MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc.	(Agri.)
D.St.	(Mgiii)

		B.Sc. (A	gri.)				
Semester	: III (New)	Term	: I	Academic Year	: 2016-17		
Course No.	: PATH 232	TELAT -	n	- cm			
Credits	: 2(1÷1)	Title	: Principle:	s of Plant Patholo	Plant Pathology		
Day & Date	: Friday, 18.11.2016	Time	: 9.00 to 11	.00 Total	Marks : 40		
Note:	1. Solve ANY EIGHT q	uestions fron	n SECTION "A	.".			
	2. All questions from SE	. All questions from SECTION "B" are compulsory.					
	3. All questions carry equ	ıal marks.					
	4. Draw neat diagrams w	herever nece	ssarv.				

SECTION "A"

- Q.1 Define pathogenesis. Give the role of enzymes and toxins in pathogenesis.
- Q.2 Enlist continuous and discontinuous dissemination types and describe continuous dissemination.
- Q.3 Describe in detail mode of perpetuation in plant pathogen.
- Q.4 Differentiate between (Any two).
 - 1) Host-specific and Non-host specific toxins
 - 2) Horizontal resistance and vertical resistance
 - 3) Simple interest disease and compound interest disease.
- Q.5 Define epidemiology and describe on the essential conditions for development of an epiphytotic.
- Q.6 Enlist general principles of plant disease management and describe eradication method.
- Q.7 Describe pre-existing structural barriers faced by the pathogen after gaining entry into host.
- Q.8 Comments on the following (Any two).
 - 1) Plant disease forecasting
 - 2) Mechanism of infection by various pathogens
 - 3) Advantages of integrated plant disease management
- Q.9 Describe various avenues of penetration in plant pathogen.
- Q.10 Write short notes on (Any two).
 - 1) Role of alternate host in plant disease
 - 2) Phytoalexins
 - 3) Tyloses

SECTION "B"

- Q.11 Define the following terms.
 - 1) Biotroph

2) Inoculum

3) Hypersensitivity

4) Epidemic disease

- Q.12 Do as directed.
 - 1) Oospore is not a resting spore of downy mildew fungus plasmophica purasitica. (State True or False)
 - 2) Give full form of the DIPA.
 - 3) Name the toxin produced by Pyricularia oryzae.
 - 4) What do you mean by disease?
