MORPHOLOGICAL CHARACTERIZATION OF MUSHROOMS ASSOCIATED WITH FOREST TREE OF NATIONAL BOTANICAL GARDEN, DHAKA

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MORPHOLOGICAL CHARACTERIZATION OF MUSHROOMS ASSOCIATED WITH FOREST TREE OF NATIONAL BOTANICAL GARDEN, DHAKA

BY

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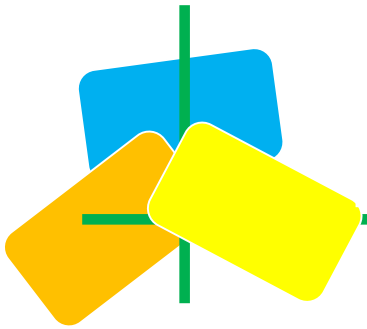

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This is to certify that the thesis entitled**,** "**MORPHOLOGICAL CHARACTERIZATION OF MUSHROOMS ASSOCIATED WITH FOREST TREE OF NATIONAL BOTANICAL GARDEN, DHAKA**

submitted to the Department of Plant Pathology, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE (MS) in PLANT PATHOLOGY** embodies the result of a piece of bona fide research work carried out by RUBINA HOQUE bearing Registration No**. 13-05754** under my supervision and guidance. No part of the thesis has been submitted for any other degree or diploma.

I further certify that such help or source of information, as has been availed of during the course of this investigation has been duly acknowledged.

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ABSTRACT

This investigation was conducted in National Botanical Garden, Dhaka located at 24°00 N (Latitude), 90°00′ E (Longitude) to document the morphology, diversity and distribution of macro fungi during the rainy seasons of July to October, 2015. A total of 23 mushroom samples were collected and identified to 17 species under 10 genera and 10 families. The predominant genera were *Ganoderma* sp., *Lepiota* sp., *Daedeleopsis* sp., *Russula* sp., *Psythyrella* sp., *Lycoperdon* sp., *Crepidotus* sp., *Psilocybe* sp, *Flammulina* sp. and *Cantharellus* sp. The survey revealed that five species are edible, six species have medicinal value, three species are inedible and three are unknown. The maximum density of occurrence was exhibited by *Psilocybe cubensis* (45%) followed by *Lepiota* sp. (40%), *Ganoderma pfeifferi* (35%) and *Ganoderma lucidum* (25%). The present investigation emphasized the existence of a distinct biodiversity in mushroom population at National Botanical Garden, Dhaka.

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LIST OF ABBREVIATED TERMS

ABBREVIATION	FULL WORD
et al.	And others
cm	Centimeter
^{o}C	Degree centigrade
^{o}C μm	Micrometer
etc.	Etcetera
ed.	Edition
J.	Journal
%	Percent
PP./P.	Page Number
Var.	Variety