Seat No.:	
-----------	--

OA-104

December-2016

B.Sc., Sem.-I

CC-3-101: Biotechnology

(The Living World)

Time: 3 Hours]		[Max. Marks: 70	
1.	Answer the following: (any two)		14
	(A)	Explain the concept of cell theory.	
	(B)	Write down in detail Whittaker's five kingdom classification.	
	(C)	Explain structure and function of chloroplast with figure.	
	(D)	Explain cell differentiation with examples.	
2.	Ansv	ver the following: (any two)	14
	(A)	Write a note on characteristics of vascular plants.	
	(B) ·	Write short note explaining morphogenesis.	
	(C)	Explain general characters of plants.	
	(D)	Write a brief note on primitive plants Bryophytes	
3.	Ansv	wer the following: (any two)	14
_,-,-,	(A)	Discuss outline of kingdom Animalia.	
	(B)	Explain features of advanced marine animal with example.	***
	(C)	Describe the organization of animal body.	
ς.	(D)	Discuss the importance of organs in animals.	
4.	4. Answer the following: (any two)		14
	(A)	Write a note on Prions.	
	(B)	Define and explain structure viroids with example.	
	(C)	Explain economic importance of fungi.	
	(D)	Write a note on characteristics and habitat of thermophiles.	
0	A-104		P.T.O.

Answer the following:

- (1) Give name of any fungi of two different class.
- (2) What is the function of mitochondria?
- (3) What is a protozoan?
- (4) Which thermophile produces Tay polymerase?
- (5) Give full name of TMV.
- (6) What is Mycology?
- (7) How do fungi take up nutrient?
- (8) What is tissue?
- (9) Give two name of product of algal origin.
- (10) What is the function of roots in plants?
- (11) Who discovered penicillin?
- (12) Give full name of RNA.
- (13) Give the name photosynthetic bacteria.
- (14) What is contribution of J.D. Watson?