

ad: 2024: C whtV to 36

(FYUGP)

3rd Semester)

ENVIRONMENTAL SCIENCE

major)

Paper Code : EVS/C-6T

(Atmosphere and Global Climate Change)

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Full Marks: 75
Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. (a) Give a detailed account of the earth's atmospheric structure and composition.

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(b) Define greenhouse effect. Mention different causative factors leading to greenhouse effect. Write any five consequences of greenhouse effect.

2+8+5=15

(Turn Over)

2. (a) Write a note on the effect of urbanization on microclimate of an area and ways to mitigate it. Differentiate between El Niño and La Niña effects.

10+5=15

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- (b) Mention the characteristics and classification of a tropical cyclone. Give a brief account of Indian monsoon and its development. 8+7=15
- 3. (a) Explain in detail five meteorological parameters.

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Or

- (b) What are atmospheric stability and mining heights? Explain the Gaussian prime model. 5+10=15
- 4. (a) What are the environmental impacts of acid-base reactions in the atmosphere?

 Define smog and write a detailed note on the types of smog and the processes leading to smog formation. 4+2+5+4=15

Or

(b) Give a detailed account on the ozone layer depletion, its causes, effects and mitigation measures.

15

5. (a) Explain the impact of climate change on economy and spread of human diseases. 7+8=15

Or

(b) Explain and discuss the key aspect of the Montreal Protocol, 1987 and Kyoto Protocol, 1997.

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