...(CBCS Scheme) Examination

...IRONMENTAL SCIENCE

(Air and Noise Pollution)

Paper—VII

M.S...

[Maximum Marks : 80

...Three Hours]

Note :— All questions are compulsory and carry equal marks.

1. (a) Explain natural sources of air pollutants with their specific pollutants. 4

   (b) Explain mechanism of formation of photochemical smog with reactions. 4

   (c) Describe various point and area sources under stationary and mobile sources. 4

   (d) Which are the possible oxides of nitrogen formed in atmosphere and explain their sources. 4

OR

   (e) What is smog ? Explain classical smog. 4

   (f) Explain kinds of air quality standards. 4

   (g) Give origin and possible atmospheric reactions of SO_x. 4

   (h) Write the general mechanism of formation of aerosols. 4

2. What is greenhouse effect ? Discuss greenhouse gases, their sources and consequences. 16

OR

Discuss Ozone Depleting Substances (ODS), their sources and effects of ozone depletion. Give account of causes and effects of climate change. 16

3. (a) Describe effects of particulates on human beings and discuss effects of SO_x on human and material. 8

   (b) Discuss principle, diagram and applications of Orsat apparatus. 8

OR

   (c) Discuss principle, diagram and applications of high volume sampler. 8

   (d) Discuss effects of Carbon monoxide and NO_x on human beings and material. 8

4. (i) Explain relation between temperature inversion and air pollution. 4

   (j) With the help of diagram explain sea breezes. 4

   (k) Explain how Indian cities are become heat islands during summer. 4

   (l) Explain advective inversion. 4

OR

(m) With the help of diagram explain wi[illegible]

(n) How does the temperature inversion take place ?

(o) What type of atmospheric conditions increase pollution in cities ?

(p) Describe radiative inversion. 4

5. (q) Define noise and explain its types. 4

(r) Explain measures to control traffic/vehicular noise. 4

(s) Explain units and measurement of noise. 4

(t) What is the effect of noise on hearing ? 4

OR

(u) Explain indoor noise and their sources. 4

(v) How noise pollution can affect the working efficiency of people ? 4

(w) Explain how indoor noise can be minimized/control. 4

(x) Describe sonic boom. 4

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