RDL 740

MAJOR TEST

Dated: 2/12/2006

Max. Marks: 50 Time: 2 Hours

Technology for Utilization of Wastelands and Weeds

O. 1	(a) What do you un	derstand by biomass ? Discuss how bion	mass can provide
	renewable raw materials for Industry.		(4)
	(b) Write short notes on any two		(3 × 2)
	(i)	Terpenoids and their plant sources	
	(ii)	Cellulose and Hemicellulose	
	(iii)	Plant acids	
Q. 2. Q. 3.	major sources of vegetable fibres in India. (b) How fibre plants can be utilized for employment generation in . (a) Distinguish between traditional and non traditional oilseeds.		(5) in the rural areas? (5) (4)
	(b) How non-tradition	onal oilseeds can be utilized for the produc	etion of Biofuel in
Q. 4.	How Gums differ from Resins? Discuss various Biomass sources of Gums		
	Resins.		(5)
OR			

Discuss the importance of wastelands in the context of Rural Development.

(5)

Q. 5. Describe the Auroville wasteland reclamation case study (for red latirite soil or Saline-alkaline black cotton soil) discussed in the class. What lessons should be learnt from the success and failure achieved in then case study.

(5)

Q. 6. (a) Based on the article circulated, describe the common features of Wasteland and Fly ash. Mention the amount of fly ash generated/ used in India and also list potential utilization of fly ash

(2.5)

(b) How can fly ash be utilized for reclamation of degraded soils, Mention 2-3 examples. What precautions need to be taken for land application of fly ash.

(2.5)

- Q. 7. Write short notes on any **Two**:
 - (a) Weeds and their potential in Wasteland reclamation.
 - (b) Xerophyte adaptations in plant
 - (c) Role of bio-technology in Wasteland reclamation.

(5)