

SECTION – A (40 marks)

Answer all the questions from this section

QUESTION 1

Select the correct answer to the questions from the given option (Write the correct answer only):

[15]

- (i) **Which of the following tissue contain the dead cells**
 a) Sclerenchyma c) collenchyma
 b) Parenchyma d) Adipose
- (ii) **These muscles are present on the iris of human eyes**
 a) Smooth muscles c) Voluntary muscles
 b) Cardiac muscles d) Striated muscles
- (iii) **Bacterial cell has a gelatinous protective cover known as**
 a) capsule c) plasma membrane
 b) flagella d) Trichome
- (iv) **These are comma shaped bacteria**
 a) *Lactobacillus* c) Amoeba
 b) *Vibrio cholerae* d) Paramecium
- (v) **Tuberculosis is caused by**
 a) protista c) virus
 b) bacteria d) Amoeba
- (vi) **This animal does not have a backbone**
 a) Frog c) snake
 b) Ascaris d) Electric ray
- (vii) **Presence of hair on the body is a characteristic of**
 a) Birds c) Mammals
 b) Only human d) Only bears
- (viii) **The cotton like growth that we observe on a stale bread is**
 a) A fungus c) Amoebae
 b) A bacterium d) Protozoa
- (ix) **These are the animals with jointed appendages**
 a) Cnidarian c) Nematoda
 b) Arthropoda d) Echinodermata
- (x) **These animals can breath through both their lungs and skin**
 a) Humans c) Fungus
 b) Star fish d) Frog
- (xi) **Your brain is mainly made up of this tissue**
 a) Blood c) Muscles
 b) Neural d) Areolar
- (xii) **The organism which derive nutrition from dead and decaying matter is a :**
 a) Autotroph c) Parasite
 b) Saprophyte d) Healthy organism

- (xiii) _____ is a network of hyphae
- a) Mycelium
b) sporangium
c) pseudopodia
d) Lycelium
- (xiv) These are worms that live inside a human body
- a) Earthworm
b) Tapeworm
c) Leech
d) Hydra
- (xv) A relationship in which two organisms live in harmony
- a) Symbiosis
b) Parasitism
c) competition
d) Antibiotics

QUESTION 2

- (i) Name the following [5]
- a) A protista which contain chloroplast like plant
b) Muscles that are branched.
c) Main waste product produced by amoeba
d) Bacteria that live in root nodules
e) An example of Arachnida
- (ii) Choose the odd one out and write the category of the rest [5]
- a) Typhoid, Tuberculosis, COVID 19, Cholera.
b) Agaricus, penicillium, bread-mould, paramecium
c) Myriapoda, Mammalia, Arachnida, Crustacea.
d) Parenchyma, xylem, sclerenchyma, collenchyma
e) Areolar, tendon, cartilage, ligament
- (iii) Match the items in column A with most appropriate ones in column B and rewrite the correct matching pairs. [5]

A	B
a) Cartilage	i. epidermis
b) Adipose tissue	ii. parenchyma
c) Nervous tissue	iii. collenchyma
d) protective	iv. Fat globule
e) supportive	v. Messages
	vi. windpipe

- (iv) Correct the wrong statement by changing the underlined word. [5]
- a) Ascaris is a flatworm.
b) Permanent tissue is found at the growing tip of plant.
c) Cardiac muscles are unstriated.
d) Striated muscles are involuntary.
e) Contractile vacuole is present in bacteria.
- (v) Fill in the blanks : [5]
- a) Bread mould belongs to the kingdom _____.
b) ----- are living plant cell thick at the corner
c) Amoeba excretes through _____ vacuole.
d) Ringworm is due to ----- infection.
e) Penicillin is an important -----.

Section B (40 MARKS)
Answer any four questions from this section

QUESTION 3

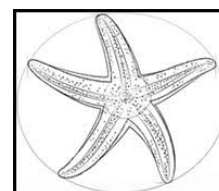
[1+2+2+2+3=10]

- i. Define meristematic tissue.
- ii. Give two points of difference between Xylem and phloem.
- iii. Write two advantages of classification and mention all five kingdoms of life in correct order
- iv. Describe two ways bacteria harmful to us..
- v. Draw a diagram of bacteria and label any four parts. Mention two shapes in which bacteria can be found.

QUESTION 4

[1+2+2+2+3=10]

- i. Why fishes are said to have streamlined body?
- ii. Name two edible mushrooms. Mention two uses of yeast.
- iii. Write two ways in which a fungus is different from a plant.
- iv. Write four characteristics of a meristematic tissue.
- v. Given here is a picture of certain organism.
Identify the organism and write its phylum.
Write two characteristics of the phylum to which this organism belongs.



QUESTION 5

[1+2+2+2+3=10]

- i. Write down the locations of collenchymas in plant.
- ii. Give two points of difference between nematoda and annelida. Mention one example each of these phylums.
- iii. Write two ways amphibians are different from fishes.
- iv. Write two points of difference between tendon and ligaments.
- v. Given alongside are diagrams of certain animal tissues.
Redraw and label the diagram in your answer sheet.
Identify the tissues and mention the specific location of each in human body.



QUESTION 6

[1+2+2+2+3=10]

- i. What is nephridia?
- ii. Discuss two ways fungus is harmful to us.
- iii. Define neuron. Deescribe the structure of a neuron.
- iv. Which bacteria are found in curd? Why is curd sour to taste but milk is sweet?
- v. Mention two characteristic of birds which helps them to fly.
Name two birds that can't fly.

QUESTION 7

[1+2+2+2+3=10]

- i. Name the phylum which contain soft bodied shelled animals.give one example of it.
- ii. What is lymph? Write its one function.
- iii. What are.tentacles? What is its function?
- iv. Write down the location and function of sclerenchyma in plant.
- v. Draw the diagrams depicting the process of binary fission in amoeba. When does an amoeba do multiple fission?

***** All the Best *****