

FORM THREE MONTHLY TEST SEPTEMBER, 2020

BIOLOGY

TIME: 2:30 HOURS

INSTRUCTIONS

- (i) This paper consists of three section A, B and C
- (ii) Answer ALL question in this section A,B and two questions in section C
- (iii) ALL answer should be in Answer sheet provided

SECTION A (25 MSRKS)

1. For each of the following items (i-x) choose the correct answer among the given alternatives and write its letter.

- (i) A part of mushroom above the soil is called
A. Gills B. stalk C. Pileus D. fruiting body
- (ii) Specialized plant cell that transport water and minerals from roots to the leaves
A. xylem B. cell membrane C. phloem D. palisade cell
- (iii) Enzymes that hydrolyse starch to maltose
A. lipase B. sucrose C. peptidase D. amylase
- (iv) A joint which allows movement in one direction is called
A. Hinge joint B. ball and socket joint C. pinot joint D. gliding joint
- (v) Which of the following is the risk behaviour
A. eating meat daily B. alcoholism C. being patient D. truancy
- (vi) The by products of photosynthesis process are:
A. oxygen and water vapour B. oxygen and carbon dioxide
C. carbohydrate and oxygen D. carbohydrate and carbon dioxide
- (vii) A term which best describe a condition of plant that has lost too much water is.....
A. Turgidity B. osmosis C. crenation D. plasmolysis
- (viii) Oxygen debt occurs when
A. too much carbondioxide is present in the body
B. the rate of respiration exceeds that of photosynthesis in green plants
C. alcohol is formed in the tissue
D. there is insufficient oxygen in the muscle and tissues
- (ix) Hormones which controls response for fight or flight in animals is;
A. antidiuretic B. insulin thyroxin D. adrenalin
- (x) Filaments and anthers makes up the:
A. style B. stigma C. stalk D. stamen

2. Match the parts of human ear with the functions in List B

LIST A

- (i) Amplify sound waves

- (ii) Convert sound waves into vibrations
- (iii) Balance pressure in the middle for balance of the body
- (iv) A sense organ responsible for balance and hearing

LIST B

- A. Ear
- B. Eye
- C. Cochlea
- D. Eustachian tube
- E. Malleus, Incus and Stapes
- F. Pinna
- G. Ear drum
- H. Semi circular canals
- I. Oval window
- J. Ear canal

SECTION B (60 MARKS)

Answer ALL questions in this section

3. (a) Distinguish the following terms
 - (i) Inhalation and exhalation
 - (ii) Respiration and breathing
 (b) Briefly explain four characteristics of respiratory surface of respiratory organ
4. (a) Write three importance of movement in plants and animals
 (b) Outline any three functions of human skeleton
5. In the body of human being there are different hormones which helps to increase different process.
 (a) Give two secondary sexual characteristics
 - (i) Female human being
 - (ii) Male human being
 (b) Name any four parts of a female reproductive organ in a human being and state their function
6. In natural environment we find abiotic and biotic factors which are interacting
 (a) How is abiotic differ from biotic component
 (b) Given the food chain below

Grass → Grasshopper → Snake → Hawk

 - (i) List down the number of trophic levels
 - (ii) Name the organism which is the producer
 - (iii) What is the significance of grass in the above food chain

7. The diagram in the figure below is the digestive tract of human being. Study the diagram then answer the questions that follow.

- (a) Name the parts labeled I, J, K, L and M
- (b) Name the digestive enzymes present in the juice produced by gland J
- (c) List two function of juice stored in part K
- (d) List two disorders which can happen in the organ I due to poor eating habits

SECTION C

Answer only one question, question number 10 is compulsory

- 8. COVID-19 is hazardous dreadful pandemic disease which risk life of people in the world. scientists struggling to find cure of the disease but till now no success. Write an essay on this disease focusing on type of disease, causes of the disease and five preventive measures against this disease
- 9. Discuss economic importance of fungi in five points
- 10. Explain any four effects of irresponsible sexual behaviour an three ways of eradicating that behaviour in the community