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UNIVERSITI MALAYSIA TERENGGANU

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**FAKULTI AGROTEKNOLOGI DAN SAINS MAKANAN
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**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK ILMIAH I DAN II**

Adalah ini diakui dan disahkan bahawa laporan ilmiah bertajuk: The Study of Prevalence, Mean Intensity and Morphology of *Digenea sp* In *Mystus Nemurus*. Oleh Nurul Farhana Binti Ramli, No.Matrik Uk13918 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada **Jabatan Sains Perikanan dan Akuakultur** sebagai memenuhi sebahagian daripada keperluan memperoleh **Ijazah Sarjana Muda Sains Agroteknologi (Akuakultur)** Fakulti Agroteknologi dan Sains Makanan, Universiti Malaysia Terengganu.

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THE STUDY OF PREVALENCE, MEAN INTENSITY AND MORPHOLOGY OF
Digenea sp IN *Mystus nemurus*

By
Nurul Farhana binti Ramli

Research Report submitted in partial fulfillment of the requirements for degree of
Bachelor of Agrotechnology Science (Aquaculture)

Department of Fisheries Science and Aquaculture
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DECLARATION

I hereby declare that the work in this thesis is my own except for quotation and summaries which have been duly acknowledged.

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ABSTRACT

The study was done on *Mytus nemurus* fish in The Tasik Kenyir Reservior. 37 fishes were examined in order to obtain digenean parasite infecting the *Mytus nemurus* fish and to determine prevalence, mean intensity of digeneans found. The morphological description of the digeneans was also done. The digeneans that were in stomach and intestine have the same morphological structures. So, most probably they are from *Euhaplorchis sp.* The prevalence and mean intensity of the digenean parasites were high in the intestine of the fish compared to the stomach of the fish. The composition of the digeneans also showed that the digeneans have site specificity at the anterior part of the intestine; site A. Factors like environment, physiology of the digeneans and morphology of the fish probably influence the accumulation of the parasite in *Mytus nemurus*. Histology part also was done to see the digenean group in the small intestine of the fishes. It was observed that the infection of the digeneans to the *Mytus nemurus* was not related to the total length of the fish.

ABSTRAK

Kajian ini telah dijalankan kepada spesies ikan liar, *Mystus nemurus* yang berada di Tasik Kenyir. Sejumlah 37 ikan telah diperiksa demi menentukan prevalen dan min keamatan species digeneans yang dijumpai di dalam kajian ini. Huraian mengenai morfologi digenea juga telah dilakukan. Digenean yang dijumpai di dalam perut dan usus ikan tersebut mempunyai struktur morfologi yang sama. Jadi kemungkinan besar, digenea yang dijumpai adalah dari spesies *Euhaplorchis sp.* Prevalen dan min keamatan digenea tinggi di dalam usus berbanding di dalam perut ikan. Spesies digenea yang berkumpul di dalam usus ikan menunjukkan bahawa digenea tersebut lebih memilih di bahagian hadapan usus; bahagian A. Faktor persekitaran, bentuk fizikal digenea dan morfologi ikan telah mempengaruhi jangkitan digenea terhadap ikan ini. Kajian histologi bagi usus kecil ikan telah dijalankan untuk melihat digenea yang menjangkiti ikan ini. Juga telah diperhatikan bahawa, jangkitan digenea kepada spesies ini tidak bergantung kepada panjang ikan.