

BIO-BOTANY
11TH STANDARD
UNIT: 1 – DIVERSITY OF LIVING WORLD
CHAPTER: 1 – LIVING WORLD

EVALUTION:

1. Which one of the following statement about virus is correct?

Ans: c) They contain DNA or RNA

2. Identify the incorrect statement about the gram positive bacteria

Ans: a) Teichoic acid absent

3. Identify the Archaeobacterium

Ans: d) Methanobacterium

4. The correct statement regarding Blue green algae is _____

Ans: a) lack of motile structures

5. Identify the correct matching pair

Ans: a-b; b-d; c-c; d-a.

6. **Differentiate homoimerous and heteromerous lichens.**

Ans: The distribution of algal cells distinguishes lichens into two forms namely Homeomerous (Algal cells evenly distributed in the thallus) and Heteromerous (a distinct layer of algae and fungi present).

7. **Write the distinguishing features of monera.**

Ans: i) Monera are the prokaryotic organisms.
 ii) Mostly unicellular rarely multicellular.
 iii) Cell wall is made up of peptidoglycan and mucopeptides.
 iv) Autotrophic or heterotrophic mode of nutrition.
 v) Examples: Archaeobacteria, Eubacteria, Cyanobacteria, Actinomycetes and Mycoplasma.

8. **Why do farmers plant leguminous crops in crop rotations/mixed cropping?**

Ans: Rhizobium – Symbiotic nitrogen fixing bacteria. Living in the root nodules of leguminous plants has symbiotic association, fix atmospheric nitrogen and converted into nitrates there increase soil fertility, so farmers used the plant for crop rotation and mixed cropping.

9. **Briefly discuss five kingdom classification. Add notes on merits and demerits.**

Ans:

Monera	Protista	Fungi	Plantae	Animalia
i) Prokaryotes	i) Eukaryotes	i) Eukaryotes	i) Eukaryotes	i) Eukaryotes
ii) Unicellular or multicellular	ii) Unicellular	ii) Uni and multicellular	ii) Tissue/Organ	ii) Tissue/Organ/organ system
iii) Cell wall is made up of peptidoglycan and mucopeptides	iii) cellulose (some)	iii) Chitin and cellulose	iii) cellulose	iii) Absent

iv) Autotrophic and heterotrophic. v) Examples: Archaeobacteria. Eubacteria .etc.,	iv) Autotrophic and heterotrophic. v) Examples: molds, amoeba,etc.,	iv) Heterotrophic v) Examples: Yeast, Mushrooms etc.,	iv) Autotrophic v) Examples: Algae, Bryophytes etc.,	iv) Heterotrophic v) Examples: Vertebrates, invertebrates.
---	--	--	---	---

Merits

- i) It is based on complexity of cell structure and organization of thallus.
- ii) It is based on mode of nutrition.
- iii) Separation of fungi from plant.
- iv) It shows the phylogeny of the organisms.

Demerits

- i) Monera and Protista contain prokaryotic and eukaryotic organisms.
- ii) Monera and Protista contain autotrophs and heterotrophs.
- iii) Monera and Protista contain cell wall present and absent.
- iv) Viruses were not included in the system.

10. **Give a general account on lichens.****Ans:**

- The symbiotic association between algae and fungi is called lichens.
- The algal partner is called phycobiont or photobiont.
- The fungal partner is called mycobiont.
- Phycobiont provides food.
- Mycobiont provides protection and attachment to the substratum.
- Asexual reproduction through fragmentation, soredia, isidia, akinetes, hormogonia, aplanospores etc.,
- Sexual reproduction and produce ascospores.

Prepared by
Mr. P. Selvakumar. M.Sc., M.Phil., B.ed.,
Biology teacher,
Sri Sankara Matric Hir Sec School,
Valangaiman.

YOU TUBE CHANNEL

Available 10,11,12th Biology videos.



www.Padasalai.Net

படங்களை தொடுக! பாடசாலை வலைதளத்தை சமூக ஊடகங்களில் பின்தொடர்க!! உடனுக்குடன் புதிய செய்திகளை Notifications-ல் பெறுக!



YouTube



Zoom



Touch Below Links



Download!

12th Standard	Syllabus	Books	Study Materials – EM	Study Materials - TM	Practical	Online Test (EM & TM)
	Monthly Q&A	Mid Term Q&A	Revision Q&A	PTA Book Q&A	Centum Questions	Creative Questions
	Quarterly Exam	Half Yearly Exam	Public Exam	NEET		

11th Standard	Syllabus	Books	Study Materials – EM	Study Materials - TM	Practical	Online Test (EM & TM)
	Monthly Q&A	Mid Term Q&A	Revision Q&A	Centum Questions	Creative Questions	
	Quarterly Exam	Half Yearly Exam	Public Exam	NEET		

10th Standard	Syllabus	Books	Study Materials - EM	Study Materials - TM	Practical	Online Test (EM & TM)
	Monthly Q&A	Mid Term Q&A	Revision Q&A	PTA Book Q&A	Centum Questions	Creative Questions
	Quarterly Exam	Half Yearly Exam	Public Exam	NTSE	SLAS	

9th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Quarterly Exam	Half Yearly Exam	Annual Exam	RTE		

8th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Term 1	Term 2	Term 3	Public Model Q&A	NMMS	Periodical Test

7th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Term 1	Term 2	Term 3	Periodical Test	SLAS	

6th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Term 1	Term 2	Term 3	Periodical Test	SLAS	

1st to 5th Standard	Syllabus	Books	Study Materials	Periodical Test	SLAS	
	Term 1	Term 2	Term 3	Public Model Q&A		

Exams	TET	TNPSC	PGTRB	Polytechnic	Police	Computer Instructor
	DEO	BEO	LAB Asst	NMMS	RTE	NTSE

Portal	Matrimony	Mutual Transfer	Job Portal
---------------	---------------------------	---------------------------------	----------------------------

Volunteers	Centum Team	Creative Team	Key Answer Team
-------------------	-----------------------------	-------------------------------	---------------------------------

Downloads	LESSON PLAN	Department Exam	Income Tax	Forms & Proposals	Fonts	Downloads
	Proceedings	GO's	Regulation Orders	Pay Orders	Panel	



Padasalai – Official Android App – [Download Here](#)



Kindly Send Your Study Materials, Q&A to our Email ID – Padasalai.net@gmail.com