

## Chapter-IV

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### Conclusions

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Thus the synthesized of nicotinic acid derivative were screened for their insecticidal and antibactericidal activities on a respective organisms for the controlling program of pest and microbes. It has been observed that the compound Sr. No. 3c i.e. nicotinic acid hydrazones containing p-chlorobenzaldehyde found more useful for controlling pests and microbes.

The compounds 2b, 3c, 6f and 9i showed promising control against *M. persicae*, *H. armigera* and stored grain pest *sitophiles zeamay*. Among these compounds: 1a, 2b, 3c, 6f and 9i gave spectacular results against *Myzus persicae*. where as compound 6f and 8h gave promising results against *H. armigera*. The compound 3c and 4d have shown promising activity against *S. zeamay*.

The compounds 3c, 7g, 8h, 9i and 10j exhibited promising antimicrobial activity on *A. niger* again where as compounds 3c, 4d and 6R showed moderate to good activity against *P. flurous*, can be considered as the pest control agents.