**BIOLOGY, GROUP FIRST**

**(11th CLASS — 2012)**

**OBJECTIVE**

TIME: 20 MINUTES MARKS: 17

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. Attempt as many questions as given in objective type question paper and leave others blank, the letter A, B, C or D in the column (Write correct option) against each question, If there is a Contradiction in the bubble and hand written answer. Bubble option will be considered correct.

**QUESTION NO. 1**

1. A technique that consists of isolating the normal gene and Inserting it into the host through bone marrow is

(A) Radiotherapy (B) Chemotherapy

(C) gene therapy (D) Cloning

2. Phosphatidylcholine is one of the common

(A) Phospholipid (B) Sphingo lipid

(C) Glycolipid (D) Terpenoid

3. According to Lock and key model Lie active site is

(A) Rigid structure (B) Flexible

(C) Liquid (D) All of the above

4. Membrane bounded green pigment Containing bodies present in the cells are called as

(A) Plastids (B) Chloroplasts

(C) Chromoplasts (D) Leucoplasts

5 The major cell infected by HIV is tt e helper

(A) A - monocytes (B) T - monocytes

(C) R - lymphocytes (D) T - lymphocytes

6 Bacterial endospores function in

(A) Nutrition (B) Reproduction

(C) Survival (D) Protein synthesis

7 Which are the major producers in aquatic ecosystem

(A) Green algae (B) Diatoms

(C) Slime molds (D) Ferns

8. In fungi asexual reproduction takes place by

(A) Conidia (B) Fragmentation

(C) Budding (D) All of these

9 A flower is a modified

(A) Stem (B) Shoot

(C) Leaf (D) Root

10. Endosperm of angiosperm is

(A) 1 N (B) 2 N

(C) 3 N (D) 4 N

11. Blood of Arthropods is

(A) Green colour (B) Red colour

(C) Brown colour (D) Colourless

12 Syrinx is organ of voice in

(A) Amphibians (B) Birds

(C) Reptiles (D) Mammals

13. Which is not accessory pigment

(A) Chlorphyll a (B) Chlorophyll b

(C) Xanthophyll (D) Carotene

14. HCI is secreted by gastric gland ad s of stomach

(A) Transpiration (B) Chief Cells

(C) Muscle cells (D) Zymogen cells

15. Respiratory system is more efficient in

(A) Man (B) Fish

(C) Birds (D) Frog

16. Hydothodes are associated with

(A) Transpiration (B) Conductor

(C) Transportation (D) Guttation

17. The heart of fish works as

(A) Double circuit heart (B) Open circuit heart

(C) Single circuit heart (D) All of those

**BIOLOGY, GROUP FIRST**

**(11th CLASS — 2014)**

**Subjective**

SECTION-I

TIME: 3.10 Hours MARKS: 68

**QUESTION No. 2 Write short answers any Eight (8) questions of the following 16**

(1) What are bio-elements ? Name bio-elements which occur in traces in human body.

1. How does theory differ from law?
2. Differentiate between Glycosidic and peptide bond.
3. Why lipids considered as high energy than carbohydrates.
4. Write down importance of yeast.
5. What are Lichens ? Give its importance.
6. Why are Anthoceropsides advanced than other Bryophytes ?
7. Give three differences between Monocot and Dicot plants.
8. Define phylogenetie system of classification.
9. Differentiate between Absorption and Assimilation.
10. What is botulism ? Give its causes.
11. Give the composition of saliva.

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

(1) Give salient features of cell theory.

1. Differentiate between phagocytosis and pinocytosis.
2. Define species, Give two examples.
3. What are onto viruses ?
4. Briefly describe the importance of cyanobacteria.
5. Differentiate between antiseptics and disinfectants.
6. Name some respiratory disorders.
7. What is respiratory distress syndrome.
8. Compare monocytes with lymphocytes.
9. Define hypertension and thrombo-embolism.
10. Differentiate between cell-mediated and humoral response.
11. Define Atherosclerosis.

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

1. How temperature affect the rate of enzyme action ?
2. Write Ecologically importance of Bacteria.

(3) Define immunization and vaccination.

1. Write properties of Good-respiratory surface.
2. What is Asthma ?
3. Write a note on Bleeding.
4. Define pulmonary and systemic circulation.
5. What are Blood platelets ? Give their function.

(9) What do you know about active-immunity ?

**SECTION-II**

**Note: Attempt any Three questions from this section 8x3=24**

5 (i) Describe infection cycle of HIV 4

(ii) Write down the economic importance of family solanaceae 4

6 (i) Describe eight characteristics of enzymes 4

(ii) Describe nutrition of bacteria 4

7 (i) Write note on Plastids 4

(ii) Explain the factors affecting rate of transpiration 4

8 Explain respiration in man 8

9 What are the general characters of phylum Annelida 8