

I. Answer the following questions:

1. Define Input unit. (2)
2. Expand: MICR. (1)
3. What are the components of CPU? What is its role? What is the function of control unit of CPU? (3)
4. What is utility software? (2)
5. What is the difference between an interpreter and a compiler. (2)
6. What is an object code? (1)
7. What are the advantages of parallel computing? (2)
8. What is threading? (2)
9. What is computational thinking. (2)
10. What is pattern recognition? Give examples. (3)
11. Which of the following are syntactically correct strings? State reasons.  
a) "Good by" b) 'She shouted "Hello!" very loudly' (2)
12. What is the role of indentation in python? (2)
13. What is the error in following cod: x, y = 7? (1)
14. Why does python uses symbol j to represent imaginary part of a complex number instead of the conventional i? (1)
15. How will you calculate  $4.5^5$  in python. (1)
16. How are following two expressions different?  
a) ans = 8 b) ans = = 8 (1)
17. What is type casting? (2)
18. Write a program to take a 2-digit number and then print the reversed number. That is, if the input given is 25, the program should print 52. (3)
19. What will be the output of following code fragment if the input given is (i) 7 (ii) 5? (2)  

```
a= int (input ('Enter a number'))  
if (a == 5):  
    print ("Five")  
else:  
    print ("Not Five")
```

20. What is the significance of an empty statement? (1)

21. What is the error in following code? correct the code. (2)

```
weather = 'raining'  
if weather = 'sunny':  
    print ("Wear Sunblock")  
elif weather = "snow":  
    print ("going skiing")  
else:  
    print (weather)
```

22. Predict the output of the following code fragments: (2)

a) for q in range (100, 50, -10):

```
    print (q)
```

b) x = 45

```
    while x < 50:
```

```
        print (x)
```

23. Given that

```
S1 = "wow python" (2)
```

```
S2 = "strings are fun"
```

Do the following operations

a) S1[1 : 3] b) S1 [:3] + S1[3:]

24. Suggest appropriate functions for the following: (1)

a) To remove all white spaces from the beginning of a string.

b) To check whether all letters of the string are in capital letters.

25. What do you mean by syntax error and semantic error? (2)

26. What is break point? (1)

27. Write a program that inputs two lists and creates a third, that contains all elements of the first followed by all elements of the second. (3)

28. Predict the output (1)

```
List 1 = [13, 18, 11, 16, 13, 18, 13]
```

```
Print [List 1. Index (18)]
```

```
Print [List 1. Count (18)]
```

```
List 1. Append (List1.count (13))
```

```
Print (List1)
```

17.12.2019  
STD: XI(Majestic)

EVERWIN VIDHYASHRAM  
PERIODIC ASSESSMENT- III  
BIOLOGY

Marks: 50  
Time: 2 Hrs

General Instructions:

1. All the questions are compulsory.
2. The question paper comprises of five sections – A,B,C,D and E.
3. Section A consists of 5 questions, each question is of one mark.
4. Section B consists of 6 questions, each question carries 2 marks.
5. Section C consists of 3 brief questions, each question carries 3 marks.
6. Section D consists of 3 paragraph / diagram based questions, each question carries 3 marks.
7. Section E consists of 3 detailed questions, each question carries 5 marks.

SECTION – A

I. Answer the following questions: 1x5=5

1. In the following question, a statement assertion is given and a corresponding statement of reason is given. Mark the correct answer accordingly.

Assertion: Chemotaxonomy is classifying organisms at molecular level.

Reason: Cytotaxonomy is classifying organisms at cellular level.

- a) If both assertion and reason are true and reason is the correct explanation of assertion
- b) If both assertion and reason are true and reason is not the correct explanation of assertion
- c) If both assertion and reason are false
- d) If assertion is true but reason is false
2. Naked cytoplasm, multinucleated and saprophytic are the characteristics of:
- a) Slime moulds                      b) Protozoans
- c) Chrysophytes                      d) None of the above
3. Name the organism living in salty areas
- a) Euglenoids                      b) Halophiles
- c) Phycomycetes                      d) Deuteromycetes

4. Genus represents

- a) an individual plant or animal
- b) a collection plants or animals
- c) a group of closely related species of plants or animals
- d) None of the above

5. Which one of the following sets of animals share a four chambered heart?

- a) Amphibian, Reptiles, ,Birds
- b) Crocodiles, Birds, Mammals
- c) Lizards, Mammals, Birds
- d) Crocodiles, Lizards, Turtle

SECTION – B

II. Answer the following questions in short: 2x6=12

6. Write in short about the following terms:

- a) Botanical Garden    b) Zoological Parks

7. How are viroids different from viruses? (OR)

Explain the following terms in relation to phycomycetes.

- a) Mycelium    b) Asexual reproduction

8. Differentiate between haplontic and diplontic life cycles.

9. All vertebrates are chordates, but all chordates are not vertebrates.

Justify the statement.

10. Explain briefly the alternation of generation in bryophytes.

11. a) Name the types of zooids present in coelenterates. What is this phenomenon called?

b) Provide the appropriate term of blood filled cavity in arthropods and lateral appendages in aquatic annelids.

SECTION – C

III. Answer the following questions in brief: 3x3=9

12. Mention two similarities between

- a) Aves and Mammals    b) A frog and crocodile    c) A turtle and pila

(OR)

If you are given a specimen, what are the steps that you would follow to classify it?

13. Differentiate between liverworts and mosses.

14. Write about the various types of Archaeobacteria and also about its economic importance.

#### SECTION – D

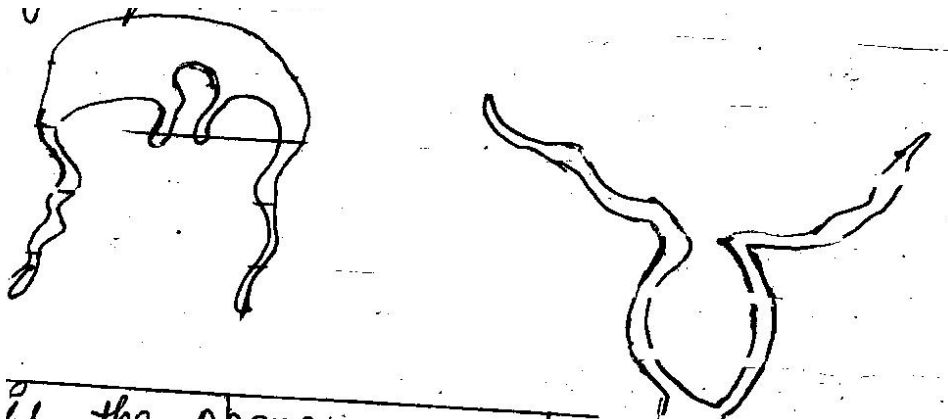
IV. Study the diagram passages in the following questions and answer the questions accordingly: 3x3=9

15. Rama went to see the Zoo in his town with his parent and saw wild animals, their food habits, behavior etc. She was amazed to see that the board placed in front of lion cage and monkey place which tells that both were mammals.

However, she thought they were totally different in appearance.

- a) Explain the scientific reason to maintain a zoological park.
- b) What does ICZN stand for?
- c) Is there any similar place to see a variety of plants? If any then name some.

16. Study the diagram given and answer the following questions.



- a) What is the phenomenon shown in the diagram?
- b) How does reproduction takes place in this phylum?
- c) What is the function of cnidocytes?

17. Naresh a student of class XI has shortness of breath and bronchia inflammation for two weeks, when he visited the doctor, doctor suggested him to take ephedrine. He got amazed about the utility of gymnosperms.

- a) What are gymnosperms?
- b) How does fusion takes place in gymnosperms?
- c) What are the vascular tissues present in gymnosperms?

#### SECTION - E

V. Answer the following questions in detail: 3x5=15

18. Define the following terms: (i) Phylum (ii) Class (iii) Family (iv) Order (v) Genus (OR)

Write in detail about the various taxonomical aids.

19. Write in detail about the four major groups of protozoans. (OR)

Classify the fungi based on various characteristics and explain in detail.

20. Differentiate between cartilaginous and bony fishes. (OR)

Write an account on the features of round worms.