

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

Semester -II

**Course : PPC - 511
(Postharvest Pathology)**

Time : Three Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. Explain the concept of postharvest pathology. How does it conceptually differ from market pathology? Explain with examples the significance of study of postharvest pathology of perishables. Briefly point out the history of postharvest pathology of perishables. 2+1.5+2.5+4=10
2. What is postharvest loss and how can you study them? Write an account of postharvest loss profile of perishable produces. Classify the causes of postharvest losses of perishables with examples. 1.5+1.5+5+2=10
3. Prepare a list of fifteen postharvest diseases of fruits and vegetables alongwith causal organism or cause, by considering not more than three diseases from a single crop. 10
4. Describe any one disease each of mango, apple and citrus with reference to distribution, symptoms and aetiology (Three different pathogenic genera are to be considered)

OR

- Describe the symptoms and aetiology of four important postharvest diseases of tomato or curcubitaceous vegetables. 10
5. Explain the host pathogen interaction of postharvest pathosystems in terms of pathogen enzymes and toxins or changes in host physiology due to pathogenic invasion. 10
 6. How do postharvest pathogens make entry into the host and disseminate subsequently? Explain them with suitable examples. 10
 7. Write a note on chemical or biological control of postharvest diseases of fruits and vegetables. 10
8. Write short notes on **any four** of the following : 2.5×4=10
- (a) Field pathogens of postharvest importance
 - (b) Temperature as an epidemiological factor of postharvest pathogenesis
 - (c) Methods of postharvest diseases management
 - (d) Association among postharvest pathogens
 - (e) Dry rot of potato
 - (f) Postharvest diseases of zinger
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