

**H.P.BOARD OF DEPARTMENTAL EXAMINATION
DEPARTMENTAL EXAMINATION FOR OTHER GAZETTED OFFICERS/
OFFICIALS OF HIMACHAL PRADESH SESSION NOVEMBER, 2009**

PAPER-4 (FOOD, CIVIL SUPPLIES & CONSUMER AFFIARS DEPARTMENT)

Time Allowed: 3 Hours.

Maximum Marks: 100

Note:- 1. Attempt any five questions.

2. All questions carry equal marks.

- Q.No.1 What are the factors affecting the storage of food grains? Explain in detail. **(20 Marks)**
- Q.No.2 (i) Write the scientific name, order and family of rice weevil? **(14 Marks)**
(ii) What are the identification characteristics, type of damage, habits and life History of Callosobruchus maculates? **(6 Marks)**
- Q.No.3 Define the following:-
(i) Small broken (ii) Weevilled grains (iii) Dehusked grains
(iv) Slightly damaged grains (v) Admixture of lower classes (vi) Alcoholic acidity
(vii) Medium broken (viii) Red grains (ix) Chalky grains
(x) Inorganic foreign matter **(2 x 10= 20 Marks)**
- Q.No.4 Explain quality control procedure at procurement point and at the time of Storage. **(20 Marks)**
- Q.No.5 Write the definitions of the following:-
(i) Primary Food (ii) Food (iii) Adulterated Food
(iv) Adulterant (v) Manufacturer **(4 x 5 = 20 Marks)**
- Q.No.6 (i) Write order, family, scientific name and common name of three avian pests?
(ii) What is the biology of rats? **(8 + 12= 20 Marks)**
- Q.No.7 (i) What are precautions to use the pesticides?
(ii) Explain prophylactic & curative treatment to control insect pests of stored Grains. **(6 + 14= 20 Marks)**
- Q.No.8 What are the external factors effecting the efficacy of fumigants? **(20 Marks)**
- Q.No.9 What are the methods of sampling of food grains? Explain in detail. **(20 Marks)**
- Q.No.10 (i) Define uniform specifications for Indian rice Grade 'A' for Kharif Marketing Season 2009-10.
(ii) Explain analysis procedure of Dehusked grains. **(14 + 6 = 20 Marks)**
