

QUESTION 2016

Group – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following.
- i) The main source of water in India is
- a) rain water b) ground water ☒ c) surface water d) sea water
- ii) Where is the height of troposphere 12 km?
- ☒ a) equator b) pole c) arctic circle d) Antarctic circle

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- iii) If the temperature of water increases then the dissolved oxygen content in water
☒ a) decreases b) remains same c) increases d) none of these
- iv) What is the normal hearing frequency range?
 a) 60Hz – 60MHz ☒ b) 20Hz – 20kHz c) 20Hz – 20MHz d) 60Hz – 60kHz
- v) Natural reservoirs of water below the earth's surface is
 a) aquiclude ☒ b) aquifer c) aquitard d) aquident
- vi) Hertz is the unit of what?
 a) light ☒ b) sound c) water d) wind
- vii) Taj Mahal, the great historical monument is mainly affected by
 a) H_2SO_4 ☒ b) HCl c) HNO_3 d) HNO_2
- viii) The primary pollutants responsible for photochemical smog formation are
 a) SO_2 and NO_2 ☒ b) hydrocarbon and NO_x
 c) PAN and hydrocarbon d) aldehyde and PAN
- ix) Bhopal Gas Tragedy occurred on
☒ a) December, 1984 b) January, 1986
 c) November, 1985 d) December, 1983
- x) The catalyst used in catalytic converters is finely divided
 a) Ni ☒ b) Pt c) Pd d) Fe
- xi) Kyoto protocol is related to
 a) land degradation b) water resource management
 c) bio-diversity ☒ d) none of these
- xii) Blue Baby syndrome is related to
 a) sulphate ☒ b) nitrate c) phosphate d) carbonate

Group – B

(Short Answer Type Questions)

2. What are the effect of noise pollution on public health? Classify the source of noise pollutions.
 See Topic: NOISE POLLUTION, Short Answer Type Question No. 1.
3. Sound can be utilized for beneficial purpose also. Explain.
 See Topic: NOISE POLLUTION, Short Answer Type Question No. 3.
4. If the 5 days BOD at $37^\circ C$ is 200 mg/L and if the rate of deoxygenating is 0.17/day, what is the ultimate oxygen demand and oxygen remaining after 5 days?
 See Topic: WATER POLLUTION & CONTROL, Short Answer Type Question No. 6.

6. What is BPM? State the harmful effects of BPM in the environment.
 See Topic: AIR POLLUTION & CONTROL, Short Answer Type Question No. 7.
6. Explain different types of biotic and abiotic components of environment with examples.
 See Topic: ECOLOGY, Short Answer Type Question No. 2.

Group - C

(Long Answer Type Questions)

7. a) Explain why composite technique is better than incineration technique of municipal solid waste disposal.
 b) Distinguish between photochemical smog and London smog.
 c) Define ODS with two examples.
 d) Where is catalytic converter used? State the catalysts used and reaction conditions maintained in a catalytic converter.
 a) See Topic: LAND POLLUTION, Short Answer Type Question No. 4.
 b) See Topic: AIR POLLUTION & CONTROL, Short Answer Type Question No. 1(b).
 c) & d) See Topic: AIR POLLUTION & CONTROL, Long Answer Type Question No. 8(a) & (b).
8. What is activated sludge? Describe the activated sludge treatment process of sewage with a neat flow diagram.
 See Topic: AIR POLLUTION & CONTROL, Long Answer Type Question No. 9.
9. a) Define environmental degradation and explain the concept.
 b) Explain the relationship between population and pollution.
 c) Briefly mention the role of NGO's in case of environment protection.
 a) See Topic: FUNDAMENTALS OF ENVIRONMENT, Short Answer Type Question No. 4.
 b) See Topic: ECOLOGY, Short Answer Type Question No. 9.
 c) See Topic: FUNDAMENTALS OF ENVIRONMENT, Short Answer Type Question No. 9.
10. What is Smog? What is the difference between Sulphurous Smog and Photochemical Smog? How is PAN formed? What are the effects of Smog on living organisms?
 See Topic: AIR POLLUTION & CONTROL, Long Answer Type Question No. 10.
11. Write short notes on *three* of the following:
 a) Arsenic pollution, its biochemical effects and remedial measures
 b) Nitrogen cycle
 c) Hydrological cycle
 d) Trickling filter method of waste water treatment
 e) Electrostatic precipitator.
 a) See Topic: WATER POLLUTION & CONTROL, Long Answer Type Question No. 11(h).
 b) See Topic: ECOLOGY, Long Answer Type Question No. 7(a).
 c) See Topic: WATER POLLUTION & CONTROL, Long Answer Type Question No. 11(b).
 d) See Topic: WATER POLLUTION & CONTROL, Long Answer Type Question No. 11(c).
 e) See Topic: AIR POLLUTION & CONTROL, Long Answer Type Question No. 11(d).