

HIMACHAL BOARD OF DEPARTMENTAL EXAMINATIONS
DEPARTMENTAL EXAMINATION FOR OTHER GAZETTED
OFFICERS OF HIMACHAL PRADESH

APRIL, 2017

Paper No.4 Food, Civil Supplies & Consumer Affairs

Time Allowed: 3 Hours

Maximum marks:100

Note: i) Attempt any Five questions

ii) All questions carry equal marks

iii) Bare acts, rules and orders are not allowed in the examination hall.

Q. No.I (i) Define foodgrains. What are the properties of the foodgrains? 2+8

(ii) What are the factors affecting the storage of foodgrains? 10

Q. No.II (i) What do you mean by primary and secondary insects? Explain life cycle of insects. 6+8

(ii) Write scientific name and family of any two of the following insects:

3x2

- a) Rice Weevil
- b) Lesser Grain Borer
- c) Red Flour Beetle

Q. No.III What are micro-organisms? What are their characteristics and measures to control them? 8+12

Q. No.IV Define the following:-

- | | |
|------------------|-----------------------------|
| i) Refractions | ii) Discolored grains |
| iii) Broken | iv) Foreign matters |
| v) Chalky grains | vi) Varietal Admixture 2x10 |
| vii) De-husked | viii) Touched grains |
| ix) Red grains | x) Insects damaged |

P.T.O.

- Q. No.V (i) What are fumigants? Give the properties of an ideal fumigant. 5+10
- (ii) Write mode of action of ALP Aluminum Phosphide. 5
- Q. No.VI Write a note on rat behavior? What are the methods of rodents control in foodgrain godown. Explain in detail. 5+15
- Q. No.VII What preventive and curative measures are to be taken for pest management in foodgrains storage? 20
- Q. No.VIII (i) What do you understand by bag and bulk storage?
- (ii) What is an ideal godown? Explain. 10+10
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- Q. No.IX Define the following:
- | | |
|-------------------|-------------------|
| i) Diffusion | ii) Bait |
| iii) Dose | iv) Dosage |
| v) Antidotes | vi) MSP |
| vii) Rodenticides | viii) Wet heating |
| ix) CAP | x) Dal |
- 2x10
