

M.Sc. Examination, 2019
Semester-II
Environmental Science
Course : MEC-22
(Air Pollution)

Time : 3 Hours

Full Marks : 40

Questions are of value as indicated in the margin

Answer question No. **1** and **any four** from the rest.

1. Write short notes on **any four** of the following : 2×4=8
 - a) "Criteria air pollutants"
 - b) Van Allen Belts
 - c) Exceedence factor
 - d) PAN
 - e) Equivalent Noise
 - f) Octave bands
 2. a) What are the various gaseous chemical species present in the atmosphere?
b) State the different types of reactive and unstable chemical species found in the atmosphere and how are they formed? 3+(3+2)=8
 3. a) Define air pollution.
b) Differentiate between primary and secondary air pollutants.
c) Discuss the sources/formation and effects of one primary and one secondary air pollutant on plants. 1+2+(2.5+2.5)=8
 4. Discuss the effects of particulate and gaseous air pollutants on human health. 4+4=8
 5. You are asked to monitor one primary and one secondary air pollutant. How will you proceed? 4+4=8
 6. a) What is National Ambient Air Quality Monitoring Programme?
b) Enumerate the new air quality standard and how does it differ from the previous standard. 3+3+2=8
 7. a) How can one control air pollutants from the stationary sources.
b) Discuss the principle and applications of catalytic converter. 5+3=8
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