

NEET ENVIRONMENTAL ISSUES — AIR POLLUTION AND ITS CONTROL
— PYQS

Max. Marks: 88

Questions: 22

Section A (MCQ) — 22 questions

Q.1 Given below are two statements:

Statement-I: Electrostatic precipitator is most widely used in thermal power plant.**Statement-II:** Electrostatic precipitator in thermal power plant removes ionising radiations.

In the light of the above statements, choose the most appropriate answer from the options given below:

[NEET (UG) 2023]

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

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Q.2 The device which can remove particulate matter present in the exhaust from a thermal power plant is:

[NEET (UG) 2022]

- (1) STP
- (2) Incinerator
- (3) Electrostatic Precipitator
- (4) Catalytic Converter

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Q.3 The entire fleet of buses in Delhi were converted to CNG from diesel. In reference to this, which one of the following statements is false? [NEET (UG) 2022]

- (1) CNG burns more efficiently than diesel
- (2) The same diesel engine is used in CNG buses making the cost of conversion low
- (3) It is cheaper than diesel
- (4) It cannot be adulterated like diesel

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Q.4 Given below are two statements:

Statement-I: In a scrubber the exhaust from the thermal plant is passed through the electric wires to charge the dust particles.**Statement-II:** Particulate matter (PM 2.5) cannot be removed by scrubber but can be removed by an

electrostatic precipitator.

In the light of the above statements, choose the most appropriate answer from the options given below:

[NEET (UG) 2022]

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

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Q.5 Why CNG is considered better fuel than diesel?

- A. It can not be adulterated.
- B. It takes less time to fill the fuel tank
- C. It burns more efficiently.
- D. It is cheaper.
- E. It is less inflammable.

Choose the most appropriate answer from the options given below : [NEET (UG) 2022 (Phase 2)]

- (1) C, D and E only
- (2) A, B, C and E only
- (3) A, C and D only
- (4) A, B, D and E only

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Q.6 Which of the following is a secondary pollutant?

[NEET 2018]

- (1) CO
- (2) CO₂
- (3) SO₂
- (4) O₃

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Q.7 Which one of the following statements is not valid for aerosols ? [NEET 2017]

- (1) They alter rainfall and monsoon patterns
- (2) They have negative impact on agricultural land
- (3) They cause increased agricultural productivity
- (4) They are harmful to human health

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Q.8 Which of the following are most suitable indicators of SO₂ pollution in the environment? [AIPMT 2015]

- (1) Conifers
- (2) Fungi
- (3) Algae
- (4) Lichens

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Q.9 Acid rain is caused by increase in the atmospheric concentration of - [AIPMT 2015]

- (1) SO_3 and CO (2) CO_2 and CO
(3) O_3 and dust (4) SO_2 and NO_2

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Q.10 A scrubber in the exhaust of a chemical industrial plant removes : [AIPMT 2014]

- (1) particulate matter of the size 5 micrometer or above
(2) particulate matter of the size 2.5 micrometer or less
(3) gases like ozone and methane
(4) gases like sulphur dioxide

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Q.11 The Air (Prevention and Control of Pollution) Act came into force in : [NEET 2013]

- (1) 1985 (2) 1981 (3) 1990 (4) 1975

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Q.12 Which one of the following is not correct as regards the harmful effects of particulate matter of the size 2.5 micrometers or less? [NEET 2013 (Karnataka)]

- (1) It can directly enter into our circulatory system
(2) It can be inhaled into the lungs
(3) It can cause respiratory problems
(4) It can cause inflammation and damage to the lungs

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Q.13 Which one of the following statements is wrong in case of Bhopal tragedy? [AIPMT 2011 (Prelims)]

- (1) Thousands of human beings died
(2) It took place in the night of December 2/3, 1984
(3) Radioactive fallout engulfed Bhopal
(4) Methyl isocyanate gas leakage took place

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Q.14 Which one of the following is the correct expanded form of the given acronym? [AIPMT 2011 (Prelims)]

- (1) IPCC = International Panel for Climate Change
(2) EPA = Environmental Pollution Agency
(3) UNEP = United Nations Environmental policy
(4) IUCN = International Union for Conservation of Nature and Natural Resources

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Q.15 dB is a standard abbreviation used for the quantitative expression of - [AIPMT 2010 (Prelims)]

- (1) the dominant Bacillus in a culture
(2) the density of bacteria in a medium
(3) a certain pesticide
(4) a particular pollutant

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Q.16 Steps taken by the Government of India to control air pollution include : [AIPMT 2009]

- (1) Permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel for vehicles
(2) Compulsory PUC (Pollution Under Control) certification of petrol driven vehicles which tests for carbon monoxide and hydrocarbons
(3) Use of non-polluting Compressed Natural Gas (CNG) only as fuel by all buses and trucks
(4) Compulsory mixing of 20% ethyl alcohol with petrol and 20% biodiesel with diesel

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Q.17 According to Central Pollution Control Board (CPCB), which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health? [AIPMT 2008]

- (1) 2.5 or less (2) 1.5 or less
(3) 1.0 or less (4) 5.2–2.5

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Q.18 In a coal fired power plant electrostatic precipitators are installed to control emission of:-

[AIPMT 2007]

- (1) SPM (2) SO_2 (3) CO (4) NO_x

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Q.19 Photochemical smog pollution does not contain-

[AIPMT 2006]

- (1) Nitrogen dioxide
(2) PAN (peroxy acyl nitrate)
(3) Ozone
(4) Carbon dioxide

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Q.20 In 1984, the Bhopal gas tragedy took place because methyl isocyanate :- [AIPMT 2004]

- (1) Reacted with DDT
(2) Reacted with water
(3) Reacted with ammonia
(4) Reacted with CO_2

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Q.21 Lead concentration in blood is considered alarming if it is - [AIPMT 2004]

- (1) 4-6 $\mu\text{g}/100\text{ mL}$ (2) 30 $\mu\text{g}/100\text{ mL}$
 (3) 20 $\mu\text{g}/100\text{ mL}$ (4) 10 $\mu\text{g}/100\text{ mL}$

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Q.22 What is the intensity of sound in normal conversation? [AIPMT 2001]

- (1) 30–60 dB (2) 10–20 dB
 (3) 120–150 dB (4) 70–90 dB

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	2	3	2	4	3	4	3	4	4	4	2
Ques.	12	13	14	15	16	17	18	19	20	21	22
Ans.	1	3	4	4	2	1	1	4	2	2	1