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H-7221

M.Sc. (Semester-II) Examination, July 2022

ENVIRONMENTAL SCIENCE

(Environmental Pollution)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 28

Note : This question paper is divided into **four** Sections. Attempt questions of all four sections as per direction. Distribution of marks is given in each section.

SECTION-A

(Objective Type Questions)

1. Attempt **any ten** questions. Each question carries **1** mark. [10×1=10]

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(1)

[P.T.O.]

(A) Fill in the blanks :

- (i) BOD stands for ____.
- (ii) The Gaseous emission from the chimney is known as ____
- (iii) Acid rain is caused by ____.
- (iv) Excessive presence of nitrate and phosphate in water is known as ____.
- (v) Full form of COD is _____

(B) Multiple Choice Type :

- (vi) Ozone depletion is caused due to increase in the level of :
 - (a) Water vapour
 - (b) Oxygen
 - (c) Chlorofluorocarbon
 - (d) Carbon monoxide

- (vii) Nitrogen oxide affects human health by ____.
- (a) Causing irritation to the eyes and skin
 - (b) Aggravating asthma problem
 - (c) Decreasing blood's ability to transport oxygen
 - (d) None of the above
- (viii) Unburnt carbon particles causes :
- (a) Cardiac problem
 - (b) Respiratory problems
 - (c) Throat problems
 - (d) Skin infection
- (ix) Maximum soot is released from :
- (a) Petrol vehicles
 - (b) Diesel vehicles
 - (c) CNG vehicles
 - (d) Thermal Power plants

(x) The chemical responsible for blue baby syndrome that is caused by restricted supply of oxygen to the brain is :

- (a) Nitrates
- (b) Fluorides
- (c) Sulphates
- (d) Oxides

(xi) Which of the following metal is responsible for Minamata disease ?

- (a) Mercury
- (b) Chromium
- (c) Cadmium
- (d) Iron

(xii) Which of the following green house gases are entirely anthropogenic in origin?

- (a) Water Vapour
- (b) CFCs

(c) Carbon dioxide

(d) Methane

SECTION-B

(Very Short Answer Type Questions)

Note: Attempt **any five** questions. Each question carries **02** marks. (word limit **25-30** words) [5×2=10]

2. (i) Define Pollution.
- (ii) What is the difference between noise and sound?
- (iii) Name two Noise indices.
- (iv) What is lapse rate?
- (v) Define the term plume.
- (vi) What is bioaccumulation?
- (vii) What is heavy metal toxicity?

SECTION-C

(Short Answer Type Questions)

Note: Attempt **any five** questions. Each question carries **04** marks. (word limit **250** words) [5×4=20]

3. (i) Noise indices.
- (ii) Eutrophication
- (iii) Minamata disaster
- (iv) Photochemical Smog
- (v) Mixing Height
- (vi) Wind Roses
- (vii) Ganga Action Plan

SECTION-D

(Essay Type Questions)

Note: Attempt **any three** questions. Each question carries **10** marks. (word limit more than **500** words) [3×10=30]

4. (i) Write short notes on the following :
- (a) Pesticide pollution
- (b) Heavy metal toxicity in soil

- (ii) Define the term pollutant. Describe the effects of air pollutants on human and Environment.
- (iii) Comment on ozone layer depletion add a note on global warming.
- (iv) Define the term noise pollution. Briefly discuss the basic properties of sound waves.

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