## (a) Give the classification of ecosystem.

## ENVIRONMENTAL & SAFETY ENGG.

Paper: ES 101

Full Marks: 100

Pass Marks: 30 molecular

-neons to short Time: Three hours

## The figures in the margin indicate full marks for the questions.

Answer any five questions out of seven.

- 1. (a) What is a resource? Give the classification of resources with example. 1+4=5
  - (b) What are the advantages and disadvantages of renewable resources?
  - (c) What do you mean by population explosion?
    What are the causes of population explosion?
    1+4=5
- (d) What are the effects of depletion of resources?

	(e)	what is ecosystem? What are t components of a ecosystem? 1+2	
2.	(a)	Give the classification of ecosystem.	5
Ð	(b)	Define the term 'food web'.	2
	(c)	Give the composition of atmosphere.	3
	(d)	Describe briefly the different modes of he transfer.	eat 6
	(e)	What are the causes and effects of gree house effect?	
3.	(a)	Define pollutant.	2
	(b)	Distinguish between primary and seconda pollutants.	ry 4
	(c)	Discuss the various types of pollutants.	7
	(d)	What is criteria air pollutant?	3
	(e)	What are the effects of $H_2S$ (hydrogosulphide) and nitrogen oxides.	en 4
4.	(a)	Describe briefly the causes and effects acid rain.	of 8

(b)	Write short notes on: 3+3=6		
	(i) Troposphere		
	(ii) Exosphere.		
(c)	Japan (1997) and Montreal Protocol (1985). 3+3=6		
(a)	Write about the causes and effects of water pollution.		
(b)	What is pesticides? Classify it. What are the effects of pesticides on plants and animals? 1+2+6=9		
(c)	What do you mean by COD (chemical oxygen demand)?		

- 6. (a) Discuss the effects of noise pollution. 6
  - (b) Give the classification of noise pollution.
  - (c) Discuss the causes and effects of solid wastes from Urban and Industrial areas. Provide some remedial measures to control pollution from such wastes.

    5+4=9

3

5.

7. (a) What do you mean by food chain? Discuss its general characteristics.

neora (h) What is pesticides" Classity it What are

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- (b) Write short notes on: (any three) 3×5=15.
- Ozone layer depletion
- (ii) Acid rain
  - (iii) Thermal pollution
- (iv) Deforestation.