SARDAR PATEL UNIVERSITY

(PL)

M.Sc. (EST) (First Semester) Examination (NC)

Tuesday, 19 March, 2019 Time: 10.00 am to 1.00 pm

PS01CEST22: Air Pollution and Climate Change

Max. Marks: 70 **Multiple Choice Questions (Choose Correct Answer)** [80]Q.1. In atmosphere, the ratio of Oxygen and Nitrogen is (1) (b) 1: 3.77 (d) 1: 3.73 (a) 1: 3.33 (c) 1: 3.37 Photochemical smog does not contain (2) (b) PAN $(c) O_3$ (d) HC (a) HNO₃ Phosgene is synonymous to (3) (c) Carbonyl Nitrate (d) Carbonyl Chloride (a) Carbonyl Sulpahte (b) Carbonyl Phospahte Following is a carcinogenic HC, which causes Hepatic Cancer. (4) (c) Vinyl Nitrate (d) Vinyl Chloride (b) Vinyl Phospahte (a) Vinyl Sulpahte At 20,000 ppm, Benzene causes (5) (a) ENT infections (b) Lung cancer (c) CNS disorders (d) Death Insoluble aerosols are carried to the _____ system of human body. (6)(c) circulatory (d) respiratory (b) pneumatic (a) lymphatic Vulnerability is ______ of things to be damaged by a hazard. **(7)** (b) probability (a) propensity (c) possibility (d) None of land of India is vulnerable to severe earthquakes. (8) (c) 68% (b) 58% (d) 8% (a) 12% Attempt followings (Any Seven). [14] Q.2. Atmosphere as a resource (1)Causative factors for anthropogenic air pollution (2) (3) CO₂ emission and its undesirable effects Composition of air (4)Effects of atomic bombings (5) Enlist indoor air pollutants along with its sources (6)(7) Enlist major classes of air pollutants Enlist major disasters in India (8)(9) PAP, OAP, CAP (a) Explain general effects of air pollution on humans with special reference to cardiac and [06] Q.3. pulmonary diseases. Describe effects of NOx and SOx on plants, humans, and materials. [06] Write a note on ozone (types, depletion, effects, recovery). [06] **(b)** Describe man-made sources of air pollution with suitable examples. [06] Q.4. (a) Discuss general effects of air pollution on plants, animals, and materials. [06] (b) OR Write a note on effects of HC and PM on plants, humans, and materials. [06]Discuss formation of PCS and process of acid deposition. Add a note on general as well [06] Q.5. (a) as specific effects of acid rain on forest decline. Write a detailed note on aeroallergens with special emphasis on RAST. [06](b)OR Tabulate: 1. Main sources of air pollution 2. Types of air pollutants (Gaseous) [06] **(b)** Describe principles of disaster management in detail. [06] (a) Q.6. Short Notes: Flood, Drought, Cyclone, Landslide, Avalanche [06]OR Short Notes: Nodal agencies for DM in India, Flowchart of DM continuum, National [06]

