

Quarterly Examination 2017-2018

Std. : VII
Subject : Biology

Full Marks : 80
Time : 2hrs.+15 min.

Section-A [40 marks]

(Attempt all the questions from this section)

Q1. (a) Name the following. (Write only answers) [10]

- (i) The non-living covering around the cell membrane in a plant cell.
- (ii) Tissue which carries water and minerals to the different parts of the tree.
- (iii) Small bristles on the under surface of an earth worm.
- (iv) The scientist who coined the term 'cell'.
- (v) An animal which moves with the help of its muscular foot.
- (vi) Tissues present at the growing areas of a plant.
- (vii) Type of locomotion in Paramecium.
- (viii) The control centre of the cell.
- (ix) Plastids that give colour to flowers and fruits.
- (x) Fibre like projections arising from the cell body.

(b) Fill in the blanks : (Write only answers). [10]

- (i) In an organ system, many _____ work together to perform one major life function.
- (ii) _____ are small rounded sacs filled with enzymes.
- (iii) The _____ of cells is related to the functions they perform.
- (iv) _____ attaches a muscle to a bone.
- (v) _____ is made up of flat plates and hollow tubes in arthropods.
- (vi) The level of an organism or an individual is termed as _____ level.
- (vii) _____ forms spindle during cell division.
- (viii) In _____ organisms, all life activities are carried out within a single cell.
- (ix) _____ moves by contracting and expanding their bodies.
- (x) Total number of bones in the human skeleton is _____.

(c) State 'True' or 'False'. If 'False', rewrite the correct statement. [10]

- (i) The axon transmits impulse from the brain to different parts of the body.
- (ii) Cell is the structural and functional unit of life.

- (iii) Cardiac muscles are involuntary muscles.
- (iv) Anton van Leeuwenhoek gave the cell theory.
- (v) The cartilage pads act as shock absorbers.
- (vi) Sclereids is a type of collenchyma tissue.
- (vii) Centrosome is present in animal cells only.
- (viii) Fish uses its muscular tail and fins for swimming.
- (ix) Tissue is the lowest level of organisation in living organisms.
- (x) The hindlimbs of birds helps them in flying.

(d) Match the following and rewrite in correct pairs.

[5]

Column A	Column B
(i) Vacuole	(a) ribosomes
(ii) Ligament	(b) epithelial tissue
(iii) Mitochondria	(c) cell turgidity
(iv) Protein synthesis	(d) power house of cell
(v) squamous	(e) connective tissue

(e) Circle the odd one out.

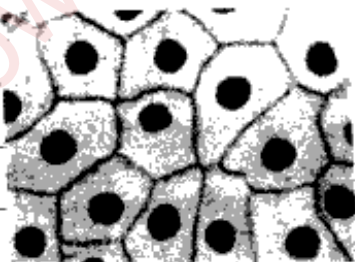
[5]

- (i) Stomach, Intestine, Rectum, Bronchi.
- (ii) Nucleoplasm, Cytoplasm, Chromatin, Nucleolus.
- (iii) Nerve cells, muscle cells, guard cells, blood cells.
- (iv) Cilia, Flagella, Pseudopodia, wings
- (v) Cartilage, Lymph, Blood, Plasma

Section-B [40 marks]
(Answer any 4 questions)

Q2. (a) (i) Identify the following types of epithelial tissues.

[3]



(A)



(B)



(C)

(ii) Write two main functions of epithelial tissues.

[2]

(b) Differentiate between the following : (1 difference only) [3]

- (i) Chloroplast and Chromoplast
- (ii) Locomotion and Movement.
- (iii) Hydrosphere and Lithosphere.

(c) Define the following : [2]

- (i) Response —
- (ii) Digestion —

Q3. (a) Draw a nerve cell and label any 4 parts. [1+4=5]

(b) List the 4 different kinds of cells of [2+2=4]

- (i) xylem and (ii) phloem

(c) What is 'vascular tissue' ? [1]

Q4. (a) How is the bird's body adapted for flying ? [3]

(b) Draw an amoeba and label any 5 parts. [$\frac{1}{2}+2\frac{1}{2}=3$]

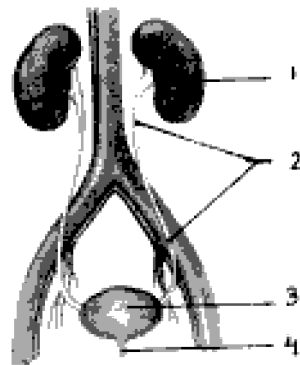
(c) Name one animal to which the following locomotory organs belong. [4]

- (i) Cilia (iii) pseudopodia
- (ii) webbed feet (iv) flagellum

Q5. (a) (i) Identify the system shown. [1]

(ii) Label the parts (1—4) [2]

(iii) What passes out through part 4 ? [1]



(b) Differentiate between : [2]

- (i) Nucleus and Nucleolus
- (ii) Biotic factors and Abiotic factors.

(c) (i) What are the 3 major regions of the brain ? [3]

(ii) Give one function of any one region. [1]

Q6. (a) (i) What is the major difference between voluntary and involuntary muscles ? [1]

(ii) Give 2 locations of Involuntary muscles. [2]

(b) (i) Identify the following organs.

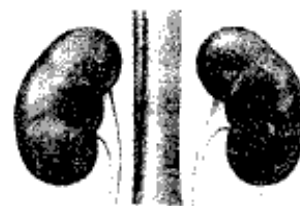
[1½]



(A)



(B)



(C)

(ii) Also, mention to which system each belongs.

[1½]

(c) Give the location and function of the following.

[4]

	<u>Location</u>	<u>Function</u>
(i) Genes —		
(ii) Cartilage —		