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NEET ENVIRONMENTAL CHEMISTRY — PYQS

Max. Marks: 52 **Questions:** 13

Section A (MCQ) — 13 questions

Q.1 Given below are two statements:
Statement-I: The nutrient deficient water bodies lead to eutrophication.
Statement-II: Eutrophication leads to decrease in the level of oxygen in the water bodies.

In the light of the above statements, choose the correct answer from the options given below: [NEET (UG) 2023]

(1) Both Statement-I and Statement-II are false
(2) Statement-I is correct but Statement-II is false.
(3) Statement-I is incorrect but Statement-II is true.
(4) Both Statement-I and Statement-II are true.

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Q.2 The pollution due to oxides of sulphur gets enhanced due to the presence of:
(a) particulate matter (b) ozone
(c) hydrocarbons (d) hydrogen peroxide
Choose the most appropriate answer from the options given below: [NEET (UG) 2022]
(1) (a), (d) only (2) (a), (b), (d) only
(3) (b), (c), (d) only (4) (a), (c), (d) only

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Q.3 Match **List-I** with **List-II** :

List-I		List-II	
a.	Biochemical oxygen demand	i.	oxidising mixture
b.	Photochemical smog	ii.	polar stratospheric cloud
c.	Classical smog	iii.	organic matter in water
d.	Ozone layer depletion	iv.	reducing mixture

Choose the correct answer from the options given below : [NEET (UG) 2022 (Phase 2)]
(1) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
(2) (a)-(i), (b)-(iv), (c)-(ii), (d)-(iii)
(3) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
(4) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)

Solution

Q.4 Match **List-I** with **List-II** :

List-I	
a.	$2SO_2(g) + O_2(g) \longrightarrow 2SO_3(g)$
b.	$HOCl(g) \xrightarrow{h\nu} \dot{O}H + \dot{C}l$
c.	$CaCO_3 + H_2SO_4 \longrightarrow CaSO_4 + H_2O + CO_2$
d.	$NO_2(g) \xrightarrow{h\nu} NO(g) + O(g)$

List-II	
i.	Acid rain
ii.	Smog
iii.	Ozone depletion
iv.	Tropospheric pollution

Choose the correct answer from the options given below. [NEET (UG) 2021]
(1) (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i)
(2) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
(3) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
(4) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)

Solution

Q.5 Which of the following is not correct about carbon monoxide? [NEET (UG) 2020]
(1) It reduces oxygen carrying ability of blood.
(2) The carboxyhaemoglobin (haemoglobin bound to CO) is less stable than oxyhaemoglobin.
(3) It is produced due to incomplete combustion.
(4) It forms carboxyhaemoglobin.

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Q.6 Among the following, the one that is not a green house gas is : [NEET (UG) 2019]
(1) ozone (2) sulphur dioxide
(3) nitrous oxide (4) methane

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Q.7 Which oxide of nitrogen is not a common pollutant introduced into the atmosphere both due to natural and human activity? [NEET 2018]
(1) N_2O_5 (2) NO_2 (3) N_2O (4) NO

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Q.8 Which of the following is a sink for CO? [NEET 2017]

(1) Microorganisms present in the soil
(2) Oceans
(3) Plants
(4) Haemoglobin

Solution

Q.9 Which one of the following is not a common component of Photochemical smog? [AIPMT 2014]

(1) Ozone (2) Acrolein
(3) Peroxyacetyl nitrate (4) Chlorofluorocarbons

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Q.10 Which one of the following statements is not true? [NEET 2013 (Karnataka)]

(1) Clean water would have a BOD value of 5 ppm.
(2) Fluoride deficiency in drinking water is harmful. Soluble fluoride is often used to bring its concentration up to 1 ppm.
(3) When the pH of rain water is higher than 6.5, it is called acid rain.
(4) Dissolved Oxygen (DO) in cold water can reach a concentration up to 10 ppm.

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Q.11 Which one of the following statements regarding photochemical smog is not correct? [AIPMT 2012 (Prelims)]

(1) Carbon monoxide does not play any role in photochemical smog formation.
(2) Photochemical smog is an oxidising agent in character.
(3) Photochemical smog is formed through photochemical reaction involving solar energy.
(4) Photochemical smog does not cause irritation in eyes and throat.

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Q.12 Which one of the following statements is not true? [AIPMT 2011 (Prelims)]

(1) pH of drinking water should be between 5.5–9.5.
(2) Concentration of DO below 6 ppm is good for the growth of fish.
(3) Clean water would have a BOD value of less than 5 ppm.
(4) Oxides of sulphur, nitrogen and carbon are the most widespread air pollutants.

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Q.13 Green chemistry means such reactions which [AIPMT 2008]

(1) are related to the depletion of ozone layer
(2) study the reactions in plants
(3) produce colour during reactions
(4) reduce the use and production of hazardous chemicals

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	**3**	**2**	**4**	**4**	**2**	**2**	**1**	**1**	**4**	**3**	**4**
Ques.	12	13									
Ans.	**2**	**4**									

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