

**BACHELOR OF PHARMACY EXAMINATION -2019  
(FIRST YEAR SECOND SEMESTER)**

**ENVIRONMENTAL SCIENCES AND CONTROL**

**Time: Three Hours**

**Full Marks: 100**

Answer **Question No. 1** and **four** from the rest according to instruction  
The figure in the right hand margin indicate marks

**Q.No. 1**

**A. Answer the followings questions:- (any eight)**

**1x8=8**

1. Which day is denoted as "World Ozone day"?
2. Mention the acceptable noise level (dB) in Education and Industrial sector.
3. What level of lead (Pb) is toxic?
4. Give two example of Organophosphate Pesticide.
5. Mention two infectious and two non-infectious hospital waste.
6. Define with one examples Biodegradable and Non-biodegradable waste.
7. Write down the common water impurities present in Kolkata.
8. Mention two common ozone depleting substances present in the atmosphere.
9. Mention the average noise range (dB) and maximum noise level (dB) in Kolkta.

**B. Write down the full form of the followings:- (any six)**

**1x6 =6**

(a) NIPTS (b) CFC (c) TTS (d) CPCB (e) VOC (f) HCFC (g) PSC (h) DDT

**C. Choose the correct answer of the followings:- (any six)**

**1x6=6**

1. The level at which sound becomes physically painful is 95 dB / 65 dB / 85 dB.
2. CFC / CO / CO<sub>2</sub> is a secondary air pollutant.
3. Mercury Orange is a Pesticide / Fungicide / Insecticide.
4. Which of the following is not a water borne disease Typhoid / Scabies / Cholera.
5. Acceptable noise level of living room is 30dB / 35 dB / 40 dB.
6. 2.5% / 3.5% /4.5% primary pollutant comes from solid waste.
7. 140 / 160 / 180 dB noise produce mechanical hearing damage.

**P.T.O.**

**Q.No.2:**

- (i) What is soil pollution?
- (ii) Mention the different causes of soil pollution.
- (iii) Write down the 9 devastating effects of soil pollution.
- (iv) Write in your own words about the preventive measures of soil pollution.
- (v) Write down the characteristics of untreated wastes of Chemical industries.
- (vi) Mention the percentage of waste generated in India in each year.

1+3+5+5+4+2=20

OR

- (i) What is the permissible Lead (Pb) level in drinking water?
- (ii) Write down the blood lead level of moderate, severe and medical emergency condition in children.
- (iii) Write in your own words about the possible mechanism of lead induce oxidative stress and cell death.
- (iv) Discuss on the effect of lead on hem biosynthesis.
- (v) How lead effects on Children's health?

1+3+5+6+5=20

**Q.No.3:**

- (i) What do you mean by Noise pollution?
- (ii) What are the causes of noise pollution hazards?
- (iii) How does noise pollution affects us?
- (iv) What are the disadvantages of Noise pollution?
- (v) How can we solve the noise pollution?

2+4+6+4+4=20

OR

- (i) What is Ozone hole?
- (ii) How Ozone layer is depleted?
- (iii) Write down the impact of Ozone depletion on human, plants and animals.
- (iv) What is the sources of greenhouse gases?
- (v) How green house gases cause global warming?

2+4+7+3+4=20

**Q.No.4:**

- (i) Define air pollution.
- (ii) What are the major air pollutants?
- (iii) What are the main causes of air pollution?
- (iv) What are the main sources of air pollution?
- (v) How does air pollution affect us?

2+2+3+4+6+3=20

P.T.O.

-3-

OR

- (i) What are pesticides?
- (ii) Mention the mechanism of action of Pesticides.
- (iii) Write down the classification of pesticides.
- (iv) What are Bio pesticide? Give two example.
- (v) Write in your own words about the ecological and environmental effects of pesticide.
- (vi) How will you control the pesticide pollution?

2+3+5+2+5+3=20

**Q.No.5:**

- (i) What is water pollution?
- (ii) What are the causes of water pollution?
- (iii) Write down the most common types of water contamination.
- (iv) What are the effects of water pollution?
- (v) Write down the 10 common diseases caused by water pollution.
- (vi) Mention 10 common drugs those pollute water.

1+3+3+5+4+4=20

OR

**Write a short notes of the followings\_ (any two)**

- (i) Narmada Bachao Andolan (NBA)
- (ii) Ecological pyramid
- (iii) Nitrification and Denitrification
- (iv) Itai-Itai
- (v) Namami Gange

5x4=20

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