

Total No. of Questions: 6

Total No. of Printed Pages: 2



Enrollment No.....
Faculty of Science
End Sem Examination Dec-2023
FS3EG03 Entomology
Programme: B.Sc. (Hons.) Branch/Specialisation: Forensic
Science

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Who is considered to be a father of forensic entomology? **1**
(a) Song Ci (b) Dr. A. Bergeret
(c) J.P. Megnin (d) Hall
- ii. The entomologist must be able to identify the blow fly because each _____ develops at a different rate. **1**
(a) Species (b) Genus (c) Order (d) Family
- iii. The legs of insects are joined with....? **1**
(a) Thorax (b) Abdomen
(c) Head (d) Abdomen and thorax
- iv. During which stage house flies begin to appear and deposit eggs **1**
(a) Fresh stage (b) Blotted Stage
(c) Decay Stage (d) Post-Decay Stage
- v. The total number of abdominal legs in the larval stage of the green bottle blow fly are- **1**
(a) 2 (b) 4 (c) 6 (d) 8
- vi. Select the name of part of excretory system found in insects are- **1**
(a) Foregut (b) Midgut (c) Hindgut (d) All of these
- vii. During this stage, beetles begin to colonize the body and consume the dry, less nutrient-rich components. **1**
(a) Fresh Stage (b) Bloated Stage
(c) Decay Stage (d) Post Decay Stage
- viii. Approximately, in how many days the blow flies grow from an egg to an adult. **1**
(a) 8-10 (b) 10-12 (c) 12-16 (d) 16-20

[2]

- ix. Hand picking method generally apply for which type of insects? **1**
(a) Big and lazy insects (b) Water body insects
(c) Flying Insects (d) All of these
- x. The process of killing pupa without changing the cocoon shell layer is called- **1**
(a) Denier (b) Dupion (c) Hatching (d) Stifling
- Q.2 i. Define insects and their role. **2**
ii. Write the name of any three insects belongs to Beetles family. **3**
iii. Write a brief history of forensic entomology. **5**
OR iv. Explain the entomology and their importance in death cases. **5**
- Q.3 i. In winter season the developmental ratio of insects become slow or fast and why? Explain. **2**
ii. Define the various classification of insects with examples in all order. **8**
OR iii. Draw a label diagram of metamorphosis of blow flies and explain their importance. **8**
- Q.4 i. Write the name of various part of exoskeleton of insects. **3**
ii. Make a labelled diagram of digestive system of any insects. **7**
OR iii. Explain the life cycle of beetles with labelled diagram. **7**
- Q.5 i. Explain the mechanism of death of any living body (animal/human). **4**
ii. Define thanatology and role of insect for determining the post mortem interval. **6**
OR iii. Explain the various spams mechanism that occur after death. **6**
- Q.6 Attempt any two: **5**
i. Write short note on collection techniques of various insects. **5**
ii. Write short note on preservation techniques of various insects. **5**
iii. Explain role of insect in death cases specially death due to poison **5**

P.T.O.