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	[Max. Marks: 7

ML-108

April-2018

B.Sc., Sem.-I

CC-3-101: Biotechnology (The Living World)

Tim	e : 3 I	B) Differentiate between the Prokaryotes and Eukaryotes. C) "All living organisms are composed of one or more cells". Explain.	
1.	Ans	wer any two of the following :	14
	(A)	Enlist the various theories of origin of life. Explain any one in detail.	
	(B)	Differentiate between the Prokaryotes and Eukaryotes.	
	(C)	"All living organisms are composed of one or more cells". Explain.	
	(D)	Discuss Whittaker's five kingdom classification with its merits and demerits.	
2.	Ansv (A) (B) (C)	wer any two of the following: Discuss the general characters of plants. Write a note on vascular tissues of the plant. Discuss the characteristics features of <i>Gymnosperm</i> .	14
	(D)		
	(D)	Describe the body organization in plants.	
3. Answer any two of the following:		wer any two of the following:	14
	(A)	Give an outline of animal kingdom.	
	(B)	Describe the types of adaptations to land by animals.	
	(C)	Discuss the Energy requirements of animals.	
	(D)	Explain how various activities are co-ordinated in the organisms.	
4	Ans	wer any two of the following:	14
	(A)	Discuss the economic importance of Fungi.	
	(B)	Explain the morphological characteristics of Algae.	
	(C)	Describe the reproduction in Viruses with suitable diagram.	
	(D)	Write a note on life in the extreme environment.	
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5. Answer the following:

- (1) What is implied by spontaneous generation of life theory?
- (2) Give two primary functions of stem in plants.
- (3) What are Protozoa?
- (4) Draw the labelled diagram of Chlorenchyma tissue.
- (5) Define Morphogenesis.
- (6) Name a fungi producing an antibiotic Penicillin.
- (7) What are Virusoid?
- (8) Give the full form of t-RNA.
- (9) Name the organelle known as "Powerhouse of the cell".
- (10) Define Diploblastic organization.
- (11) Define spores.
- (12) Give full form of TMV.
- (13) What is Y-M Shift?
- (14) All viruses have only RNA as their genetic material. True or false?



