II BTech II sem FE-2021-22

Name of the Student & ID Number

Set code - A

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CHEFT

UHS-BAGALKOT

Oct.29, 2022

AET-201 INTRODUCTORY ENTOMOLGY AND STORAGE PEST MANAGEMENT 2 (1+1)

Part – A Question paper: Answer within 30 min. Total Marks : 20

Please return this question paper **after 30 min** of start of examination to the invigilator and collect while leaving the exam hall at the end. **This part-A question paper has 2 pages**

All answers should be written only in the answer booklet provided to you.

Q.I. Select the most correct answer A/B/C/D for the following questions.

20 x 0.5 mark = 10 Marks

D 1. Example of apterygotan insect order is
a) Diplura b) Protura c) Collembola d) All of the above

D 2. Body wall of the insect is called as
a) Exosceleton b) Integument c) Cuticle d) Both a & b

A 3. In coleoptera the fore wings are modified into
a) Elytra b) Hemelytra c) Membranous d) Non of the above

D 4. An elastic protein responsible for the flexibility of wing sclerites is
a) Cuticulin b) Athropodin c) Sclerotin d) Resilin

A 5. The wings of moths or butterflies are covered with
a) Scales b) Hair c) Spines d) All of the bove

C 6. A type of head orientation in which mouth parts are pointed forward
a) Hypognathus b) Ophistognathus c) Prognathus d) All of the above

C 7. Groundnut seed beetle belongs to family
a) Buprestidae b) Belestomatidae c) Bruchidae d) Anobidae

B 8. Moths and butterflies belong to the order
a) Coleoptera b) Lepidoptera c) Diptera d) Hemiptera

B 9. Shield shape pronotum is found in
a) Grass hopper b) Cockroch c) Crickets d) All of the above

D 10. Siphoning type of mouth parts are found in
a) Moths b) Butterfly c) Housefly d) Both a &b

A 11. Lesser grain borer, *Rhyzopertha dominica* belongs to the family
a) Bostrychidae b) Pyralidae c) Dermestidae d) All of the above

D 12. Beneficial insects are
a) Honey bees b) Silkworms c) Lac insects d) All of the above

A 13. Aggregation of similar units in the insect compound eye is called as
a) Ommatidia b) Sense organ c) Crystalline cone d) None of the above

A 14. Type of wing modification in thrips is
a) Fringed b) Elytron c) Membranous d) hemelytron

B 15. Indian Grain Storage Management and Research Institute is located
a) Napgur b) Hapur c) Mirpur d) Bangalore

A 16. Scientific name of Rice moth is
a) *Corcyra cephalonica*
b) *Plodia interpunctella*
c) *Ephestia cautella*
d) All of the above

A 17. Stored grain insect pest which feeds only at larval stage is
a) Khapra beetle b) Rice weevil c) Red flour beetle d) None of the above

D 18. Examples of fumigants are
a) Alluminium phosphide b) EDB c) Methyl bromide d) All of the above

A 19. Abbreviation of EDCT is
a) Ethylene dibromide and carbon tetrachloride
b) Ethylene dibromide and carbon trichloride
c) Ethylene dibromide and carbon tetratrichloride
d) None of the above

D 20. Conventional food grain storage structures are
a) Bomboo structures
b) Mud and earthen structures
c) Wooden structures
d) All of the above

Q.II. State TRUE /FLASE for the following statements. 10 x 0.5 mark = 05 Marks

F T T T F F T T T F T
21. Saltatorial legs are called as running legs
22. Scape is a part of insect antennae
23. Pulse beetle lays eggs outside the stored seeds
24. Example for grylloblattodea order is rock crawlers
25. Generally stored grain insect pests belongs to orders coleoptera and Lepidoptera
26. Pilose type of antennae found in male mosquito
27. Sponging type of mouth parts found housefly
28. For proper storage of food grains they must be cleaned and sundried to safe moisture level.
29. The pest which carry infestation from field to storage is rice weevil
30. Probe trap is used for detection of insect infestation in storage

Q.III. Match column A with column B and write numerals. 10 x 0.5 mark = 05 Marks

D J F H I B C G E A

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31	Cerambycidae	A	*Sitotroga cerealella*
32	Insect Taxonomist	B	Grasshopper hind leg
33	Strepsiptera	C	Hemiptera
34	Mole crickets	D	Longicorn beetles
35	Thrips	E	Pulse beetle
36	Saltatorial leg	F	Twisted winged parasites
37	Piercing and Sucking mouth parts	G	Honey bee
38	Hemuli	H	Orthoptera
39	Bruchidae	I	Fringed wings
40	Angoumoish grain moth	J	A.D. Imms

END OF PART – A QUESTION PAPER Oct, 29 2022

Student's Signature..... Invigilator's signature.....