TOPIC -14

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SELECTED BY ANALYSING PREVIOUS YEAR QUESTION PAPER.



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Which entomopathogenic Fungi plays an important role as biological control agent in controlling Cotton bollworm? (IBPS AFO 2019-20)

- **Helicoverpa armigera**
- **Beauveria bassiana**
- **Metarhizium anisopliae**
- **Spodoptera litura**
- **Verticillium**

ANS:- Beauveria bassiana



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Answer with Explanation

Biological control of Cotton Bollworm

- The endophytic fungal entomopathogens **Beauveria bassiana** and **Purpureocillium lilacinum** enhance the growth of cultivated cotton **(Gossypium hirsutum)** and **acts as biological control agent** by **negatively affecting** the survival of **American cotton bollworm (Helicoverpa zea). (IBPS AFO 2019-20)**

- Many fungal insect pathogens can also colonize plants as endophytes.

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- Endophytic **Beauveria bassiana** and **Purpureocillium lilacinum** enhance cotton growth by reducing the survival of **American cotton bollworm (Helicoverpa zea)** larvae.

- Manipulating fungal endophytes can play a role in sustainable **IPM strategies.**



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