MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: **IV (New)**				
Course No.	: PATH 243	**Term**	: **II**	**Academic Year**	: **2016-17**
Credits	: 3 (2+1)	**Title**	: **Diseases of Field Crops and Their Management**		
Day & Date	: Thursday, 27.04.2017	**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 a) Enlist the diseases of bajra along with name of causal organism.

b) Describe various symptoms, primary and secondary sources of infection of downy mildew of bajra.

Q.2 Enlist the diseases of cotton and describe symptoms and control measures of wilt of cotton.

Q.3 Quote any three diseases of rice and describe symptoms and management of blast disease.

Q.4 Enlist three major diseases of sunflower and describe symptom and management of Alternaria leaf blight.

Q.5 Describe in detail the causal organism, symptoms and management strategies for black stem rust of wheat.

Q.6 Enlist different smut fungi of sorghum and enumerate the symptom and management of grain smut.

Q.7 Enlist diseases of groundnut caused by fungi and write symptoms, sources of infection and management of tikka disease.

Q.8 Describe the symptoms, etiology, primary and secondary sources of infection and management strategies for smut of sugarcane.

Q.9 Write short notes in respect to symptoms and management (Any Two) :

1) Smut of maize

2) Sesamum Phyllody

3) Leaf blight of safflower

Q.10 a) Describe symptoms and management of wilt of pigeon pea.

b) Describe symptoms and management of powdery mildew of green gram.

(P.T.O.)

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SECTION "B"

Q.11 Match the following pairs.

"A"	"B"
1) False smut of rice	a) *Colletotrichum truncatum*
2) Blast of ragi	b) *Ustilagnoidea virens*
3) Black rust of wheat	c) *Ectophytic mycelium*
4) Yellow mosaic of green gram	d) *Phakopsora pachyrhizi*
5) Leaf blotch of turmeric	e) White fly
6) Rust of soybean	f) *Taphrina maculans*
7) *Erysiphe polygoni*	g) Barberry
8) Anthracnose of soybean	h) *Pyricularia grisea*

Q.12 Fill in the blanks.

1) 'Kresek' is the important symptom of _____ disease of rice.
2) Leaf curl of green gram is transmitted by _____.
3) Purple blotch of onion is caused by _____.
4) Stunt disease of chickpea is caused by _____.
5) Tobacco mosaic virus is transmitted through _____.
6) Nicotiana virus-10 causes _____ disease in tobacco.
7) The wilt pathogen of cotton produces _____ vegetative type spores.
8) Loose smut of wheat is caused by _____.

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