What are reasons for the fact that insects are a dominant group of animals? 4. Answer the following questions: (any three) What are the important characteristics of social organisation in insects? Write about the social behaviour of any one (ii) What do you mean by plant-insect interactions? Describe plant defence mechanisms and adaptation of insects to plant defences. 2819 21 184 2+8=10 (iii) Describe the following type of mouth parts of insects with labelled diagrams: (a) Biting and chewing type al=6x3(b) Piercing and sucking type 01 ₹6+5 Distinguish between hemimetabolous (iv) Describe the digestive system of insects. (v) What are the different types of sense organs in insects? Describe Mechanoreceptors and Chemoreceptors. (vi) Write the distinctive characters of the orders Coleoptera, Diptera, Lepidoptera and Hymenoptera with examples. 921/200008 B01FS 0159 4 8

Total number of printed pages-4 - CHOUDHURY COLLEGE 3 (Sem-6/CBCS) ZOO HE 1
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UTS Elective)

ZOO-HE-6016 Houseft 2202 ZOOLOGY (Honours Elective) Paper : ZOO-HE-6016 (Biology of Insecta) Full Marks: 60 111 0 Time: Three hours The figures in the margin indicate full marks for the questions. Choose the correct option: 1×7=7 Termites have _____ type of antennae. (c) Diptera mrofilinoM (a) (d) Hemiptera mrofili7 (d) elasw a (c) no Plumosed roads (d) Serrate damylomand mort (ii) 'Costa' is a part of meah (b) (a) Antenna conceptes annean (d) (b) Malpighian bodhuoM (d) (c) Wing venation (d) Thorax ear Contdo B01FS 0159

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(iii) Siphoning type of mouthparts are found (a) Butterfly (b) Housefly SOS (c) Mosquitoes (d) Honey bee The thorax of insects has _ segments. (a) two sent to upolois) Full Marks: (991th (d) (c) four of three hourself The figures in the margin inch Halteres are found in-(a) Coleoptera correct option of the control of the correct option of the correct options o Termites have aratqohro of (d) tennae. (c) Diptera molilinoM (x) (d) Hemiptera modili (d) absorbs nitrogenous waste from haemolymph. (b) (a) Haemocytes q s si 'stsoo' (ii) (b) Oenocytes sansanA (b) (c) Malpighian body M (d) Rectumoits nov gniW B01FS 0159

G.L. CHOUDHURY COLLEGE (vii) Complete metamorphosis is found in-(a) Grasshopper Scientine (b) Silverfish 4. Answer the following discountry of the same of the (d) Butterfly contains and management and the standard of the (i) What are the primary parts of the insect (ii) Distinguish between simple eyes and compound eyes of insects. o (iii) What is plastron? (iv) Mention the function of Haemolymph parts of insects with Letoseni di grams; 3. Answer the following questions: (any three) 21=8×2(b) Pietcing and sucking type Distinguish between hemimetabolous and holometabolous metamorphosis. (ii) Write about the abdominal structures organs in insects? D.stoseni fo chano-(iii) Describe the raptorial type of legs of (ut) Write the distinctive chargesin of the (iv) What is corpora allata? What hormone does it secrete? Mention its functions. 1+1+3=5