# H.P.BOARD OF DEPARTMENTAL EXAMINATION DEPARTMENTAL EXAMINATION OF OTHER GAZETTED OFFICERS/OFFICIALS (NON-TECHNICAL) OF HIMACHAL PRADESH SESSION MAYJUNE, 2009.

# PAPER-4 (FOOD CIVIL SUPPLIES & CONSUMER AFFIARS DEPTT.)

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 various factors, which play a crucial Storage life of the agricultural produce? Explain	
Q.No.II (i) Write the scientific name. order and family of Kh (ii) What are the identification characteristics, type of History of Red rust flour beetle?	•
Q.No.III Fill in the blanks:-  (i) The development of insects retards below	
Q.No.IV Write short notes on the following:- (i) Toxic Weed Seeds. (ii) Toxic varieties of edible food grains.	(2 x 10= 20 marks)
Q.No.V (i) What is the difference between dose and dosage?  (ii) What are the characteristics of an ideal fumigant (iii) Write mode of action of Malathion.	
Q.No.VI Write short note on:- (i) Storage fungi. (ii) Chemical methods for rodent control. (iii) Bird pest management	(7 marks) (7 marks) (6 marks)

## Q.No.VII Define the following:-

- (i) Usual examination of sample
- (ii) Deep bin probe.
- (iii) Bag trier
- (iv) Primary sample

 $(5 \times 4 = 20 \text{ marks})$ 

# Q.No.VIII What do you mean by the following terminology:-

- (i) Dal
- (ii) Organic foreign matter
  - (iii) Shriveled grains
  - (iv) Refractoions
  - (v) Ergoty grains
  - (vi) Degree of milling
  - (vii) Discoloured grains
  - (viii) Chalky grains
  - (ix) Millets
  - (x) Small brokens

(2x 10 = 20 marks)

## Q.No.IX Write short note:-

(i) Quality control at the time of storage of food grains.

**(10 marks)** 

(ii) Analysis procedure of rice.

**(10 marks)** 

## Q.No.X Write short note on:-

- (i) Bureau of Indian Standard & its role in maintenance of quality control of food Grains. (10 marks)
- (ii) Explain Biochemical and nutritional changes in food grains during storage.

**(10 marks)** 

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