PHOTOPERIOD AND DIAPAUSE OF SILKWORM BOMBYX MORI L.

T. Sam Suji, Pappa.G, Dr. Ramani Bai

1. Research Scholar, Scott Christian College, Nagercoil.

2. Assistant Professor N.M.C.C. Marthandam.

3.Associate Professor, Muslim Arts College, Thiruvithancode.

Abstract:-

Photo periodism refers to the Functional or behavioural responses of an organism to changes of duration in seasonal cycles of light and darkness in an entire year.

Diapause is a seasonal developmental arrest in insects. Embryonic diapausing insects, such as, the silkworm, B. Mori enterdiapause as egg (Tsuramaki et al., 1999). When the silkworms larvae reared on artificial diet containing Soyabean powder, were the embryonicperiod was maintained the larvae kept at various lengthof brightness per day.

A high percentage of diapause was observed among the eggs of the next generation when the larvae reared under 8 L and 16 L. Under total darkness and total brightness most of the eggs of non-diapause.