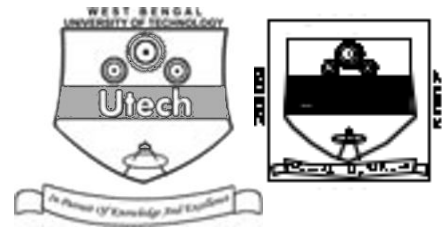


# ENVIRONMENT AND ECOLOGY ( SEMESTER - 4 )

CS/BCA/SEM-4/HU (BCA)-401/09



1. ....  
Signature of Invigilator

2. ....  
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the Candidate

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CS/BCA/SEM-4/HU (BCA)-401/09  
ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009  
**ENVIRONMENT AND ECOLOGY ( SEMESTER - 4 )**

Time : 3 Hours ]

[ Full Marks : 70

**INSTRUCTIONS TO THE CANDIDATES :**

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.  
b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification.**
9. Rough work, if necessary is to be done in this booklet only and cross it through.

**No additional sheets are to be used and no loose paper will be provided**

**FOR OFFICE USE / EVALUATION ONLY**

Marks Obtained

Group – A

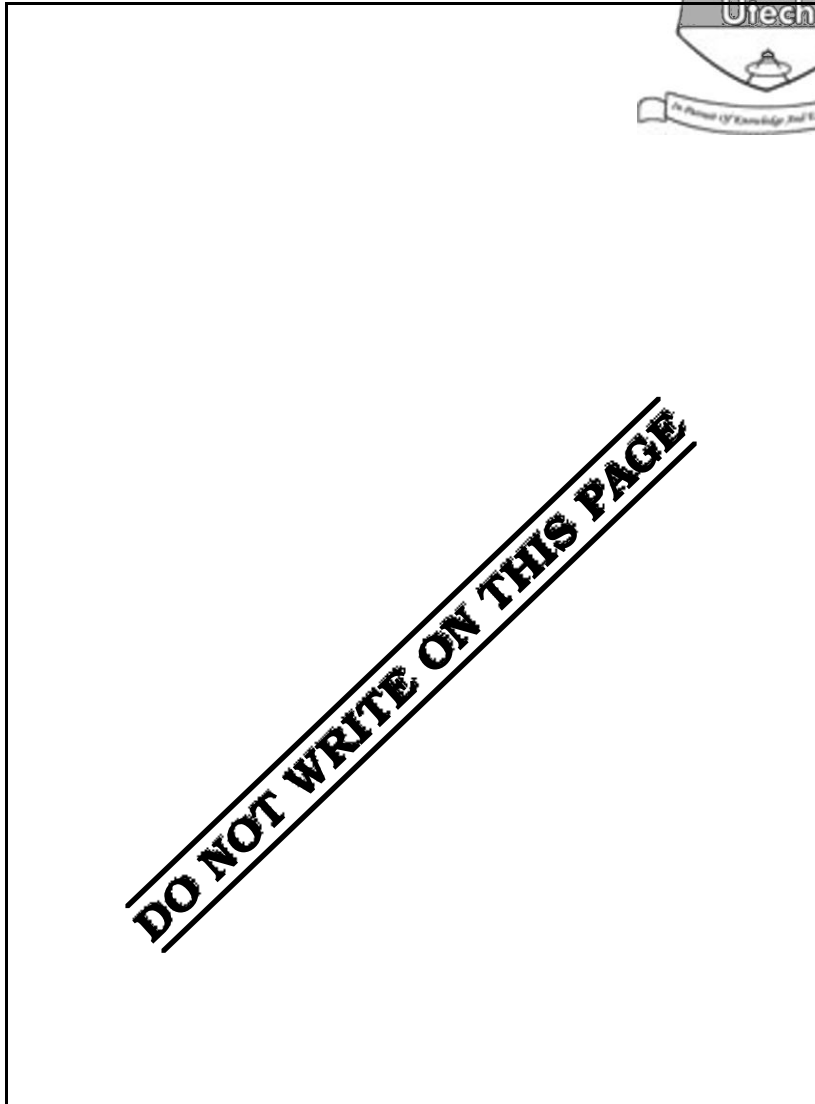
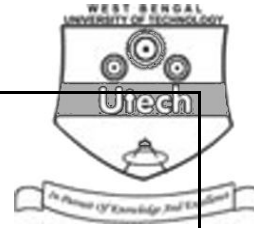
Group – B

Group – C

Question Number																				Total Marks	Examiner's Signature	
Marks Obtained																						

.....  
**Head-Examiner / Co-Ordinator / Scrutineer**

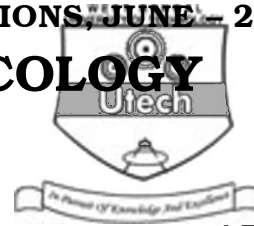
**4670 ( 16/06 )**





**ENVIRONMENT AND ECOLOGY**

**SEMESTER - 4**



Time : 3 Hours ]

[ Full Marks : 70

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for the following : 10 × 1 = 10

i) Which one is a greenhouse gas ?

a) Oxygen

b) Nitrogen

c) Carbon dioxide

d) Sulphur dioxide.

ii) Which one is a primary pollutant ?

a) Smoke

b) Carbon monoxide

c) PAN

d) Carbon dioxide.

iii) Hydrosphere consists of

a) air layers

b) rocks

c) soil

d) various water bodies and oceans.

iv) BOD means

a) Biological Oxygen Demand

b) Biochemical Oxygen Demand

c) Biggest Oxygen Demand

d) Bio Oxygen Dissolved.



v) According to ecological food chain, man is a

- a) Decomposer
- b) Producer
- c) Consumer
- d) None of these.



vi) What is the normal hearing frequency range ?

- a) 60dB b) 20Hz – 20,000 Hz
- c) 80 dB d) 60 Hz – 60,000 Hz.

vii) The commercial name of CFC is

- a) Chlorofluorocarbon
- b) Freon
- c) Chlorofluorocarbide
- d) Aerosol.

viii) BOD is

- a) amount of  $O_2$  required to respire
- b) amount of  $O_2$  to decompose
- c) amount of  $O_2$  to inhale
- d) amount of  $O_2$  to measure COD.

ix) Which of the following contains maximum quantity of fresh water ?

- a) Glacier & ice caps
- b) River
- c) Lakes
- d) Ground water.

x) The main acidic component of acid rain is

- a) Sulphuric acid
- b) Hydrochloric acid
- c) Carbonic acid
- d) Hydrofluoric acid.



5

**GROUP – B**

( **Short Answer Type Questions** )

Answer any *three* of the following.



3 × 5 = 15

2. Define environment. State the importance of it in relation with developmental plans of the country. 2 + 3
3. How do you give an account on the 'Ecological Balance' ?
4. Define Acid rain. How has it been responsible for destruction of Monuments ?
5. State the various methods of disposal of solid waste.
6. Define food web. Distinguish between food chain and food web. 2 + 3

**GROUP – C**

( **Long Answer Type Questions** )

Answer any *three* of the following.

3 × 15 = 45

7. What are the different air pollutants ? Write the adverse effects of the air pollutants. Describe in short any two of the air pollution controlling equipment. 2 + 5 + ( 2 ∞ 4 )
8. Define ecology and ecosystem. Justify the statement : "Through the ecosystem, the inorganic nutrients are recycled, but flow of energy is unidirectional." 5 + 10
9. Define the concept of global warming. How can it be controlled ? Mention the different aspects of thermal pollution of water and write any one of the controlling measures of thermal pollution. 2 + 4 + 6 + 3
10. Highlight the different sources of noise. State the different adverse effects of noise. Write in brief noise control at source or noise control at path. 3 + 6 + 6



11. Write short notes on any *two* of the following :

- a) Greenhouse effect
- b) Adverse effects of heavy metals in natural and waste water
- c) BOD
- d) Ecological Pyramid.



$2 \times 7\frac{1}{2}$

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END