Total No. of Questions : 4]

P887

SEAT No. :

[Total No. of Pages : 2]

[5315] - 484 T.Y.B.Sc. (Semester - IV) ENVIRONMENTAL SCIENCE (Theory) Environmental Biotechnology - II (2008 & 2013 Pattern) (Paper - VI)

Time: 2 Hours | [Max. Marks: 40]

Instructions to the candidates:

- 1) All questions are compulsory and carry equal marks.
- 2) Neat and labelled diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- *Q1*) Attempt the following in 1 2 lines each.

[10]

- a) Define Rhizofiltration.
- b) Enlist the advantages of bioleaching.
- c) Write full form of FBR and ABR.
- d) What is biomass gasification?
- e) What is electrolysis process in hydrogen production.
- f) Enlist any two demerits of biomethanation of MSN.
- g) Define in Situ bioremediation.
- h) Define fermentation.
- i) Enlist any two aquatic biomass used for biogas.
- j) Define hog fuel.

P.T.O.

[10]

Q2)	Write a short note on ANY TWO of the following:		[10]
	a)	Biotechnology for air pollution control.	
	b)	Rotating biological contractor.	
	c)	In - Situ Leaching	
Q3)	Answer ANY TWO questions from the following:		[10]
	a)	What are the advantages of using immobilized enzymes.	

- b) Explain the factors affecting methane formation.
- c) What are the advantages of anaerobic waste water treatment.
- **Q4)** Attempt ANY ONE of the following:
 - a) What is bioremediation? In what ways it is good tool for environmental clian up.
 - b) Explain the techniques used for removal of heavy metals from waste water.

