

The Islamia University of Bahawalpur
University College of Agriculture and Environmental Sciences
Department of Entomology

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| Final Term | Stored Product Pests and their Management | Exam |
| Max Marks | ENT-508 | 28 (20+8 sessional) |
| Time Allowed | Theory | 1.0 hours |

Note: SOLVE ALL QUESTIONS ON ANSWER SHEET INCLUDING Q.NO. 1

Q1. Fill in the blanks with appropriate words (4.0)

1. Technical name of Indian meal moth is
2. Technical name of drug store beetle is
3. is technical name of pulse beetle
4.are poikilothermic organisms
5. is the mostly widely used method of control of storage insect pests
6.is a storage insect pest which can thrive well at 35⁰C and with relatively low R.H.
7. Storage insects cause quantitative as well asloss in stored grains
8. A 3.0 gram phosphine tablet emitsgram gas upon contact with ambient air

Q2. Describe taxonomy, identification and life history/mode of feeding by following pests (8.0)

- a. Indian meal moth b. Liposcelididae

Q3. Describe identification, life history and taxonomy of khapra beetles (4.0)

Q4. Describe different management options and fumigation principles for storage insect pest management (4.0)

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| Final Term | Stored Product Pests and their Management | Exam |
| Max Marks | ENT-508 | 20 (16+4sessional) |
| Time Allowed | Practical | 1.0 hours |

Q1. Describe taxonomy, identification and life history/mode of feeding by following pests (8.0)

- b. Rice weevil b. Lesser grain borer

Q2. Describe different types of storage structures in Pakistan for storage of harvest (4.0)

Q3. Determine volume of below shown cylinder based on following information (4.0)

Height: h: 3 meter; Diameter: d: 1 meter. How many number of aluminum phosphine tablets of 3.0 gram weight would be required to fumigate this cylinder if recommended dose is 1.5 gram/meter³