

# UNIVERSITY OF THE PUNJAB



**Part-II      A/2018**  
**Examination:- M.A./M.Sc.**

Roll No. ....

**Subject: Mountain Conservation and Watershed Management**  
**PAPER: I (Database Management Information System & Applications of Remote Sensing and Geographical information System)**

**TIME ALLOWED: 3 hrs.**  
**MAX. MARKS: 75**

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

<b>SECTION-I : Database Management Information System (DBMS)</b>		
<b>Q. 1</b>	Define Computer File Processing System. Write its disadvantages in Database Management information system?	<b>3+12=15</b>
<b>Q. 2</b>	i. Define DBMS. Discuss its Components? ii. Define Class, Subclass, Super Class, Aggregation And Constraints?	<b>9+6=15</b>
<b>Q. 3</b>	Write a note on the Following: i. Specialization ii. Normalization iii. Join operations	<b>3x5=15</b>
<b>Q. 4</b>	What is relational Model? Describe its advantages and disadvantages?	<b>4+11=15</b>
<b>SECTION-II : Remote Sensing and Geographical Information System (RS/GIS)</b>		
<b>Q. 5</b>	What is Stereoscopy? Which techniques are used in the Stereoscopy?	<b>3+12=15</b>
<b>Q. 6</b>	Differentiate the following: i. Holography and Photography ii. Linear and Nonlinear Stretching iii. Analog and Digital Image	<b>3x5=15</b>
<b>Q. 7</b>	What is Supervised Classification? Write its advantages and disadvantages?	<b>3+12=15</b>
<b>Q. 8</b>	Define Watershed. Describe in detail the watershed applications?	<b>3+12=15</b>
<b>Q. 9</b>	Define image Enhancement. How many types of techniques are applicable in image processing discuss briefly?	<b>04+11=15</b>

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

**TIME ALLOWED: 3hrs**  
**MAX. MARKS: 75**

**NOTE: Attempt Five Questions. Attempt at least THREE question from Section-I and TWO question from Section-II. Write to the point with the clear concept.**

## Section-I: Sustainable Development

- Q.1 a) Define the following terms: (6)  
Green Water; Blue Water; Grey/Black Water
- b) Explain with reasons what are the threat to our mountainous area related to sustainability in the context of climate change, migration and hunger? (9)
- Q.2 a) Why Human System is unsustainable? Explain briefly. (7)
- b) How we can make it sustainable by applying the sustainable development principle? (8)
- Q.3 a) Keep in mind Creating a sustainable system for agriculture: explain the Hunger, Malnutrition, food supplies and the environment. (7)
- b) What are the barriers to create a sustainable agriculture system to feed the world growing population? (8)
- Q.4 What do the Ecological, Social / Ethical and Political principles of sustainability explain each one briefly? (15)
- Q.5 Using your critical thinking skills analyses the following statement: Developing and implementing sustainable ethics (15)
- Q.6 Explain human cultural evolution; our changing relationship with the nature. (15)

## Section-II: Ecotourism

- Q.7 Define the concept of Ecotourism. Discuss its Principles, Benefits and Importance in the context of sustainable Tourism growth? (15)
- Q.8 a) What is the meaning of Tourism Destination? What are the advantages of the tourism destination in the scenario of the Pakistan tourism industry? (7)
- b) Discuss the Principles of Sustainability in Tourism sector growth and development? (8)
- Q.9 Write a note on the Following: (15)
- i. Mass Tourism
  - ii. Community Based Tourism
  - iii. Sustainable Tourism
  - iv. Nature Tourism
  - v. Rural Tourism
- Q.10 Define term Cultural and Landscape Tourism? Discuss the Characterization of the Cultural and Landscape Tourism with reference to sustainability and Growth in Pakistan. (15)



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

**TIME ALLOWED: 3 hrs.**  
**MAX. MARKS: 100**

**Instructions: This question paper has two sections "Environmental Impact Assessment" and "Research methods and Techniques". Every section has four questions. Attempte any FIVE questions, at least TWO questions should be attempted from each section. All questions carry equal marks. All the parts of a question must be answered together.**

## Section I: Environmental Impact Assessment

- 1) Describe Environmental Impact Assessment process in Pakistan with a diagram. (15+5)
- 2) a. Discuss the following terms in an EIA process (10+10)  
(i) Study area (ii) Base map (iii) Terms of reference (iv) Study team
- b. What types of projects have to undergo environmental impact assessment? (20)
- 3) Describe the tools used for impact analysis. (10+10)
- 4) Write a note on the following:
  - a. Benefits of Environmental Impact Assessment
  - b. Need of Environmental Impact Assessment in developing countries

## Section II: Research Methods and Techniques

- 5) What is Research? Discuss various types of research in detail. (2+18)
- 6) Define research process in detail with a diagram. (15+5)
- 7) a. Discuss the basic requirement of research report preparation, including report writing format and cover page. (10+10)
- b. What is data collection? Discuss the various tools of data collection. (10+10)
- 8) Write a note on the following:
  - a. Oral Presentation
  - b. Advantages and disadvantages of Interview and Questionnaire Methods