

# MCAER Mock Test

## Topic: Entomology-1

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1. The study of insects is called:

- a) Pathology
- b) Agronomy
- c) Entomology
- d) Zoology

**Answer:** c) Entomology

2. The outer covering of an insect's body is called:

- a) Endoskeleton
- b) Exoskeleton
- c) Carapace
- d) Cuticle

**Answer:** b) Exoskeleton

3. The mouthparts of a butterfly are:

- a) Biting and chewing
- b) Piercing and sucking
- c) Sponging
- d) Siphoning

**Answer:** d) Siphoning

4. The number of legs in adult insects is:

- a) 4
- b) 6
- c) 8
- d) 10

**Answer:** b) 6

5. Which is the largest order of insects?

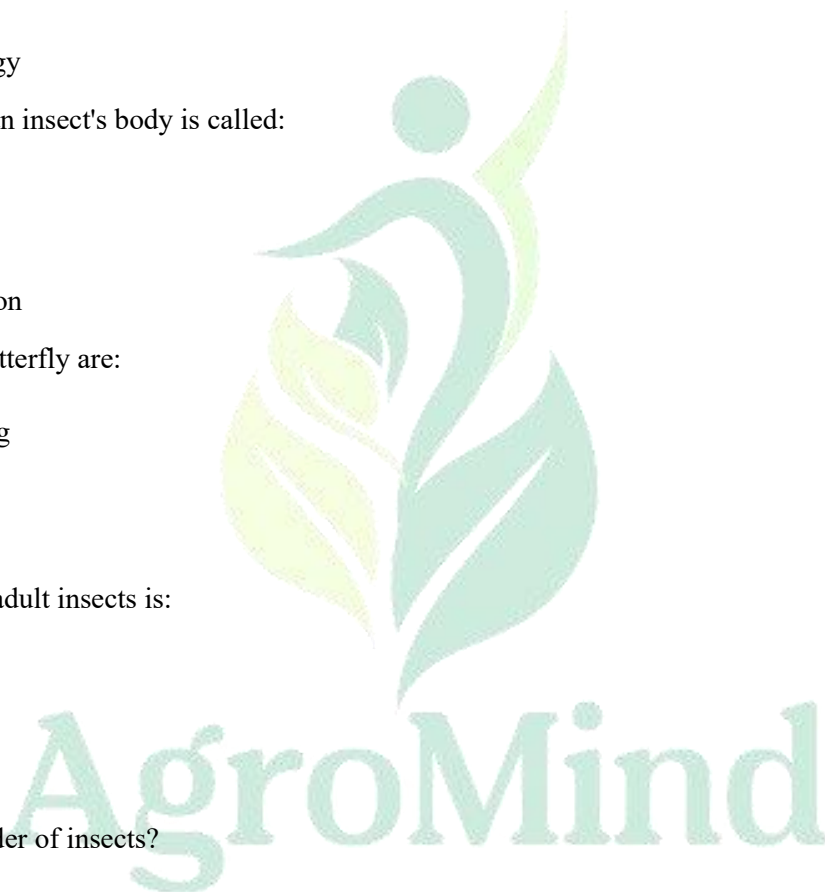
- a) Lepidoptera
- b) Coleoptera
- c) Orthoptera
- d) Hemiptera

**Answer:** b) Coleoptera

6. In insects, the respiratory system consists of:

- a) Lungs
- b) Tracheae
- c) Gills
- d) Skin

**Answer:** b) Tracheae



7. The silk of silkworm is secreted by:

- a) Malpighian tubules
- b) Salivary glands
- c) Anal glands
- d) Sweat glands

**Answer:** b) Salivary glands

8. The process of shedding the old cuticle is known as:

- a) Metamorphosis
- b) Molting
- c) Sclerotization
- d) Pupation

**Answer:** b) Molting

9. The immature stage of grasshoppers is called:

- a) Nymph
- b) Larva
- c) Pupa
- d) Caterpillar

**Answer:** a) Nymph

10. The function of Malpighian tubules in insects is:

- a) Digestion
- b) Respiration
- c) Excretion
- d) Circulation

**Answer:** c) Excretion

11. The order Lepidoptera includes:

- a) Beetles
- b) Butterflies and moths
- c) Flies
- d) Grasshoppers

**Answer:** b) Butterflies and moths

12. Which insect acts as a vector for malaria?

- a) *Culex mosquito*
- b) *Aedes mosquito*
- c) *Anopheles mosquito*
- d) Tabanus fly

**Answer:** c) *Anopheles mosquito*

13. Whiteflies belong to which order?

- a) Diptera
- b) Hemiptera
- c) Lepidoptera
- d) Coleoptera

**Answer:** b) Hemiptera

14. The scientific name of the cotton bollworm is:

- a) *Helicoverpa armigera*
- b) *Spodoptera litura*



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c) *Plutella xylostella*

d) *Earias insulana*

**Answer:** a) *Helicoverpa armigera*

15. Which insect is known as the "King of Insects"?

a) Honeybee

b) Termite

c) Ant

d) Butterfly

**Answer:** a) Honeybee

16. Which insect is responsible for lac production?

a) *Apis mellifera*

b) *Kerria lacca*

c) *Bombyx mori*

d) *Lymantria obfuscata*

**Answer:** b) *Kerria lacca*

17. The most beneficial pollinator insect is:

a) Ant

b) Butterfly

c) Honeybee

d) Beetle

**Answer:** c) Honeybee

18. Which insect damages stored grains?

a) *Helicoverpa armigera*

b) *Tribolium castaneum*

c) *Bactrocera dorsalis*

d) *Papilio demoleus*

**Answer:** b) *Tribolium castaneum*

19. Red cotton bug is a serious pest of:

a) Sugarcane

b) Cotton

c) Wheat

d) Rice

**Answer:** b) Cotton

20. Which insect is used in biological control of pests?

a) Ladybird beetle

b) Rice weevil

c) Aphid

d) Bollworm

**Answer:** a) Ladybird beetle

21. The concept of Integrated Pest Management (IPM) was first introduced by:

a) India

b) USA

c) Japan

d) China

**Answer:** b) USA



22. Which chemical is used as a fumigant in stored grain pest management?

- a) Malathion
- b) Phosphine
- c) Endosulfan
- d) Carbaryl

**Answer:** b) Phosphine

23. *Bacillus thuringiensis* (Bt) is effective against:

- a) Aphids
- b) Lepidopteran larvae
- c) Whiteflies
- d) Thrips

**Answer:** b) Lepidopteran larvae

24. Which trap is used to monitor moth pests in crops?

- a) Sticky trap
- b) Light trap
- c) Pheromone trap
- d) Pitfall trap

**Answer:** c) Pheromone trap

25. Which of the following is a systemic insecticide?

- a) Malathion
- b) Carbaryl
- c) Imidacloprid
- d) DDT

**Answer:** c) Imidacloprid

26. Social insects include:

- a) Butterflies
- b) Ants
- c) Beetles
- d) Grasshoppers

**Answer:** b) Ants

27. The honeybee dance used to locate food is called:

- a) Round dance
- b) Tail dance
- c) Waggle dance
- d) Side dance

**Answer:** c) Waggle dance

28. Which insect exhibits parthenogenesis?

- a) Honeybee
- b) Whitefly
- c) Butterfly
- d) Grasshopper

**Answer:** b) Whitefly

29. Which insect pest is a vector for leaf curl virus in cotton?

- a) Aphid
- b) Whitefly

- c) Jassid
- d) Thrips
- Answer:** b) Whitefly

30. The phenomenon of population explosion of a pest due to pesticide application is called:

- a) Resistance
- b) Pest resurgence
- c) Secondary pest outbreak
- d) Tolerance

**Answer:** b) Pest resurgence

31. The body of an insect is divided into how many regions?

- a) Two
- b) Three
- c) Four
- d) Five

**Answer:** b) Three (Head, Thorax, Abdomen)

32. Which part of the insect's body bears the legs and wings?

- a) Head
- b) Thorax
- c) Abdomen
- d) Antennae

**Answer:** b) Thorax

33. Which is the sensory organ in insects?

- a) Wings
- b) Antennae
- c) Legs
- d) Ovipositor

**Answer:** b) Antennae

34. Insects respire through:

- a) Lungs
- b) Gills
- c) Spiracles
- d) Skin

**Answer:** c) Spiracles

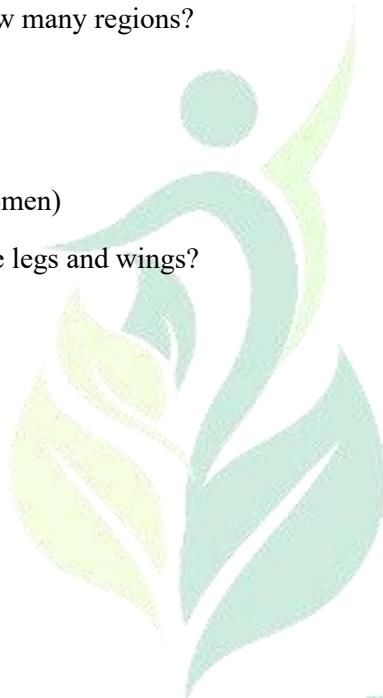
35. The larva of a housefly is called:

- a) Caterpillar
- b) Grub
- c) Maggot
- d) Nymph

**Answer:** c) Maggot

36. The order Diptera includes:

- a) Beetles
- b) Butterflies
- c) True flies



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d) Grasshoppers

**Answer:** c) True flies

37. The honeybee belongs to which order?

a) Diptera

b) Hymenoptera

c) Coleoptera

d) Lepidoptera

**Answer:** b) Hymenoptera

38. Red pumpkin beetle belongs to the order:

a) Coleoptera

b) Lepidoptera

c) Hemiptera

d) Orthoptera

**Answer:** a) Coleoptera

39. Which pest causes "dead heart" in sugarcane?

a) Shoot borer

b) Termite

c) White grub

d) Scale insect

**Answer:** a) Shoot borer

40. Pink bollworm is a major pest of:

a) Rice

b) Wheat

c) Cotton

d) Sugarcane

**Answer:** c) Cotton

41. Which insect is the vector of citrus greening disease?

a) Whitefly

b) Psylla

c) Aphid

d) Thrips

**Answer:** b) Psylla

42. The silk produced by Bombyx mori is called:

a) Tussar silk

b) Eri silk

c) Mulberry silk

d) Muga silk

**Answer:** c) Mulberry silk

43. Which insect is used in the biological control of mealybugs?

a) Ladybird beetle

b) Trichogramma

c) Chrysoperla

d) Cryptolaemus montrouzieri

**Answer:** d) Cryptolaemus montrouzieri



44. Which insect pest is called the "white ant"?

- a) White grub
- b) Termite
- c) Aphid
- d) Mealybug

**Answer:** b) Termite

45. The lac insect belongs to the genus:

- a) Apis
- b) Bombyx
- c) Kerria
- d) Galleria

**Answer:** c) Kerria

46. Which is a non-chemical method of pest control?

- a) Insecticide
- b) Biological control
- c) Fumigation
- d) Pesticide spray

**Answer:** b) Biological control

47. Neem oil is primarily used as a:

- a) Contact insecticide
- b) Systemic insecticide
- c) Botanical pesticide
- d) Fumigant

**Answer:** c) Botanical pesticide

48. Which fungus is used in the biological control of insect pests?

- a) Aspergillus
- b) Beauveria bassiana
- c) Rhizobium
- d) Penicillium

**Answer:** b) Beauveria bassiana

49. Which insect exhibits polymorphism?

- a) Housefly
- b) Honeybee
- c) Grasshopper
- d) Mosquito

**Answer:** b) Honeybee

50. Aggregation pheromones are used by insects for:

- a) Mating
- b) Feeding
- c) Group formation
- d) Nest building

**Answer:** c) Group formation

51. The pest resurgence is caused by:

- a) Natural enemies
- b) Excessive pesticide use



- c) Weather changes
  - d) Crop rotation
- Answer:** b) Excessive pesticide use

**52.** Which insect is nocturnal in behavior?

- a) Grasshopper
- b) Rice weevil
- c) *Helicoverpa armigera*
- d) Aphid

**Answer:** c) *Helicoverpa armigera*

**53.** Termites communicate primarily through:

- a) Visual signals
- b) Sound
- c) Chemical pheromones
- d) Touch

**Answer:** c) Chemical pheromones

**54.** Which insect is the most efficient pollinator of sunflower?

- a) Ant
- b) Honeybee
- c) Butterfly
- d) Beetle

**Answer:** b) Honeybee

**55.** Which insect is involved in silk production?

- a) *Apis mellifera*
- b) *Bombyx mori*
- c) *Kerria lacca*
- d) *Melipona*

**Answer:** b) *Bombyx mori*

**56.** Chrysoperla is effective in controlling:

- a) Aphids
- b) Stem borers
- c) Whiteflies
- d) Caterpillars

**Answer:** a) Aphids

**57.** Which honeybee species is native to India?

- a) *Apis mellifera*
- b) *Apis cerana indica*
- c) *Apis dorsata*
- d) *Apis florea*

**Answer:** b) *Apis cerana indica*

**58.** The biological control agent for sugarcane early shoot borer is:

- a) *Trichogramma chilonis*
- b) *Chrysoperla carnea*
- c) *Cryptolaemus montrouzieri*
- d) *Telenomus remus*

**Answer:** a) *Trichogramma chilonis*





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