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SUBJECT CODE NO: - SS-6632

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Zoology) (Sem-II)

Examination May / June - 2023

Entomology II ZOO-208

[Time: 03:00 Hours]

[Max. Marks: 80]

Please check whether you have got right question paper.

N. B

- 1) Question Paper is divided in Part-A and Part-B
- 2) Part-A is compulsory.
- 3) Attempt any five question from the Part-B.
- 4) Draw well labelled diagram wherever necessary.

Part-A

Q1 Attempt the following multiple-choice questions.

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- 1) Which of the following are the main features of an insect.
 - a) Pair of antennae
 - b) Three pairs of legs
 - c) Pairs of wings
 - d) All of above
- 2) Which of the following statement is true about the holometabolus insects?
 - a) These insects undergo complete metamorphosis.
 - b) These insects undergo incomplete metamorphosis.
 - c) Both a and b
 - d) None of above
- 3) The phenomenon of using predator to control pest is _____
 - a) Artificial control
 - b) Biological control
 - c) Genetic engineering
 - d) Chemical control.
- 4) Pesticides disturb the ecosystem by eliminating the _____
 - a) Organism that protect the environment
 - b) Organism which from the food chain
 - c) Micro-organism of crop
 - d) None of above
- 5) How do you get bacillus thuringiensis to spray on plant?
 - a) In powder form
 - b) In the form of log
 - c) In the form of dried spores.
 - d) In the form of wet spores.
- 6) Biological control of pests is _____
 - a) Highly Expensive
 - b) Self perpetuating
 - c) Toxic
 - d) Polluting

7) Which one of the following functions of mouthparts of insects makes them effective vector of plant-viruses?

a) Biting and chewing b) Piercing and sucking c) Rasping d) Punching

8) The damaging stage of pink ball worm is _____

a) Nymph b) Calter piller c) Adult d) None of above

9) The first pesticide used by Man is _____

a) Rotenone b) Turicide c) Pyrethrin d) Pheromone

10) Which is the method of cellular defence in insect and plants?

a) Recombinant DNA technology b) RNA interference
c) Immense response d) Mutation.

Part-B (Attempt any Five)

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| Q2 | Give the detail classification of subclass Apterygota. | 12 |
| Q3 | Describe in detail on vector borne diseases. | 12 |
| Q4 | How the pests are control by biological method? What are the limitations? | 12 |
| Q5 | Describe in details the recent trends in pest control. | 12 |
| Q6 | Give an account on molecular tools in medical entomology. | 12 |
| Q7 | What is the role of symbiont for pesticide detoxification | 12 |
| Q8 | Write notes on (Any two) | 12 |
| | a) Integrated pest management | |
| | b) Pink ball worm | |
| | c) Recombinant DNA technology | |