoon having _____.
- (A) Single flagellum (B) Three flagella (C) Two flagella (D) Four flagella
- xviii. Benefits of fever are _____.
- (A) Walling of iron (B) Interferon production (C) Production of WBCs (D) All of these

BILOGY Part-I

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

SECTION "B"**Marks: 40**

I. Attempt any Ten Parts out of the following. Each Part carries equal marks.

- i. Write a note on centrifugation?
- ii. Write down importance of high specific heat capacity of water for living organism?
- iii. What is feedback inhibition?
- iv. What is photorespiration? Explain its three steps in short words?
- v. Classify viruses on basis of host?
- vi. Discuss importance of bacteria?
- vii. Write note on foraminifera?
- viii. Discuss uses of bryophyta.
- ix. Define heterogamy?
- x. Differentiate b/w haemocoel & coelom?
- xi. What is symplast & Apoplast pathway?
- xii. Give an account on Anorexia nervosa?
- xiii. Explain structural model of antibody?

SECTION "C"**Marks: 27**

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

- III. (a) Describe life cycle of bacteriophage in detail.
(b) What do you know about vernalization.
- IV. (a) Write note on liver structure & function.
(b) What do you know about ulcer.
- V. (a) What is AIDS? Explain life cycle of HIV in which causative agent is AIDS?
(b) Draw diagram of Flu virus?
- VI. Write note on any two of the following.
(a) Bacterial soft rot disease.
(b) Macrophage
(c) Thallassaemia