1. Describe how global mean temperature is calculated?

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M. Sc. (Third Semester) Examination, Nov.-Dec. 2019

CHEMISTRY

Paper: Third

ENVIRONMENTAL CHEMISTRY

Time Allowed: Three hours

Maximum Marks: 40

Note: Attempt all two sections. Distribution of marks is given with sections,

Section-'A'

(Short Answer Type Questions)

5×3=15

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Note: Attempt all five questions. Each questions carries 03 marks.

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Or Explain biogeochemical cycles of phosphorous or oxygen.

2. Write a note on green house effect.

Write cause of air pollutants and their classification.

- 3. Write method for the determination of BOD or COD.
- 4. Describe bioaccumulation and sources of pollutants heavy metals.

Or

Explain biochemical and damaging effects of heavy metals.

5. Write a note on London smog or three mile island.

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(Long Answer Type Questions)

कार मार्च पूर्व तम्बंदा राजना Note: Attempt all five questions. Each questions carries 05 marks.

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Describe mechanism of photochemical decomposition of NO₂ and formation of ozone.

Explain and show the impact of hydroxyl radicals with methane and other compounds. .

7. Write a detailed note on climate change and its consequences. http://www.ujjainstudy.com

Or

Describe damaging effects and control strategies of CO and Ozone.

8. Write a detailed note on aerobic and anaerobic reaction in water.

Or

Explain:

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(a) Acid base chemistry of fresh water

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(b) Redox chemistry in natural waters

9: Write sources structures of polynuclear aromatic hydrocarbons as pollutants.

Write detection and damaging effect of ionosphere pesticides.

10. Describe in detailed Bhopal gas tragedy, it causes and impact.

Or

Give an account of sil composition and presence of micro and macro-nutrients and their effects.

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