Total No. of Questions : 8]

P1696

[5130]-404

M.Sc.

SEAT No :

[Total No. of Pages : 2]

ENVIRONMENTAL SCIENCE

EVSC-404: Renewable and Non-renewable Energy (2013 Pattern) (Semester-IV) (Credit System)

Time: 3 Hours] [Max. Marks:50 Instructions to the candidates: Solve any Five Questions from the following. Neat and labeled diagrams must be drawn wherever necessary. 2) Figures to the right indicate full marks. 3) **Q1)** Answer the following: [10]Describe solar spectrum with diagram. a) What are fossil fuels? Add a note on formation of fossil fuels. b) Discuss various environmental problems associated with fossil fuels.[10] **Q2)** a) What is energy plantation? Explain its role in energy generation. b) Explain how solidwaste is useful for energy generation. *Q3*) a) [10] Explain physicochemical characteristics and energy content of different b) fossil fuels. Describe methods used for radioactive waste disposal. [10] **Q4**) a) Explain principle and working of solar collectors and concontrators. b)

P.T.O.

Q5)	a)	What is photovottaics? How do photovaltaics work?	[10]
	b)	Explain energy generation from nuclear fission process.	
Q6)	a)	Explain principle and working of hydroelectric power generation.	[10]
	b)	Discuss environmental impact of wind energy generation.	
Q7)	a)	Describe with suitable diagram working of wind mill with m components.	nain [10]
	b)	Describe environmental impact of hydro energy generation.	
Q8)	Write	e short notes on:	[10]
	a)	Harnessing of geothermal energy.	
	b)	Problems and prospects of Tidal and wave energy.	
		••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••<l< th=""><th></th></l<>	