

BACHELOR OF PHARMACY EXAMINATION -2022
(FIRST YEAR SECOND SEMESTER)

ENVIRONMENTAL SCIENCES

Time: Two Hours

Full Marks: 50

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. Write down the full form of the followings:- (any five)

1x5 =5

(a)FGD (b) TTS (c) CPCB (d) PAH (e) PCB (f) ABS

B. Choose the correct answer of the followings:- (any five)

1x5=5

1. In 1978/1974/1976 Mario Molina & Sherwood Rowland recognized the threats of the O₃ layer depletion.
2. 56%/50%/58% Waste is generated from the Manufacturing sector.
3. Day time permissible limit in the industrial area is 75 dB / 65 dB / 85 dB.
4. 16%/12%/10% E waste is generated from the household materials.
5. Murcury Oranfe is a Pesticide / Fungicide / Insecticide.
6. 20,000 Hz / 10, 000 Hz / 22, 000 Hz sound is called Ultrasonic / Infrasonic.
7. 36%/42%/47% health effects developed from herbicides infection.

Q.No.2:

- (i) What is tinnitus?
- (ii) Classify threshold shift.
- (v) What will happen if sound pollution is not controlled?
- (vi) How can we stop noise pollution?

1+3+3+3=10

OR

- (i) What is productivity?
- (ii) Write down the 2nd and 3rd level of organization of the ecosystem.
- (iii) What do you mean by energy flow/?
- (iv) Draw and write in short about the pyramid of number.
- (v) Write one example each of Biodegradable and Non-biodegradable waste.

1+3=2+3+1=10

P.T.O

Q.No.3:

- (i) Write down the different sources of waste.
- (ii) Define composting and vermicomposting.
- (iii) Classify the commonly generated hazardous waste.
- (iv) Mention scientific disposal methods of waste.

3+2+2+3=10

OR

- (i) What is surface water and ground water pollution?
- (ii) What are the parameters to be analysed for the waste water treatment?
- (ii) What are the 5 soil horizons? Explain with diagram.
- (iv) Mention one example each of herbicide fungicide insecticide.

2+3+3+2=10

Q.No.4:

- (i) How much amount of primary air pollutant is released from the industrial process?
- (ii) What is secondary air pollutant?
- (iii) Write down the five deleterious health effects of air pollutant.
- (iv) Mention two common drugs present in the water bodies.
- (v) What is PM_{2.5}?

1+2+4+2+1=10

OR

- (i) How did the sources of greenhouse gases affect the environment?
- (ii) What are the factors of greenhouse effect?
- (iii) How can we reduce the emission of harmful gases that deplete the Ozone layer?
- (iv) Which day is denoted as World Ozone Day?

3+3+3+1=10

Q.No.5:

- (i) Why E waste is a problem?
- (ii) Mention the hazardous constituents and valuable metals with their health effects those present in E waste.
- (iii) What type of E wastes are generated from hospitals?
- (iv) How much amount of E waste is generated annually?

3+4+2+1=10

OR

Write a short notes of the followings_ (any two)

- (i) Water pollution by drugs contamination (ii) Mechanism of acid rain (iii) Nitrification and Denitrification (iv) Mechanism of ozone depletion

5x2=10