

M.Sc. (Ag.) Plant Protection Examination 2015

Semester -II

Course : PPC - 505

(Diseases of Field Crops and Their Management)

Time : Three Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. List the important diseases of rice in West Bengal with their causal organisms. Discuss in detail about the symptoms, aetiology, survival mechanism, spread and management of sheath blight **or** bacterial leaf blight disease of rice. 3+7=10
 2. Name four diseases of oilseed crops (not more than one disease from one crop) with their causal agents. Write briefly about the symptoms, disease cycle and management of any one of them. 4+6=10
 3. Name four important viral diseases of field crops prevalent in West Bengal condition (not more than one disease from one crop). Write briefly about symptoms, aetiology, transmission and management of an important viral disease of rice. 2+8=10
 4. Write briefly about the symptoms, aetiology and management of stem rot of jute and yellow mosaic of green gram. 5+5=10
 5. Write briefly about the symptoms, aetiology and management of red rot disease of sugarcane and black rust of wheat. 5+5=10
 6. Write briefly on the following (**any two**): 5×2=10
 - (a) *Khaira* disease of rice
 - (b) Cotton parawilt disease
 - (c) One viral disease of groundnut
 - (d) Loose smut of wheat
 7. Answer **any two** of the following : 5×2=10
 - (a) Wilt of pigeonpea (aetiology and management)
 - (b) Stalk rot of maize (symptoms and epidemiology)
 - (c) Tobacco leaf curl (symptoms and aetiology)
 - (d) Grassy shoot of sugarcane (symptoms and management)
 - (e) Uniflagellate protozoa as plant pathogen.
 8. Write short notes on the following (**any four**): 2.5×4=10
 - (a) Ergot of bajra (causal organism and symptoms)
 - (b) Angular leaf spot of cotton (symptoms and management)
 - (c) *Casputa* sp. and *Striga* sp.
 - (d) One viral disease of pigeonpea (symptoms and transmission)
 - (e) Sesame phyllody (causal organism and symptoms)
 - (f) Earcockle of wheat (causal complex and symptoms)
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