

(Objective Type)

Time : 20 Minutes

Marks : 17

(Inter-A-2018)

Inter (Part - I)

New Pattern

Session (2015 - 2017) to (2017 - 2019)

Biology BHN



403482

Note : Four possible choices A, B, C, D to each question are given. Which choice 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.

- Q.No.1 Parabronchi are present in the lungs of :
- (1) (A) Insects (B) Man (C) Lion (D) ☒ Birds
- (2) Certain types of Whales are also :  
(A) Omnivore (B) ☒ Filter Feeder (C) Fluid Feeder (D) Herbivore
- (3) Temperature that causes closure of Stomata is :  
(A)  $30 - 40^{\circ}\text{C}$  (B)  $30 - 35^{\circ}\text{C}$  (C)  $25 - 35^{\circ}\text{C}$  (D) ☒  $40 - 45^{\circ}\text{C}$
- (4) Cohesion Tension Theory was proposed by :  
(A) Sacks (B) Dixon (C) Van Mohl (D) Van Neil
- (5) The process of Glycolysis occurs in : ☒ Mitochondria (B) Ribosomes (C) E.R. (D) Cytosol
- (6) Oxygen released during Photosynthesis comes from :  
(A)  $\text{CO}_2$  (B)  $\text{C}_6\text{H}_{12}\text{O}_6$  (C) ☒  $\text{H}_2\text{O}$  (D)  $\text{CaCO}_3$
- (7) Polymorphism is a characteristic of Members of Phylum :  
(A) Echinodermata (B) Cnidaria (C) Annelida (D) ☒ Arthropoda
- (8) Nereis belongs to class : (A) Oligochaeta (B) Hirudinea (C) Polychaeta (D) ☒ Insecta
- (9) In Spermatophytes, seed is formed from : (A) Ovule (B) Ovary (C) ☒ Anther (D) Embryosac
- (10) Reindeer Moss is a : ☒ Moss (B) Fungus (C) Lichen (D) Mold
- (11) Diatoma belongs to Phylum :  
(A) Rhodophyta (B) Euglenophyta (C) ☒ Chlorophyta (D) Chrysophyta
- (12) Pili are primarily involved in :  
(A) Parthenogenesis (B) Vaccination (C) ☒ Conjugation (D) Motility
- (13) The number of Capsomeres in the Capsid of Adenovirus is :  
(A) 253 (B) ☒ 252 (C) 257 (D) 254
- (14) The protein present in microtubules is : (A) Myosin (B) Actin (C) ☒ Tubulin (D) Tropomyosin
- (15) The Optimum pH of Pancreatic Lipase is : (A) 7.00 (B) 9.00 (C) 8.00 (D) ☒ 6.00
- (16) The percentage of water in human bone cells is :  
(A) 18 % (B) 19 % (C) ☒ 20 % (D) 25 %
- (17) Which one of these is Macro Molecule : (A)  $\text{H}_2\text{O}$  (B)  $\text{CO}_2$  (C)  $\text{O}_2$  (D) ☒ Starch

☆☆☆☆☆



Biology (Subjective)	Inter-A-2018	Time : 2:40 Hrs Marks = 68	Inter (Part - 1) Session (2015 - 17) to (2017 - 19)
----------------------	--------------	----------------------------	--

Note: It is compulsory to attempt any (8--8) parts each from Q.No.2 and Q.No.3 while attempt any (6) parts from Q.No.4. Attempt any (03) questions from Part II. Write same Question No. and its Part No. as given in the question paper.

Make Diagram where Necessary.

Part - I

BHW

22 x 2 = 44

Q.No.2 (i) Differentiate between Chemotherapy and Gene Therapy.

- (ii) What is Biological Control? Give its example.
- (iii) Differentiate between Competitive and Non-Competitive Enzyme Inhibitors.
- (iv) How Holoenzyme differs from Apoenzyme?
- (v) Define Optimum pH. Give optimum pH of Pepsin.
- (vi) What are Capsomeres? How many Capsomeres are present in the Capsids of Herpes Virus?
- (vii) What is Swim Bladder? State its function.
- (viii) Differentiate between Spiral and Radial Cleavage.
- (ix) What is Polymorphism? Give two examples.
- (x) Name any two Larvae found in Echinoderms.
- (xi) Differentiate between Rusts and Smuts.
- (xii) What is Parasexuality?

Q.No.3 (i) Write two chemical methods to control microbes.

- (ii) What are the Kelps?
- (iii) What is Chlorella? Write its use.
- (iv) Write down the role of Phytophthora Infestans in human history.
- (v) Differentiate between Foraminiferans and Actinopods.
- (vi) What is Oocyte?
- (vii) What are the Monoecious Plants?
- (viii) Differentiate between Light Reaction and Dark Reaction of Photosynthesis.
- (ix) Compare Chlorophyll a to Chlorophyll b.
- (x) What is Pyrosis? Give its cause.
- (xi) Differentiate between Peristalsis and Antiperistalsis.
- (xii) What do you know about the Detritivores?

No.4 (i) Differentiate between Granum and Thylakoid Membrane.

- (ii) What is Centromere and its role?
- (iii) Differentiate between Heat Capacity and Heat of Water Vaporization.
- (iv) Differentiate between Apoplast and Symplast Pathways.
- (v) Differentiate between Solute Potential and Pressure Potential.
- (vi) Differentiate between Cutaneous Respiration and Pulmonary Respiration.
- (vii) Define Parabronchi and its role in birds.
- (viii) Differentiate between Bronchi and Bronchioles.
- (ix) What is Respiratory Distress Syndrome and its symptoms?

Part - II

No.5 (a) State and explain the process of Cloning.

(b) Define Immunity. Discuss its types.

No.6 (a) Discuss Acylglycerols in detail.

(b) Give economic losses due to Fungi.

No.7 (a) What are Glyoxysomes? Give their functions.

(b) Write a note on Food Poisoning.

No.8 (a) Write a note on characteristics of Viruses.

(b) Sketch the process of Glycolysis. (No description required.)

No.9 (a) Explain Respiration in Bacteria.

(b) Write a note on the Economic Importance of Family Rosaceae.

(4)  
(4)  
(4)  
(4)  
(4)  
(4)  
(4)  
(4)  
(4)  
(4)