

OBJECTIVE

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.

QUESTION NO. 1

- 1 A group of similar cells that perform specific function is called
(A) Tissue (B) Organ (C) System (D) Organdles
- 2 Which of the following is not a fibrous protein
(A) Keratin (B) Myocin (C) Fibrin (D) Hormones
- 3 The optimum pH for sucrase is
(A) 4.00 (B) 5.00 (C) 4.50 (D) 2.00
- 4 Resolution of human naked eye is
(A) 1.00 mm (B) 2.00 mm (C) 3.00 mm (D) 4.00 mm
- 5 Number of capsomeres in capsid of adenovirus is
(A) 162 (B) 262 (C) 252 (D) 152
- 6 Bacteria without any flagella are called
(A) Amphitrichous (B) Monotrichous (C) Lophotrichous (D) Atrichous
- 7 Length of brown algae range from few centimeters to
(A) 170 meters (B) 75 meters (C) 70 cm (D) 75 cm
- 8 Reindeer moss used as food for reindeer is
(A) Moss (B) Lichen (C) Mold (D) Club fungi
- 9 The process of evolution of leaf was completed in more than
(A) 15-16 million year (B) 15-17 million year (C) 15-19 million year (D) 15-20 million year
- 10 Canines are missing in
(A) Carnivores (B) Herbivores (C) Omnivores (D) Humans
- 11 Carbon dioxide per 100 ml of venous blood is
(A) 50 ml (B) 54 ml (C) 98 ml (D) 99 ml
- 12 The pores by which water enters in the body of sponge is called
(A) Osculum (B) Ostia (C) Mouth (D) Spongocoel
- 13 Polymorphism is the characteristic of members of phylum
(A) Porifera (B) Cnidaria (C) Annelida (D) Arthropoda
- 14 Glycolysis occurs in
(A) Chloroplast (B) Mitochondria (C) Ribosomes (D) Cytosol
- 15 The light falling on leaf surface is absorbed about
(A) 1 % (B) 25 % (C) 50 % (D) 100 %
- 16 Single circuit heart is present in
(A) Mammals (B) Reptiles (C) Amphibians (D) Fishes
- 17 The structures involved in guttation are
(A) Lenticels (B) Hydathodes (C) Stomata (D) Cuticle

BIOLOGY (NEW COURSE)**SUBJECTIVE****GROUP FIRST****ACADEMIC SESSION: (2015-2017 TO 2017 – 2019)****SECTION-I****QUESTION NO. 2 Write short answers any Eight (8) questions of the following****16**

- (1) What are micromolecules? Give one example
- (2) Define Bioremediation.
- (3) What is a co-factor of an enzyme?
- (4) What is lock and key model of enzyme action?
- (5) What is effect of a slight change in pH on enzyme action?
- (6) What is HIV?
- (7) Differentiate between mycelium and hypha ?
- (8) What are rusts?
- (9) What are triploblastic animals?
- (10) Define polymorphism.
- (11) Name any two beneficial insects.
- (12) What are prototherian animals?

QUESTION NO. 3 Write short answers any Eight (8) questions of the following**16**

- (1) Write down the role of pili in bacteria.
- (2) Write down any two characteristics of protists
- (3) What is chlorella?
- (4) How are Foraminiferans source of limestone?
- (5) Give importance of algae.
- (6) Write four characteristics of bryophytes.
- (8) What is overtopping?
- (7) What is chemiosmosis?
- (9) What are carotenoids?
- (10) What is saprophytic nutrition?
- (11) What do you understand by anti-peristalsis?
- (12) What is the location and function of rectum?

QUESTION NO. 4 Write short answers any Six (6) questions of the following**12**

- (1) Define cell, who discovered cell?
- (2) What is plasma membrane? Give its chemical composition.
- (3) What is heat capacity of water?
- (4) Differentiate between Active transport and Diffusion.
- (5) What do you mean by plasmodesmata?
- (6) Define diaphragm and pleura.
- (7) What do you mean by respiratory distress syndrome?
- (8) How does breathing differ from cellular respiration?
- (9) Differentiate between bronchi and bronchioles.

SECTION-II**Note: Attempt any Three questions from this section****8 x 3 = 24**

- 5.(a) What is cloning? Explain its mechanism and write its importance.
- (b) What is transpiration? Describe its types.
- 6.(a) Discuss the importance of Carbon .
- (b) Write a note on Economic losses due to fungi.
- 7.(a) Discuss chloroplast in plants.
- (b) Write a note on digestion in oral cavity of man.
- 8.(a) Sketch infection cycle of HIV.
- (b) Sketch the Krebs cycle (No description)
- 9.(a) Write a note on nutrition in Bacteria.
- (b) Differentiate between microphylls and megaphylls and describe evolution of megaphyllous leaf