DIVERSITY OF MACROFUNGI IN UITM NEGERI SEMBILAN FOREST

UMMI MASYITAH BINTI ABDUL RAZAK

Final Year Project Report Submitted in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science (Hons.) Biology In the Faculty of Applied Science Universiti Teknologi MARA This Final Year project Report entitled "Diversity of Macrofungi in UiTM Negeri Sembilan Forest" was submitted by Ummi Masyitah binti Abdul Razak in partial fulfilment of the requirements for the Degree Bachelor of Science (Hons.) Biology, in the Faculty of Applied Science, and was approved by

Sarini bt. Ahmad Wakid Supervisor Faculty of Applied Sciences UiTM Negeri Sembilan Kampus Kuala Pilah Pekan Parit Tinggi 72000, Kuala Pilah Negeri Sembilan

Ilyanie bt. Hj Yaacob Project Coordinator Faculty of Applied Sciences UiTM Negeri Sembilan Kampus Kuala Pilah Pekan Parit Tinggi 72000, Kuala Pilah Negeri Sembilan Dr. Nor'aishah bt. Abu Shah Head of Biology School Faculty of Applied Sciences UiTM Negeri Sembilan Kampus Kuala Pilah Pekan Parit Tinggi 72000, Kuala Pilah Negeri Sembilan

Date:		

TABLE OF CONTENTS

			PAGE	
ACKNOWLEDGEMENTS TABLE OF CONTENTS LIST OF TABLES LIST OF FIGURES LIST OF ABBREVIATIONS ABSTRACT ABSTRAK			iii iv vi viii viii ix x	
CHA	APTER 1:	INTRODUCTION		
1.1	Backgro	ound Study	1	
1.2	Problem	n Statement	4	
1.3	Signific	4		
1.4	Objectiv	ve of the Study	5	
CHA	APTER 2:	LITERATURE REVIEW		
2.1	Malaysi	an Rainforest	6	
2.2	Previou	8		
CHA	APTER 3:	METHODOLOGY		
3.1	Materia	ls	11	
	3.1.1	Raw materials	11	
	3.1.2	Apparatus	11	
3.2	Method	S	12	
	3.2.1	Field sampling	12	
		Specimens collection	13	
	3.2.3	Macroscopic study	14	
		Make spore print	14	
		Preserve specimens	15	
		Macrofungi identification	16	
		Macrofungi storage	17	
3.3	Statistic	18		

	3.3.1	Shannon- Weiner diversity index	18
	3.3.2	Pielou's index	18
СНА	PTER 4	: RESULTS AND DISCUSSION	
4.1	Check	list of Macrofungi diversity	20
4.2	Classi	fication and Utilization of Different	
	Macro	ofungi Species	
	4.2.1	Family Amanitaceae	24
	4.2.2	Family Schizophyllaceae	26
	4.2.3	Family Sclerodermataceae	27
	4.2.4	Family Hymenochaetaceae	28
	4.2.5	Family Ganodermataceae	29
	4.2.6	Family Polyporaceae	32
	4.2.7	Family Steccherinaceae	36
	4.2.8	Family Russulaceae	37
	4.2.9	Family Sacrosomataceae	38
		Unknown species	39
4.3		sity Index	41
CHA	APTER 5	S: CONCLUSIONS AND RECOMMENDATION	43
CITI	ED REF	ERENCES	44
APP	ENDIC	ES	52
CUR	RICUL	UM VITAE	54

ABSTRACT

DIVERSITY OF MACROFUNGI IN UITM NEGERI SEMBILAN FOREST

Macrofungi is a type of fungi that can be seen with unaided eye and it plays an important role in the ecosystem. However, the study and information about the macrofungi diversity is not well updated and documented in Malaysia. A study on the diversity of macrofungi was carried out at UiTM Negeri Sembilan Forest. Macrofungi samples were collected from three different areas within UiTM Negeri Sembilan forest. The macro morphology of the macrofungi has been recorded *in situ* and samples were collected for identification purposes. A total of 23 species of macrofungi belonging to six orders under phylum Basidiomycota and Ascomycota has been identified during the samplings. The order Polyporales had the highest number of species (13), followed by unidentified species (4), Agaricales (2), Hymenochaetales (1), Boletales (1), Russulales (1) and Pezizales (1). The Shannon- Wiener index and Pielou- index for the macrofungi diversity in the UiTM Negeri Sembilan Forest were 1.757 and 0.560 respectively. In conclusion, there is need of continuous research to be done in order to get better knowledge about the diversity of macrofungi particularly in Malaysia.