UNIVERSITY OF THE PUNJAB

M.A./M.Sc. Part – II Annual Exam – 2019

Roll No. ....

Subject: Mountain Conservation and Watershed Management

PAPER: I (Database Management Information System & Applications of Remote Sensing and Geographical information System)

Time: 3 Hrs. Marks: 75

NOTE: *Attempt only FIVE questions. Attempt TWO questions from Section-I and THREE questions from Section-II. All questions carry equal marks.*

	Section-I: Database Management Information System (DBMS)	
Q.1	(i) What are the type of Geo data-base? (ii) Describe its sub types?	5+10=15
Q.2	(i) Describe feature data set and feature class. (ii) Differentiate between feature data set and feature class.	8+7=15
Q.3	(i) What is normalization in RDBMS? (ii) Explain all the stages of Normalization?	5+10=15
Q.4	(i) Why a data-base is called as relational database model. (ii) What do you understand by relation in relational data model. (iii) What are the entities and attributes referring to?	5+5+5=10

P.T.O.

	Section-II: Remote Sensing and Geographical Information System (RS/GIS)	
Q.5	How we Relate GIS with other Discipline? Define area of GIS Application.	5+10=15
Q.6	(a) Define the following: 　　(i) Geographic coordinate systems 　　(ii) Projected coordinate system 　　(iii) Global coordinate system 　　(iv) Spatial Analysis (b) Point line, polygon with help of GIS?	10+5=15
Q.7	(a) Write down the five name of GIS software. (b) Define: 　　(i) Map program　　(ii) Survey Sheet 　　(iii) Distortion　　(iv) Datum (c) How many name GIS software.	5+5+5=15
Q.8	What is classification define supervised and unsupervised classification?	5+10=15
Q.9	Introduction to GPS and its segments?	5+10=15

UNIVERSITY OF THE PUNJAB
M.A./M.Sc. Part – II Annual Exam – 2019

Subject: Mountain Conservation and Watershed Management
Paper: II (Sustainable Development)

Roll No. ....

Time: 3 Hrs.   Marks: 75

NOTE: *Attempt only FIVE questions. Attempt THREE questions from Section-A and TWO questions from Section-B. All questions carry equal marks.*

Section – A (Sustainable Development)

Q.1.	Discuss population growth as one of the major barrier to sustainable development.	15
Q.2.	Define different categories of renewable resources. How do renewable energy resources ensure sustainable development?	15
Q.3.	Describe the relationship of three pillars of sustainable development with the role of women.	15
Q.4.	Economics, ecology, politics and culture are the four circles of sustainability. Discuss the relationship of these domains.	15
Q.5.	Political ignorance is one of the major barriers to sustainability. Discuss.	15

P.T.O.

Section – B (Ecotourism)

Q.6	How Ecotourism should be viewed differently while comparing with other types of Tourism? What are the principles of Ecotourism?	15
Q.7	The biodiversity, physiographic, seasonal, and cultural diversity in Pakistan offers great tourism opportunities. Discuss in detail the tourism potential keeping in view these domains.	15
Q.8	Explain how the following three could be planned to achieve the best environment resort (Greening tourism)? 1. Conservation of Flora and Fauna 3. Energy Conservation 2. Sewage/Waste Water Management	15
Q.9	Describe the Eco-destination characteristics. How tourism related risks can be managed? Give examples.	15

UNIVERSITY OF THE PUNJAB

M.A./M.Sc. Part – II   Annual Exam – 2019

Roll No. ....

Subject: Mountain Conservation and Watershed Management
Paper: III (Environmental Impact Assessment and Research Methods and Techniques)

Time: 3 Hrs.   Marks: 100

NOTE: *Attempt only FIVE questions in all by selecting at least TWO questions from each section and ONE question from any one Section. All questions carry equal marks.*

Section I: Environmental Impact Assessment (EIA)

Q.1 What is meant by EIA? Give its introduction with reference to its background. **(20)**

Q.2 What are the principals of EIA? Discuss in detail. **(20)**

Q.3 What is meant by Physical environment? Discuss in detail. **(20)**

Q.4 What are the Rapid Environmental Assessment (REA) checklists of the Asian Development Bank (ADB)? **(20)**

What is the difference between EIA and IEE? How will you define the requirements required for these terms?

Section II: Research Methods and Techniques (RMT)

Q.5 What do you know about research? Discuss various types of research in detail. **(20)**

Q.6 What is meant by research? Define research process in detail with a diagram. **(20)**

Q.7 What is meant by data collection in research? How will you elaborate methods of data collection? **(20)**

Q.8 What is meant by report writing? If you are preparing a report for submission to fulfill your degree requirements, Which steps will you take for this purpose? **(20)**