

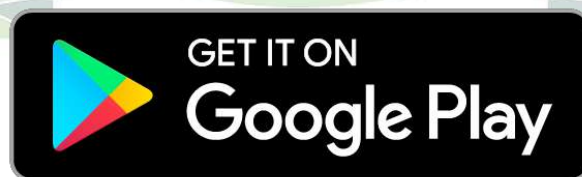
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**Agriculture MCQ Part-155**

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**# The use of X-ray irradiated flies for pest management is an example of:**

**a. Sterile male release**

b. Neoplasia induction

c. Mutant proliferation

d. Environmental hazards

**#What is the mode of action of organophosphate insecticides?**

a. Chitin-synthesis inhibition

b. Mixed-function oxidase inhibition

c. Physical suffocation d. Acetylcholinesterase inhibition

**e. Changing the ion permeability of membranes**

**#More than 500 species of insects are currently resistant to one or more pesticides. How are insects able to resist the toxic action of pesticides?**

a. Cross-resistance

b. Mixed-function oxidases

c. Behavioral adaptations

d. Physiological changes at the level of the target site

**e. All of the above**

**# Ants are:**

a. The largest group of social insects (ca. 9,000 described species)

b. The only social insects in the order Hymenoptera

c. The only group of insects to be found in the fossil record

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d. a. and b.

**e. None of the above**

**#The greatest threat to biodiversity in terms of the percentage of species affected is:**

a. Habitat degradation

b. Disease

c. Overexploitation

**d. Pollution**

e. None of the above

**#Mutualisms have evolved between:**

a. Ants and bees (particularly Africanized Honey Bees)

b. Ants and termites (e.g., the Formosan termite that has invaded Hawaii)

**c. Ants and plant feeding insects that produce honeydew (e.g., aphids and scale insects)**

d. Ants and plants that provide rewards in the form of food (e.g., extrafloral nectar)

e. (c) and d.

**#The notion that preservation of one species (often a “charismatic” organism that acts as a “flagship species”) may aid in the preservation of many others is often called:**

a. A „habitat saver“

b. The „umbrella effect“

c. the „conservation strategy“

d. A „non-target effect“

**e. All of the above**

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### **#Current uses of genetically modified organisms include:**

a. Glyphosate (Roundup) resistant plants

### **b. Insect resistant plants expressing the Bacillus thuringiensis (Bt) endotoxin gene**

c. Enhanced microbial pesticides, e.g., baculoviruses expressing scorpion toxin genes

d. Production of vaccines

e. All of the above

### **#Pathogen derived resistance refers to:**

a. Use of Bacillus thuringiensis endotoxin against Colorado Potato Beetle

b. Use of genes from a virus to protect a plant from a very similar or homologous virus isolate

c. Coat protein mediated cross protection

**d. a. and c.**

e. b. and c.

### **#The highest, or most developed, form of sociality among insects is referred to as:**

a. Subsocial

b. Semisocial

**c. Eusocial**

d. Communal

e. Quasisocial

### **#Some of the evolutionary advantages of social behavior include:**

a. Improved resource acquisition

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- b. Improved defense
- c. Improved survival of offspring
- d. reduced stinging requirements

**e. a., b. and c.**

### **#Worker honey bees in a colony:**

- a. Are all sterile females
- b. Have the same mother
- c. Are diploid
- d. Are haploid

**e. a., b. and c.**

### **#Honey bee caste determination is:**

- a. Is age related and regulated genetically and hormonally
- b. Is regulated by photoperiod and temperature

**c. Is regulated by the waggle dance**

- d. Is determined by pesticides in the environment
- e. All of the above

### **#Termites differ from honeybees in that they:**

- a. Are haplo-diploid
- b. Have no males
- c. Are diploid
- d. Have a fertile queen and king in each colony

**e. c. and d.**

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### **#Family of the Droscha magniferae:**

**a. Coccidae**

b. Aleurodidae

c. Aphididae

d. Pyralidae

### **#The two most important structural insect pests in urban situations are:**

a. Moths and butterflies

b. Spiders and scorpions

c. Beetles and flies

**d. Termites and ants**

e. None of the above

### **#Family of the Emmalocera deprcsella:**

a. Chrysomelidae

**b. Pyralidae**

c. Anobiidae

d. Noctuidae

### **#Family of the Spodoptera litura:**

a. Chrysomelidae

b. Pyralidae

c. Anobiidae

**d. Noctuidae**

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### **#Family of the Pectinophora gossypiella:**

a. Tenebrionidae

b. Noctuidae

**c. Gelechiidae**

d. Aphididae

### **#Approaches to biological control tactics include classical, augmentative and conservation. Classical biological control is the:**

a. Preservation of natural enemies (predators & parasitoids) that are already established in an area

b. Importation and release of an insect pest to a new area to provide hosts for natural enemies

c. Culture and release of natural enemies that are already established in the field, but that need a “boost” to effectively control the insect pest species

**d. Importation and release of natural enemies from the native home of an alien insect pest that has invaded a new area**

e. Use of chemical insecticides to reduce alien insect pests to establish new equilibrium position

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