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KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Ag. 2015 Admission

V Semester Final Examination-March-2018

Path.3103

Disease of Field Crops and their Management (2+1)

Marks: 50 Time: 2 hours

(10x1=10)Fill in the blanks ----is called Night Queen disease of rice. 1 -----disease of wheat has strict international quarantine measures for its trade. 2 Vector of groundnut bud necrosis is-----3 The toxin responsible for the wild fire disease of tobacco is-----4 A geminivirus disease in cassava transmitted through white flies is-----5 State True or False and if false, correct it Rice Tungro disease is caused by phytoplasma and is transmitted by jassids. 6 Sulfur fungicides are generally recommended for the management of downy mildew 7 diseases of vegetables. . Bemisia tabaci transmits Begomoviruses having ssRNA in a semi-persistent manner. 8 Ug99 is a Puccinia recondita f.sp. tritici race causing yellow rust disease in wheat. 9 Udbatta and false smut are present in epidemic form in all rice growing tracts of Kerala. 10 Write Short notes on ANY FIVE of the following II Note: Write the causal organism, the most important and diagnostic symptoms of the disease (in one sentence only) and a specific systemic fungicide/chemical with its dosage used for its management 1 Red rot of sugarcane 2 Kresek of rice Downy mildew of cucurbits 3 Stenosis of cotton 4 5 Damping off of tobacco Stem rust of wheat 6 Basal swelling and root rot of cowpea 7 (5x4=20)Answer ANY FIVE of the following III Downy mildew diseases in cereals and millets 1 Viral and phyto plasmal diseases of rice and their management. 2 Black shank of tobacco. 3 Red rot of sugarcane. 4 Diseases caused by Begomoviruses in field and vegetable crops. 5 Differentiate different smut diseases of sorghum based on their symptoms 6 Black arm of cotton 7

Write an essay on ANY ONE of the following IV

(1x10=10)

- Explain the symptoms, etiology, mode of spread, survival and management of rice blast. 1 Neatly draw the disease cycle also depicting the life cycle of the pathogen.
- List out different diseases affecting potato with their causal organisms. Explain the 2 symptoms, etiology, and mode of spread, survival and management of late blight of potato. Neatly draw the disease cycle including pathogen's life cycle.
