UNIVERSITY OF COLOMBO – SRI LANKA FACULTY OF ARTS SPECIAL DEGREE EXAMINATION IN ARTS (GEOGRAPHY) – PART III FIRST SEMESTER END EXAMINATION – 2018 GYG 4182 – Applied Biogeography

Two (2) hours

Answer three (03) questions selecting at least one from each part.

Part I	
01.(i). Briefly explain the "multidisciplinary approach" in Biogeography.	(04 Marks)
(ii). Examine briefly about the application of modern geographical techniques bio- geographical research.	in
(iii). Discuss the advantages of studying the concepts related to interactions bet humans and the environment to find out solutions to the environmental iss appropriate examples.	
	(10 Marks)
02.(i). Explain the components related to ecosystem services using diagrams.	(04 Marks)
(ii). Explain the relationship between ecosystem services and Payment for Ecosystem Services (PES).	ystem
	(06 Marks)
(iii). Examine the importance of applying different conservation measures to pr balance of ecosystem services in up-country of Sri Lanka in a biogeograph point of view using appropriate examples.	
point of view using appropriate examples.	(10 Marks)
03.(i). What are the criteria applied for determining biodiversity hotspots?	(04 Marks)
(ii). Explain the suitability of the concept of biodiversity hotspots in studying th distribution pattern of world biodiversity.	e

(iii). "Concept of the biodiversity hotspots is an attempt of shortcut for a more complicated process". Discuss your views on this statement using appropriate examples.

(10 Marks)

(06 Marks)

Part II

04.(i). Why preparation of different kinds of maps in different stages in a biogeographical research is important?

(04 Marks)

- (ii). Examine in brief the importance of conducting a proper literature survey to perform a successful study on spatial differences in distribution of vegetation in a particular area. (06 Marks)
- (iii). Propose a methodology to carried out a study to assess the diversity and spatial variations of vascular plants above 10cm of girth class at breast height (GBH) in a forest reserve.

(10 Marks)

05.(i). Briefly explain concepts of Land Use and Land Cover.

(04 Marks)

(ii). Examine impact of land use and land cover change on bio-spatial arrangement of selected coastal wetland ecosystem.

(06 Marks)

(10 Marks)

(iii).Discuss the necessities of integrating economic, social and natural system information into a framework in analyzing the cause and effect relationships between man and environment.
