MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION
B.Sc. (Agri.)

Semester	: I (New)	**Term**	: I	**Academic Year**	: 2015-16
Course No.	: PATH 111	**Title**	: **Introductory Plant Pathology**		
Credits	: 2(1+1)				
Day & Date	: Saturday, 12.12.2015	**Time**	: 10.00 to 12.00	**Total Marks**	: 40

Note : 1. Solve **ANY EIGHT** questions from **SECTION "A".**
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

SECTION "A"

Q.1 Define reproduction. Enlist sexual and asexual methods of reproduction in fungi and comments on asexual methods.

Q.2 What do you mean by fungus? Give general characteristics of fungi.

Q.3 Define disease. Explain in brief disease triangle.

Q.4 Write one important contribution of following scientists (Any four).

1) Robert Koch
2) Prof. Millardet
3) Carl Linnaeus
4) Anton Van Leeuwenhoek
5) Ivanowski
6) M. J. Thirumalachar

Q.5 Enlist different plant pathogenic organisms and write in brief about virus and protozoa.

Q.6 What are prokaryotes? Classify them up to division with one example of genus according to Bergey's manual.

Q.7 Write short notes (Any two).

1) Spore fruits in fungi
2) Binomial system of nomenclature
3) Gametangial contact

Q.8 Define plant pathology. What are the objectives of plant pathology? Explain in brief cell grouping in *bacilli*.

Q.9 Comments on the following (Any four).

1) Acervulus
2) Sclerotium
3) Endophytic mycelium
4) Cleistothecium
5) Flagellar arrangement in bacteria

Q.10 Write in brief modifications of thallus and hyphal aggregations in fungi.

SECTION "B"

Q.11 State True or False.

1) Fungi are eukaryotic in nature.
2) Binary fission is the most common asexual method of reproduction in bacteria.
3) *Loranthus* is complete stem parasite of trees.
4) Science which deals with study of algae is known as mycology.

Q.12 Match the following pairs.

"A"		"B"	
1)	P.A. Micheli	a)	Non-motile spores
2)	Powdery mildew	b)	Gram negative bacterium
3)	*Pseudomonas*	c)	Nova plantarum genera
4)	Aplanospores	d)	Ectophytic mycelium

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