

All the questions are compulsory

SECTION A [20 marks]

Question 1

Choose the correct option :-

[5]

- i. _____ is an animal that lay egg on land
- a) Fish
 - b) Frog
 - c) Turtle
 - d) Camel
- ii. Which among the following is not an arthropod?
- a) Shrimp
 - b) squid
 - c) prawn
 - d) Scorpion
- iii. Syphilis is caused by
- a) *Clostridium botulinum*
 - b) *Yersinia pestis*
 - c) *Bacillus polymyxa*
 - d) *Treponema pallidum* ✓
- iv. Disease ringworm is an infection of
- a) Tapeworm
 - b) Roundworm
 - c) Fungi
 - d) Bacteria
- v. This organic substance is deposited on the outer side of cork in plants:
- a) Suberin
 - b) Lignin
 - c) Pectin
 - d) Renin

Question 2

Give one word answers:-

[5]

- i. The tissue that saves the plant from desiccation and infection.
- ii. The structure that carries out osmoregulation in amoeba.

- iii. The Scientist who classified organisms into Five Kingdoms.
- iv. The organisms included in this group of invertebrates are sedentary
- v. It is the excretory organ of annelids.

Question 3

Correct the statements only changing the underlined word:-

[5]

- i. Connective tissues except bones are richly supplied with blood.
- ii. The hyphae of bread mould swells at the tip to form a mycelium.
- iii. Bacillus anthracis used in retting of jute fibres.
- iv. Animal Kingdom comprises organisms that are multicellular and have autotrophic mode of nutrition.
- v. Annelids move with the help of bristle-like jointed legs

Question 4

Name the following :

[5]

- i. Two Bacteria that are used to prevent diarrhoea in infants.
- ii. Two types of muscle tissues that have striations
- iii. Two invertebrate groups that include mostly parasitic organisms.
- iv. Two mammals that are aquatic
- v. Two fungi used for preparation of sticky cheese.

SECTION B [30 Marks]

Question 5

A. Define the following terms :-

[3]

- i. Tissues ✓
- ii. Eukaryotic cell
- iii. Invertebrates ✓

B. Give reasons :-

[3]

- i. Adipose tissue is present around the kidney.
- ii. It is important to classify organisms.
- iii. Plants are autotrophic organisms.

C. i. Name the two types of apical meristem and also state their role in plants.

[2]

ii. Mention the exact location of Lateral and intercalary meristem.

[2]

Question 6

[2]

A. Write any two harmful aspects of fungi.

B. Briefly explain these processes, carried out in the following :

[2]

i. Locomotion in Amoeba

[2]

ii. Respiration in fishes and amphibians.

[4]

C. Draw a neat diagram of neuron and label any six parts

ention any two features which are unique to these groups of animals :-

[4]

i. Mammalia

ii. Aves

. Differentiate between the following on the basis of the features mentioned in the brackets :- [3]

i. Amphibian and Reptilia (Body covering)

ii. Collenchyma and Sclerenchyma (type of deposition)

iii. Mollusca and Echinodermata (Locomotary organ)

C. Identify the following tissues and write its location/ function as mentioned in the brackets :- [3]

i. It is a complex vascular tissue formed of dead cells except its parenchyma. (function)

ii. This tissue is a type of epithelial tissue that helps in the excretion, absorption and secretion of fluid. (location)

iii. It is a type of connective tissue present beneath the epithelia, around the outer covering of nerves, the blood vessels, oesophagus and other organs. (function)

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