

## **PERIODIC TEST (2017-18)**

### **CLASS XI**

**Time allowed: 1.30 Hrs.**

**SUBJECT : BIOLOGY**

**Max marks:50**

#### **GENERAL INSTRUCTIONS:**

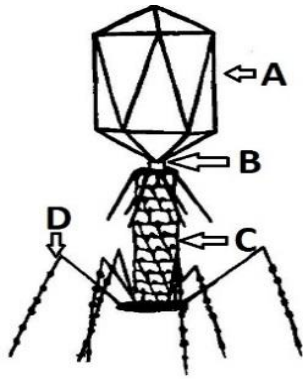
- i) There are a total of 21 questions . All questions are compulsory.
- ii) Section A contains questions number 1 to 6 , very short answer type questions of 1 mark each.
- iii) Section B contains questions number 7 to 12 , short answer type I questions of 2 marks each.
- iv) Section C contains questions number 13 to 18, short answer type II questions of 3 marks each.
- v) Section D contains questions number 19 , value based question of 4 marks .
- vi) Section E contains questions number 20 to 21 , long answer type questions of 5 marks each.

#### **SECTION A**

- 1) Expand: ICBN, ICZN**
- 2) Name two well-known Botanical gardens in India.**
- 3) What is ' Dikaryon'.**
- 4) Mention one typical characteristic of cell wall of Diatoms.**
- 5) Why Bryophytes are called Amphibians of plant kingdom?**
- 6) Write one point of difference between open and closed circulatory system.**

#### **SECTION B**

- 7) Why do you need to classify organisms?**



8) The diagram shows a Bacteriophage. Label A to D

9) Mention the main criteria for classification of organisms into five kingdoms.

10) Which characters of birds helped it to adapt to aerial mode of life? What is the difference between water canal system and water vascular system?

11) What is the function of heterocyst? Name one organism which possess it.

12) Explain the following terms:

a) Numerical Taxonomy

b) Cytotaxonomy

### SECTION C

13) a) Name one genus from plant and one animal having more than one species.

b) What is 'systematics'? How is it different from 'Taxonomy'?

14) Answer the following questions in one sentence.

a) What are Viroids?

b) Give technical names the two components of a Lichen.

15) Fill in the gaps marked a-f

Class	Pigments	Stored Food	Flagella
Chlorophyceae	Chl a,b	Starch	2-8 equal
Phaeophyceae	A	Mannitol and C	E
Rhodophyceae	B	D	F

- 16)** (a) What is the speciality of the roots of *Pinus* and *Cycas*?  
(b) Which event in ferns is considered precursor to seed habit?

**17)** Match the following:

Character	Phylum
Stinging cells	
Annelida	
Parapodia	Porifera
Malpighian Tubule	Cnidaria
Radula	Ctenophora
Spongin fibre	Arthropoda
Comb plate	Mollusca

- 18)** On Sunday your father bought fish from the market. You had an argument with your younger brother who believed that it was a cartilaginous fish. What was your argument?



#### SECTION D

**19)** The boundaries of kingdom Protista are not well defined. What may be a photosynthetic protistian to one biologist may be a plant to another. This Kingdom forms a link with other Kingdoms of Fungi, Plantae, Animalia.

- (i) Kingdom Protista is considered an artificial assemblage of organisms. Explain.  
(ii) How do slime moulds resemble fungi on one hand and Amoeboid protozoans to the other.

#### SECTION E

**20)** Who proposed Binomial Nomenclature? Write the rules citing one example.

**21)** Write brief answers to the following questions.

- a) What is mesoglea?  
b) Give technical term to segmentation found in earthworm.  
c) What are choanocytes?  
d) Name the two forms of Cnidarians



e) Write two unique characters of the class to which this animal belongs to.



