MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: IV (New)	**Term**	: II	**Academic Year**	: 2012-13
Course No.	: PATH 243	**Title**	: Diseases of Field Crops and Their Management		
Credits	: 3 (2+1)				
Day & Date	: Tuesday, 16.04.2013	**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 Enlist the different rust of wheat along with causal organism and narrate in brief about their symptoms and alternate host.

Q.2 a) Enlist diseases of cotton along with causal organism. Write in short about red leaf blight of cotton.

b) Write in detail leaf spot of turmeric.

Q.3 a) Write symptoms, causal pathogen and transmission of mosaic of tobacco and leaf curl of tobacco.

b) Enlist diseases of safflower and describe in short about wilt of safflower.

Q.4 Enlist different smut diseases of sorghum with causal organism and write in brief about their symptoms and management.

Q.5 Write symptom, transmission, causal organism and management of following diseases. (Any Two)

1) Bud necrosis of groundnut
2) Grassy shoot of sugarcane
3) Rice tungro disease

Q.6 a) Write management of following diseases.

1) Powdery mildew of green gram
2) Wilt disease of redgram
3) Wilt of gram
4) Red rot of sugarcane

Q.7 a) Write in detail about anthracnose of soybean.

b) What is mean by autocious rust? Write examples of autocious rust of field crop and write in short about linseed rust.

Q.8 Write seed treatment for following diseases.

1) Loose smut of wheat
2) Black arm of cotton
3) Whip smut of sugarcane
4) Blast disease of paddy

Q.9 Write symptoms and management of following diseases.

1) Downy mildew of sunflower
2) Ergot of Bajra
3) Blight of rice
4) Tikka of groundnut

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Q.10 a) Write in short about Sesamum phyllody.

b) Write symptoms and management of blast of ragi and downy mildew of maize.

SECTION "B"

Q.11 Match the pairs.

"A"	"B"
(1) *Aphis crassivora*	(a) Grey mildew
(2) BSMR-736	(b) *Colletotrichum gossypii*
(3) *Ramularia areola*	(c) Soybean rust
(4) *Ustilago maydis*	(d) Ergot fungi
(5) Tobacco streak virus	(e) Sterility mosaic of pigeonpea
(6) *Phakospora pachyrhizi*	(f) Sunflower necrosis
(7) Ascospores in stroma	(g) Chick pea stunt
(8) Acervulus with setae	(h) Smut of maize
	(i) Downy mildew

Q.12 Fill in the blanks.

1) Most destructive phase of bacterial blight of paddy is _____.

2) _____ is the alternate host of bajra rust.

3) Sexual spore of *Taphrina maculans* are _____.

4) *Fusarium oxysporum* perpetuate in soil in the form of _____.

5) Perfect stage of Sphacelia sorghi is _____.

6) Secondary spread of finger millet blast conidia occurs by _____.

7) Wheat bunt is caused by _____.

8) *Ustilaginoidea virens* causes _____ disease in rice.

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