DEPARTMENT OF ZOOLOGY

MAR IVANIOS COLLEGE

(AUTONOMOUS)

Re-assesed and Re-accredited (Third Cycle) with the Highest Grade, 'A' Grade by NAAC
CPE (College with Potential for Excellence) Status conferred by UGC

Date: 11/03/2020

CERTIFICATE

This is to certify that **Dr. Nisha Thomas**, Department of Zoology, St. John's College, Anchal has established a linkage with **Dr. Anupriya Samuel**, Department of Zoology, Mar Ivanios College, Thiruvanathapuram towards collaborative research leading to joint publications in national and international journals on 11 March 2020.

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DEVELOPMENTAL STAGES OF FEMALE REPRODUCTIVE SYSTEM IN BANANA STEM WEEVIL (Odoiporus longicollis) (Coleoptera: Curculionidae)

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Abstract

Odoiporus longicollis Olivier (Coleoptera: Curculionidae), also known as the banana pseudo stem weevil (BSW), is one of the main pests in Banana (*Musa paradisiacal* L.) plantations in South East Asia and all the banana-growing belts of India. The present study is on certain aspects of female reproductive system of *Odoiporus longicollis* in its different developmental stages. For this the morphometric and ontogenic studies were done in instars larvae, pre-pupa, one -day old pupa, five-days old pupa, pre-emergent adult and adults of varying ages such as newly- emerged, four- day old, ten -day old, fifteen -day old, seventeen-day old and a mature adult female. The development of female reproductive structures was not visible in any of the larval instars. But the onset of its development was indicated in one- day old pupa by the appearance of genital chamber (0.05mm) and rudimentary ovariole. The development was completed in twenty-day old adult who elicits maximum sex responses. Earlier studies on biological control of banana stem weevil are inadequate. Therefore, the present study has been made in order to fill up the gap as well as to help for controlling measures of the pest systematically by knowing the developmental stages in the