MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: IV (New)	**Term**	: II	**Academic Year**	: 2014-15
Course No.	: PATH 243	**Title**	: Diseases of Field Crops and Their Management		
Credits	: 3 (2+1)				
Day & Date	: Friday, 08.05.2015	**Time**	: 14.00 to 17.00	**Total Marks**	: 80

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 Quote any three major diseases of sunflower with their pathogen and describe the symptoms of sunflower necrosis disease.

Q.2 Enlist the important viral diseases of field crops and narrate in brief about sterility mosaic disease in pigeon pea.

Q.3 Enlist the different rusts of wheat and narrate in brief about their symptoms.

Q.4 a) Enlist the major diseases of soybean caused by fungi, enumerate the symptoms and management strategies for rust of soybean.

b) Describe in detail the smut of sugarcane.

Q.5 Describe the symptoms and management strategies for Sesamum Phyllody.

Q.6 Write short notes on (Any two).

1) Anthracnose of soybean
2) Grassy shoot of sugarcane
3) Ergot of pearl millet
4) Loose smut of wheat

Q.7 a) Enlist any three important diseases of rice and describe the symptoms and management strategies for bacterial blight.

b) What are diagnostic symptoms of rhizome rot and the measures to be adopted for management?

Q.8 Enlist the diseases of cotton and enumerate the symptoms and control measures for grey mildew.

Q.9 Enlist the downy mildew pathogens causing diseases in cereals and write the symptoms of green ear disease in pearl millet.

Q.10 Enlist important ear head diseases with a causal pathogens and write in detail about the grain mold of sorghum.

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SECTION "B"

Q.11 Match the following pairs.

"A"	"B"
1) Leaf blotch of turmeric	a) *Erysiphe polygoni*
2) Bud necrosis	b) ICP-8863
3) Red gram wilt	c) Ergot fungi
4) Cleistothecium	d) Tomato spotted wilt virus
5) Leaf spot in groundnut	e) *Tapharina maculans*
6) BSMR-736	f) *Aphis craccivora*
7) Ascospores in stroma	g) *Cercospora arachidicola*
8) Chickpea stunt	h) Sterility mosaic of pigeonpea

Q.12 Fill in the blanks.

1) Whip smut of sugarcane is caused by_____.
2) Leaf curl of tobacco is caused by_____.
3) Phyllody in sesamum is transmitted by_____.
4) "Kresek phase" bacterial blight occurs in_____crop.
5) Alternate host of black stem rust of wheat is_____.
6) Rust of linseed is caused by_____.
7) Fusarium oxysporum perpetuate in soil in the form of_____.
8) Wheat bunt is caused by_____.

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