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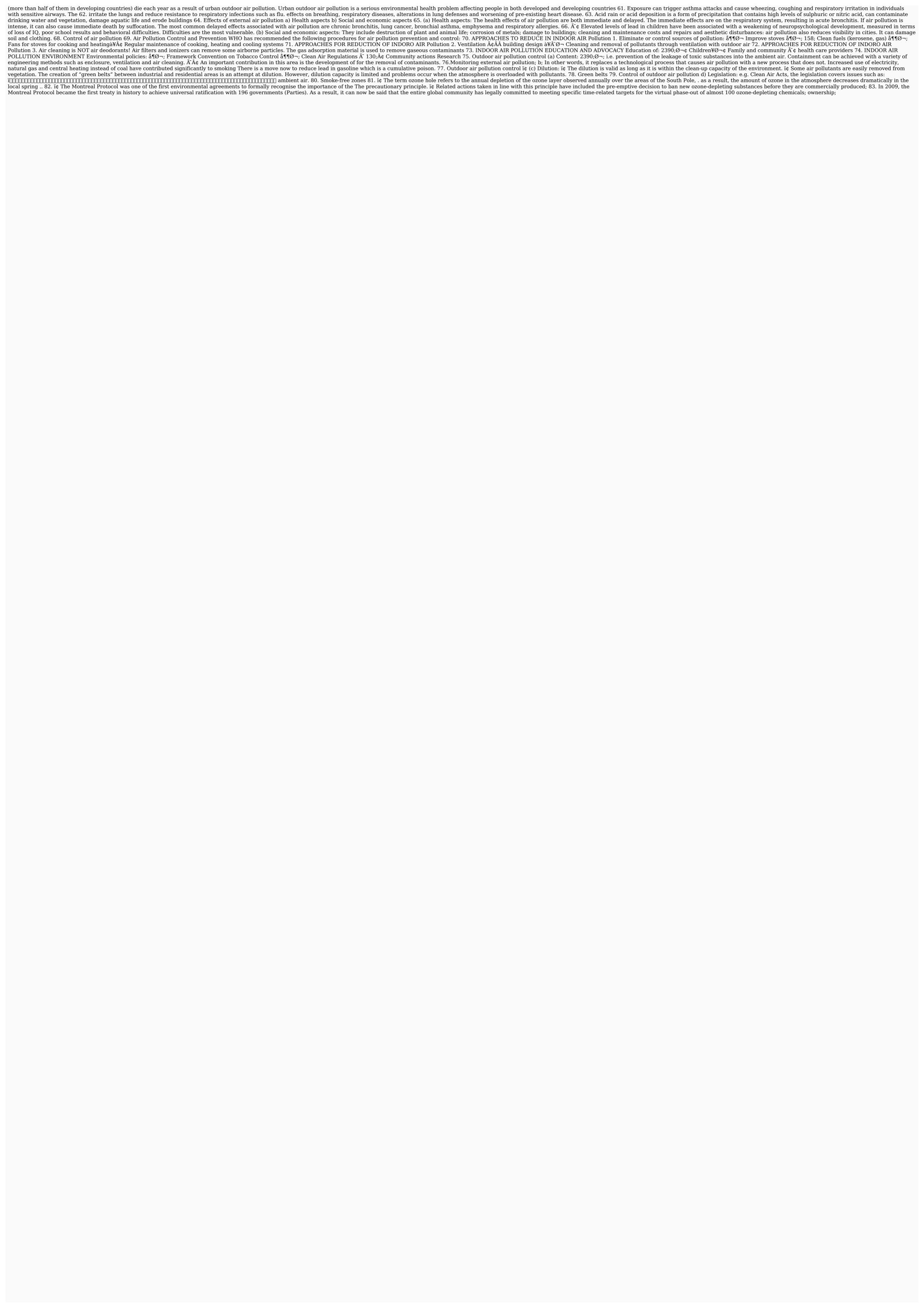






1. Dr. Suha M. Aabdeen MBBS U of K 2. Introduction ¥ -⎠The air is essential for life itself, without it we could only survive a few minutes. Ã-ãâââ.ž constitutes an immediate physical environment of living organisms å¶ø¬; The atmosphere is lying in four distinct: troposphere, stratosphere, mesosphere and thermosphere. 3. Normal components of our atmosphere \tilde{A}^- 129; \pm \hat{A} \pm nitrogen - 78.1% \tilde{A}^- 129; \hat{A} \pm \pm \pm \pm \pm ± ± ± ± ± 17777; \ Era; \hat{A} . \hat{A}^- 128; \hat{A} |. \hat{A}^- 36ââ WHOLE can be defined as any atmospheric condition in which some substances are present in such concentrations that can produce undesirable effects on humans and its environment, 6,226; 128; â ¢ All visible or invisible particles or gases present in the air that are not part of the original and normal composition. 7. What is atmospheric pollution? Ã-âââ € - atmospheric pollutants: ex ozone. 8. Sources of primary atmospheric pollutants: ex ozone. 8. Sources of primary atmospheric pollutants 9. The main sources of atmospheric pollution are: a) Automobiles: and a source of greater atmospheric pollution in all urban areas. a ¥ -ÂŽ emit hydrocarbons, carbon oxide, lead, nitrogen oxides and particles are a source of greater atmosphere into "photochemical" pollutants of an oxidizing nature. 10. The main sources of atmospheric pollution are: à ¥-ø¬; Furthermore, diesel engines, when used or poorly regulated, are able to emit black smoke and smelly fumes. 11. The main sources of pollution are: b) INDUSTRIES: 2390; fuel burning to generate heat and energy produces smoke, sulphur ekrolchemical industries generate hydrogen fluoride, hydrochloric acid and organic halides. 12. The main sources of atmospheric pollution are: à ¥-ø¬ many industries download their waste from high temperature and high-speed fireplaces. 13. The main sources of atmospheric pollution are: c) domestic sources and important source of smoke, dust, sulfur dioxide and nitrogen oxides. (D) Tobacco smoke: 2390; AZ The most direct and important source of smoke, dust, sulfur dioxide and nitrogen oxides. can inhale the smoke produced by others ("passive smoke"). 14. The main sources of atmospheric pollution are: e) miscellaneous: 239; 130; ø¬ These include combustion waste, incinerators, spraying of pesticides, natural sources (for example, wind dust, mushrooms, molds, bacteria) and nuclear power programs. All these contribute to atmospheric pollution. 15. NOTHE226; â € œA à ¥ -ÂŽ Although the earth's atmosphere extends to different layers over the surface, is only the first 30 km holding most atmosphere. Ã-ââ € âKe the level of atmospheric pollution at any time depends on meteorological factors, such as topography, air movement and climate. \tilde{A}^- âââ Vž Venti help in the dispersion and dilution of pollutants. \tilde{A}^- ÂâââKe if the topography is dominated by the mountains (or high buildings) the winds become weak and calm, and pollutants tend to focus into the breathing area. 16. NOTHE226; $\hat{a} \in \hat{a} \times \hat{A}^-$ Âââ The vertical diffusion of pollutants depends on the temperature gradient. \tilde{A} - \hat{A} ... when there is a quick cooling of lower air layers (temperature inversion), there is little vertical and pollutants and water vapors remain trapped at lower levels and the result is "smog." \tilde{A} - \hat{A} \$\$\tau\$ the "temperature inversion" which is most frequent in winter winter which in spring or summer, is a threat to human health. 17. (1) Carbon monoxide \tilde{A}^- . A1/2 is colorless, odorless gas, a product of incomplete combustion of carbon-containing materials, such as in cars, industrial processes, heating plants and incinerators \tilde{A}^- . A1/2 some non-biological natural diffusibles and biological Also sources have been identified. Concentrations of \tilde{A}^- in urban areas depend on the density of time and traffic. 18. Effect of CO pollution on health: A, trigger the harmful effect by reducing the delivery of oxygeen to the body organ, in a high estermellial level can cause death. The affinity of A, A3/4 co" for HB is 240 - 270 times greater than oxygen and fetal HB has a higher affinity for CO, so it competes with O2 to bind (irreversibly) with hemoglobin. 19. Effect of CO pollution on health: A, from this exposure to reduce the oxygen-carcinating capacity of the blood to the heart, brain and other organs. A, it deprives the body of O2 causing headaches, fatigue, me and impaired vision. 20. (2) Sulphur dioxide A, is one of the various forms in which sulfur exists in the air. A, others include H2S, H2SO4AD SALFATE SALTS. Sulphur dioxide is, sulphur dioxide comes from the combustion of sulphur containing fossil fuel, and when coal and fuel oil are burned. National fires a strong acid which is formed by the reaction of sulfur trixide gas (S03) with water. 21. (3) Nitric oxide, nitric oxide (NO2), which has greater health effects, is a secondary pollutant created by the oxidation of not under sunlight conditions, or can be formed directly by a higher temperature A, combustion in power plants or inside the gas stoves. 22. (3) Nitrogen dioxide which should not be exceeded (i.e. the guideline levels) are respectively AžÂ¹/4g / m3 (0.21 parts per million (ppm) for an hour and 150 AžÂ¹/4g / m3 (0.08 ppm) for 24 hours (WHO, 1987a). 23. (4) Particulate matter à ¥ -ø¬ represents A complex mixture of organic and inorganic substances. à ¥ -â² The mass and the composition tend to divide into two main groups: à ¥ -øa² £ 2,5 Ã,µm in aerodynamic diameter. Ã âââââââââ € The smaller storms) and many others that are more Diffuses and more important (for example, power plants and industrial processes, domestic burns of C Arbone, industrial incinerators). 25. (5) Ozone at the level of soilà ¥-ø¬ This is formed when pollutants such as nitrogen oxides and volatile organic compounds (VOC) react to sunlight. A¯âââ € â € high levels can cause respiratory problems, reduce pulmonary function and trigger asthma symptoms. Āâââ € ozone at earth level can even seriously damage crops and vegetation. Ā̄âââ € aKe ozone is a powerful greenhouse gas and contributes to global warming both directly and reducing carbon absorption from vegetation. 26.5) Ozone at the ground level Ã 130; Ø 'The WHO guidelines are 150à ¢ â € Ã|²Ãžý g / m3 (0.076à ¢ â € â €; † † † † † † Å € â € â €; † † † † † † Å € â € â € $^{\text{m}}$ g / m3 (0.07662.0pp6) for exposures of an hour (WHO 778.1 ppm) for exposure of an hour and 100668; Smog à 130; ÅŽ Smog consists of mixture of Such pollutants in the atmosphere. Ã ¢ â € ¢ Combination of smoking words and fog. Ã ¢ â € ¢ There are two types: reduction of smog characterized by sulfur and particulate anhydride. à £ šâ € ¢ and smog Photochimic characterized by ozone and other oxidants. 128;¢ Smog-related deaths were in London in 1873; 500 deaths; Can you imagine how much worse the atmosphere is now?! ⢠Limits Limits Limits A ¢ â,¬ â ¢ declude UV radiation A ¢ â,¬ â â ¢ yellow / black over the city à ¢ â,¬ ¢ due to respiratory problems and bronchial deaths Related 29. Ã Ã Heather pollutant, although man generates a huge amount of it in the combustion process using coal, oil and gas. Ã, carbon dioxide is a natural air constituent. A, does not participate in significant chemical reactions with other substances in the air. It is, however, its global concentration is increasing above the natural level with an amount that could increase the global concentration is increased to influence the climate markedly 31. Volatile organic compounds: A-a½ VOC are divided into separate categories of methane (CH4) and not -metano (nmvocs) A-, methane methane is an extremely efficient greenhouse gas that contributes to improving global warming A-A-4 nmvocs, the aromatic benzene, toluene and xylene compounds are suspected carcinogens and can lead to leukemia through Prolonged exposure. 35 32. Polyinuclear aromatic hydrocarbons (PAH): \tilde{A} , and a large group of organic compounds with two or more benzene rings. \tilde{A} , are formed mainly as a result - of pyrolytic processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials, as well as in natural processes, in particular the incomplete combustion of organic materials. Polyinuclear aromatic hydrocarbons (PAH): \tilde{A}^- and 18 ng in 1978/79; Modern low tadly cigarette smoke can be 22 ng / m3. \tilde{A}^- , in the past, the spaces of the fireplace and the Tops have been dermatilely exposed to considerable quantities of Pah and there are sufficient evidence that skin cancer in of these workers was caused by PAH. 34. Polynuclear aromatic hydrocarbons (PAH): ï, epidemiological studies of ï-Ž in coke-oven workers, coal gas workers and aluminium employeesPlants provide sufficient evidence of the role of PAH in induction of lung cancer. "i, due to its carcinogenicity, no safe level of PAH is recommended. 35. Toxic metals: copper lead "i-Ž Metals are produced by different factories and can have immediate health effects on human health 39 36. Other | "i-Ž chlorofluorocarbons: (cfcs) af "i, 1/4 Perossiacetil Nitrate (PAN) 37. Monitoring of air pollution 38. © 2009 Abctiach.com 39. Monitoring of air pollution i-Ž The best indicators of air pollution are: (1) sulphur dioxide. (2) Smoke and suspended particles: i-Ž A known air volume is filtered through a white filter paper in specified conditions and the stain is measured by the photoelectric meter, i, the concentration of smoke Grit and dust measurement: "ž deposit calibers collect Grit, powder and other solids. There are monthly analyses, "i, (D) Haze coefficient: "i, a factor used, especially in the United States in assessing the amount of smoke or other aerosols in the air, 42. Monitoring air pollution "i-Ž (e) AOI: Air quality index - indicates whether air pollutants can cause health problems or not. ât cranging from 0 (minor) to 500 (more concern) 43. Types of air pollution Air pollution 45. Indoor pollution is one of the most critical global Problems, i, probably exposes more people around the world to important atmospheric pollutants than outdoor pollutants than outdoor pollution. i, Rural people in developing countries can receive up to two thirds (2/3) of global exposure to particulates. 46. According to the WHO around about 3 billion burned biomass (wood, animal hydrate, crop waste) and a further 0.4 billion coal use. \ddot{i} , This cooking and heating produces high levels of atmospheric pollution \ddot{i} , in poorly ventilated homes, the interior smoke can be 100 times higher than acceptable levels for small particles. Expo The exposure is particularly

high between women and small children, who spend the most time near the domestic hearth 48. Tobacco smoke gas ovens cigarettes gas anhydride carbon dioxide breathing formaldehyde particle board carpet stickers isolation 49. pollutants sources dioxide of Sulfur Other Organic Vapors (Benzene, Toluene, etc.) Solvents Adesives Resin Products Aerosol Sprays Ozone Electric Arcing UV Light Sources Radon & $\hat{a} \in \text{CBabines} \hat{a} \in \text{Building Material Asbestos Insulation FireRoofing Mineral Fibers Appliances 50. Fuelli Fire Stoves Open produce heavy smoke containing fireplaces, ovens Ney fireplaces, ovens Ney fireplaces in leaking and air intakes garage heating per room and water any place where combustion is incomplete 52. secondary for problems in fire fires, fireplaces, ovens Ney fireplaces in leaking and air intakes garage heating per room and water any place where combustion is incomplete 52. secondary for problems in fire fires, fireplaces, ovens Ney fireplaces in leaking and air intakes garage heating per room and water any place where combustion is incomplete 52. secondary for problems in fireplaces, ovens Ney fireplaces, ovens Ney fireplaces, ovens Ney fireplaces in leaking and air intakes garage heating per room and water any place where combustion is incomplete 52. secondary for problems in fireplaces, ovens Ney fireplaces, oven Ne$



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