

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Agricultural Sciences)

WARNING

1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
2. **SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN "AIOU PLAGIARISM POLICY".**

Course: Natural Resource Management (1796)
Level: MSc (Hons) Rural Development

Semester: Autumn, 2013
Total Marks: 100
Pass Marks: 50

ASSIGNMENT No. 1

Note: All questions carry equal marks.

- Q. 1 Describe the matter and energy resources, its types and concepts in detail. (20)
- Q. 2 What are the principle structural and chemical compositions of earth? (20)
- Q. 3 a) What are Earth's principal types of resources? How can they be depleted or degraded?
b) What are the major types of pollution and how can pollution be controlled?
c) What are the relationships among human population size, resource use, technology, environmental degradation, and pollution? (20)
- Q. 4 Write a detailed account on Food Resources. (20)
- Q. 5 a) What are the harmful environmental impacts from mining, processing, and using minerals and other crustal resources? (10)
b) How can we make supplies of key minerals last longer by reducing the production of solid waste? (10)

ASSIGNMENT No. 2

Total Marks: 100

Pass Marks: 50

- Q. 1 a) How can we reduce erosion and nutrient depletion in topsoil? (10)
b) How is soil degraded by excessive salt buildup (salinization) and water logging? (10)

- Q. 2 a) How much usable fresh water is available for human use, and how much of this supply are we using? **(06)**
- b) What are most serious water resource problems in Pakistan? **(08)**
- c) How can water resources be managed to increase the supply and reduce unnecessary waste? **(06)**
- Q. 3 What are the advantages and disadvantages of using hydrogen gas to produce electricity to heat buildings and water and to propel vehicles? **(20)**
- Q. 4 Explain in detail:
- a) Forests **(05)**
- b) Rangelands **(05)**
- c) Parks **(05)**
- d) Wilderness **(05)**
- Q. 5 What are the advantages and disadvantages of using coal as an energy resource? Briefly discuss these important issues in the context of Pakistan. **(20)**

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