UNIVERSITY OF THE PUNJAB

M.A./M.Sc. Part – II   Annual Examination – 2020

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) Why a database is called as relational database model? (ii) What do you understand by relation database model? (iii) What are the entities and attributes reforming to?	5+5+5=15
Q.2	(i) Explain the following: a) 3rd normalized form b) Tuples and Entities c) Candidate key d) Objects in RDBMS e) Relations between tables (ii) Why the process of normalization is required in RDBMS? Explain.	10+5 = 15
Q.3	What are main components of Geo-Database? Describe with elements of geo-Database. Also state its fundamentals.	5+5+5=15
Q.4	(i) What are the Benefits of Geo database? (ii) Write all steps of creating Geo database in ARC Map.	10+5=15
	Section-II: Remote Sensing and Geographical Information System (RS/GIS)	
Q.5	Define GI partnering with National and global spatial data infrastructure. Explain institutional issues and characteristics.	10+5=15
Q.6	Explain the research agendas of GISc in the 1980s. Write 10 recommendations of workshop by GISc research.	10+5=15
Q.7	(a) Explain the Breadth of GI Science. (b) Write a short note on Global Positioning System.	10+5=15
Q.8	(a) Introduction to Remote Sensing. (b) Application of Remote sensing. (c) Advantages and Disadvantages of RS.	5+5+5=15
Q.9	Types of Remote sensing	5+5+5=15

UNIVERSITY OF THE PUNJAB

M.A./M.Sc. Part – II Annual Examination – 2020

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

Roll No. ....

Time: 3 Hrs.   Marks: 75

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

Section I: Sustainable Development

Q.1   What is the current status of sustainability science? Discuss in detail.   (15)

Q.2   Discuss the policy, regulatory and governance reforms needed in Pakistan regarding sustainable Development.   (15)

Q.3   What is meant by SD? Define the concept of sustainable development.   (15)

Q.4   What is the difference between sustainable development and environmental management?   (15)

Q.5   How will you explore the implications of social, economic and political dimensions of sustainability?   (15)

Section II: Ecotourism

Q.6   What are the advantages of tourism destination in Pakistan tourism industry?   (15)

Q.7   How many types of tourism are there? Discuss the characteristics of these types.   (15)

Q.8   How tourism related risks can be managed in Pakistan. Give examples   (15)

Q.9   What is meant by Ecosystem based management and ecosystem health.   (15)

Q.10   What do you know about Ecotourism? How will you examine the state of the global ecosystem and environmental trends?   (15)

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

Section I: Environmental Impact Assessment (EIA)

Q.1 Describe major challenges for practice of EIA in developing countries.   **(20)**

Q.2 What is meant by physical environment? Discuss in detail.   **(20)**

Q.3 Describe the following terms in an EIA process;   .

a) Screening   b) Scoping   c) Terms of Reference   d) Base Map   **(20)**

Q.4 Write down the purposes and limitations of EIA.   **(20)**

Section II: Research Methods and Techniques (RMT)

Q.5 Define the term research, discuss various types of research in detail using examples.   **(20)**

Q.6 What is research design, also explain different research designs.   **(20)**

Q.7 What are different problems faced by researchers in Pakistan.   **(20)**

Q.8 Describe following types of research data

a) Primary Data   b) Secondary Data   **(20)**