B.Tech 2nd Semester Exam., 2016

ENVIRONMENTAL SCIENCE

Time: 3 hours

Full Marks: 70

Instructions:

- in (i) All questions carry equal marks.
- (ii) There are NINE questions in this paper.
- (iii) Attempt FIVE questions in all.
- (iv) Question No. 1 is compulsory.
- 1. Choose the correct answer (any seven) :
 - (a) Croundwater is usually free from
 - (i) isuspended impurities
 - (ii) dissolved impurities
 - (iii) Both (i) and (ii)
 - (iv) None of the above
 - (b) Acid precipitation results from human modification of
 - (i) the nitrogen and phosphorous cycle
 - (ii) the nitrogen and sulfur cycle
 - (iii) the carbon and sulfur cycle
 - (iv) the carbon and nitrogen cycle

(c) Carnivorous plants are found on

(i) nitrogen deficient soil

(ii) O2 deficient soil

(iii) CO2 deficient soil

(iv) All of the above

- (d) Increase in concentration of toxins from one trophic level to another trophic level is called
 - (i) biomagnification
 - (ii) bioaccumulation
 - (iii) ecological toxication
 - (iv) All of the above
- (e) Modern turbidity meters, working on the principle of 'scattering of light', are known as
 - (i) Jackson's turbidity meter
 - (ii) turbidity rod or tape
 - (iii) nephelometric turbidity meter
 - (iv) None of the above

(f) Fluoride pollution most commonly affects

- (i) teeth
- (ii) kidney
- (iii) brain
- (iv) heart

AK16/603

un Over V

- (g) Chlorofluorocarbons are not recommended to be used in refrigerators because they
 - (i) increase temperature
 - (ii) deplete ozone layer
 - (iii) affect environment
 - (iv) affects human body
- (h) The main reason for extinction of species is
 - (i) hunting

11.140

MO RESIDEN

- (ii) destruction of habitat
- (iii) pollution
- (w) None of the above
- (i) Which pollutant does leave any residue?
 - (i) Organic matter
 - (ii) lonic radiation
 - (iii) Insect hormone output
 - (iv) DDT
- (j) World Environment Day is celebrated on

With a seinemation the

- (i) 5th June
- (ii) 11th July
- (iii) 5th September
- (iv) None of the above

- What are the main components of our environment? Explain each of them.
- What is greenhouse effect? Why is it so called? What are its consequences?
- Mention the sources of particulate that pollute air. What are the effects of particulate matters on human health? Explain in brief.
- 5. What do you mean by natural resources?
 Enumerate various natural resources. Explain their importance.
- 6. Define biodiversity. What are the major components of biodiversity? Explain the values of biodiversity in brief
- 7. Define water pollution. Classify and explain about various constituents of water pollution.
- With a schematic diagram, explain various components of municipal wastewater treatment.
- What is noise? What are the sources of noise pollution? Explain source-path-receiver concept for noise pollution control.

* * *

illi in a t

timit tillo