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SUBJECT CODE NO:- 6589
FACULTY OF SCIENCE & TECHNOLOGY
M.Sc. (Sem-II)
Examinations March/April-2022 (To be held in June/July-2022)
Zoology
Entomology II ZOO-208

[Time: 3:45 Hours]

[Max. Marks:80]

N.B Please check whether you have got the right question paper.

- N.B
- i. Part A is compulsory.
 - ii. Attempt any five questions from Part B.
 - iii. Draw neat labeled diagram whenever necessary.

Part A

Q.1 Attempt following multiple-choice questions.

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1. The collophore and furcular are found in insect order_____.
 a) Thysanura b) Collembola
 c) Odonata d) Coleoptera
2. The forewings known as tegmina are found in insect order_____.
 a) Hemiptera b) Orthoptera
 c) Coleoptera d) Diptera
3. To which insect order do honey bees and ants belongs?
 a) Diptera b) Hymenoptera
 c) Lepidoptera d) Isoptera
4. Which structure is found in odonatan and not in lepidoptera?
 a) Pterostigma b) Halteres
 c) Sting d) Collophore
5. The sterile male is a type of _____ control.
 a) Chemical b) Mechanical
 c) Priological d) Autocidal
6. Name the pest which has an international status.
 a) Termite b) Locust
 c) Cabbage Butterfly d) Whitefly
7. Which of the following insecticides are NOT used against stored grain pests.
 a) Organic insecticides b) Fumigants
 c) Inorganic insecticides d) All of the above

8. Which of the following insecticides of the plant origin?
 - a) Nicotine
 - b) Pyrethrum
 - c) Rotene
 - d) All of the above

9. A desirable change in the genotype of an organism is obtained by ____
 - a) m-RNA formation
 - b) DNA replication
 - c) Protein Synthesis
 - d) r-DNA technology

10. Transgenic plants carry desirable traits like ____
 - a) Harmful genes
 - b) Lactose intolerance
 - c) Herbicidal resistance
 - d) Complementary gene

Part B

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| Q.2 | Write an essay on order Thysanura. | 12 |
| Q.3 | Give the diagnostic features of order coleopteran and add a note on its classification. | 12 |
| Q.4 | What is pest? Give classification of pest and add a note on causes of pest outbreak. | 12 |
| Q.5 | What is chemical control of pests? Give a detailed account on mode of entry and mode of action of different insecticides. | 12 |
| Q.6 | Write an essay on recombinant DNA technology and its application in control of insects pests. | 12 |
| Q.7 | Give detailed account on events during herbivory. | 12 |
| Q.8 | Write note on any five of the following <ol style="list-style-type: none"> a) Springtails b) IPM c) Male sterile techniques | 12 |