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NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA FACULTY OF SCIENCE Department of Pure and Applied Sciences 2021_2 EXAMINATION

COURSE CODE: BIO407 COURSE TITLE: BASIC ENTOMOLOGY CREDIT: 2 UNITS TIME ALLOWED: 2 HOURS INSTRUCTION: ANSWER NUMBER ONE (1) AND ANY OTHER THREE (3) QUESTIONS

Q1 a. List any five families in the order Diptera.b. Itemize the distinguishing characteristics of Bristle tails.c. Outline any six characteristics of the largest order in the		5marks 6marks
animal kingdom.		6marks
d. Give a comprehensive description	n of the four divisions of foregut of insects	8marks
Q2 a. List the sites of hormones responsible for controlling moulting and metamorphosisb. Outline the six families of the order Diptera and give an example of each family.c. State six characteristics of polypod larva.		s. 3marks 6marks 6marks
Q3 a. What are the economic importance of the families Vespodea and Apoidea?b. Enumerate the three distinct tagmata in Insects.c. Give an insight into the evolution of insects.		3marks 3marks 9marks
Q4 a. Name the three groups of insects based on metamorphosis.		3marks
b. Enumerate four characteristics of spring tails.c. With appropriate example, outline eight different types of insects' legs that are		4marks
modified for different modes of movement		8marks
Q5 a. Provide any seven external characteristics of cockroach. b. Write short notes on the following groups of termites: i. workers 4marks ii. soldiers. 4marks		7marks