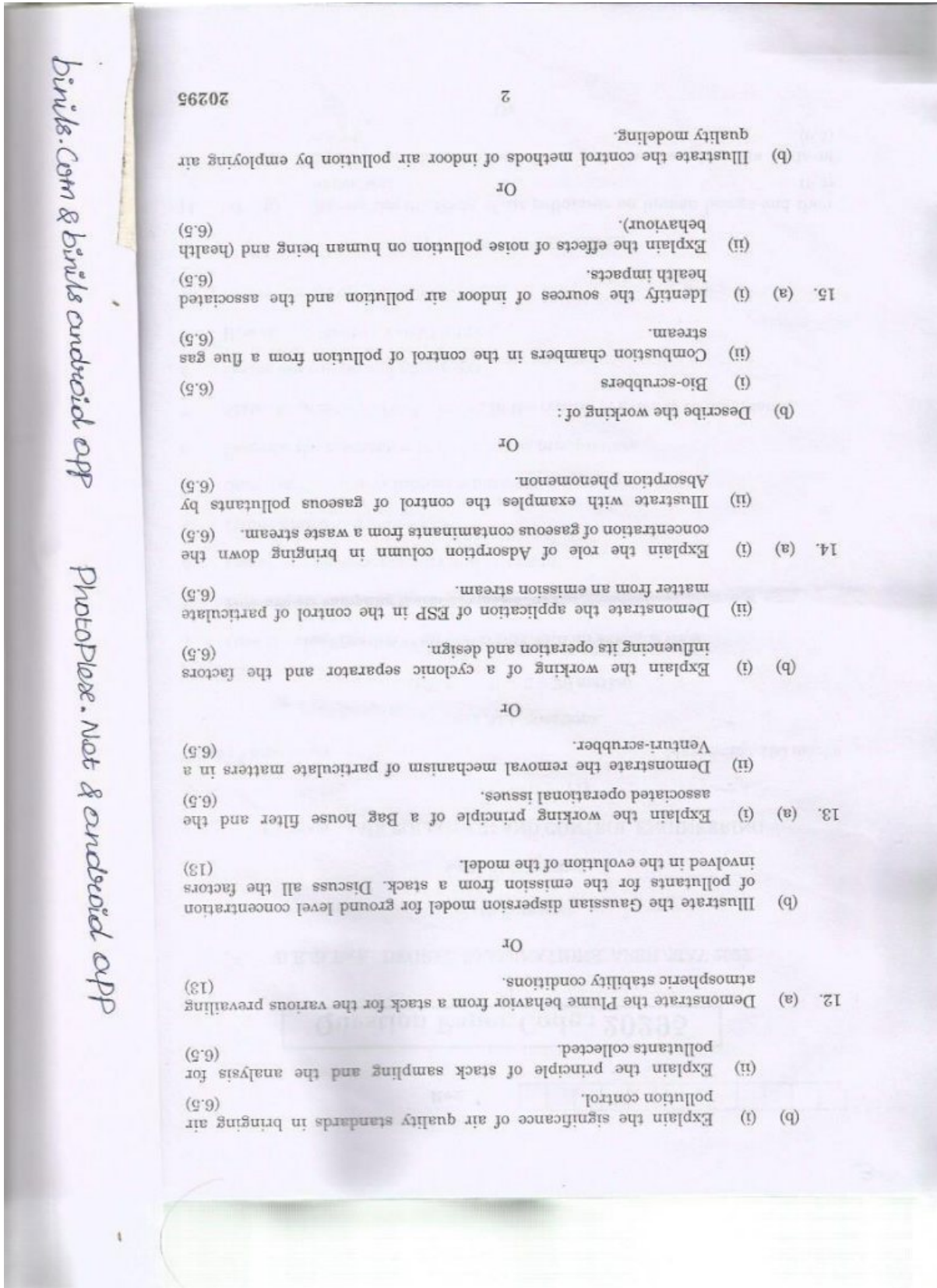


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(b) Illustrate the control methods of indoor air pollution by employing air quality modeling.

Or

15. (a) (i) Identify the sources of indoor air pollution and the associated health impacts. (6.5)
(ii) Explain the effects of noise pollution on human being and (health behaviour). (6.5)
- (b) Describe the working of :
(i) Bio-scrubbers (6.5)
(ii) Combustion chambers in the control of pollution from a flue gas stream. (6.5)

Or

14. (a) (i) Explain the role of Adsorption column in bringing down the concentration of gaseous contaminants from a waste stream. (6.5)
(ii) Illustrate with examples the control of gaseous pollutants by Absorption phenomenon. (6.5)
- (b) (i) Explain the working of a cyclonic separator and the factors influencing its operation and design. (6.5)
(ii) Demonstrate the application of ESP in the control of particulate matter from an emission stream. (6.5)

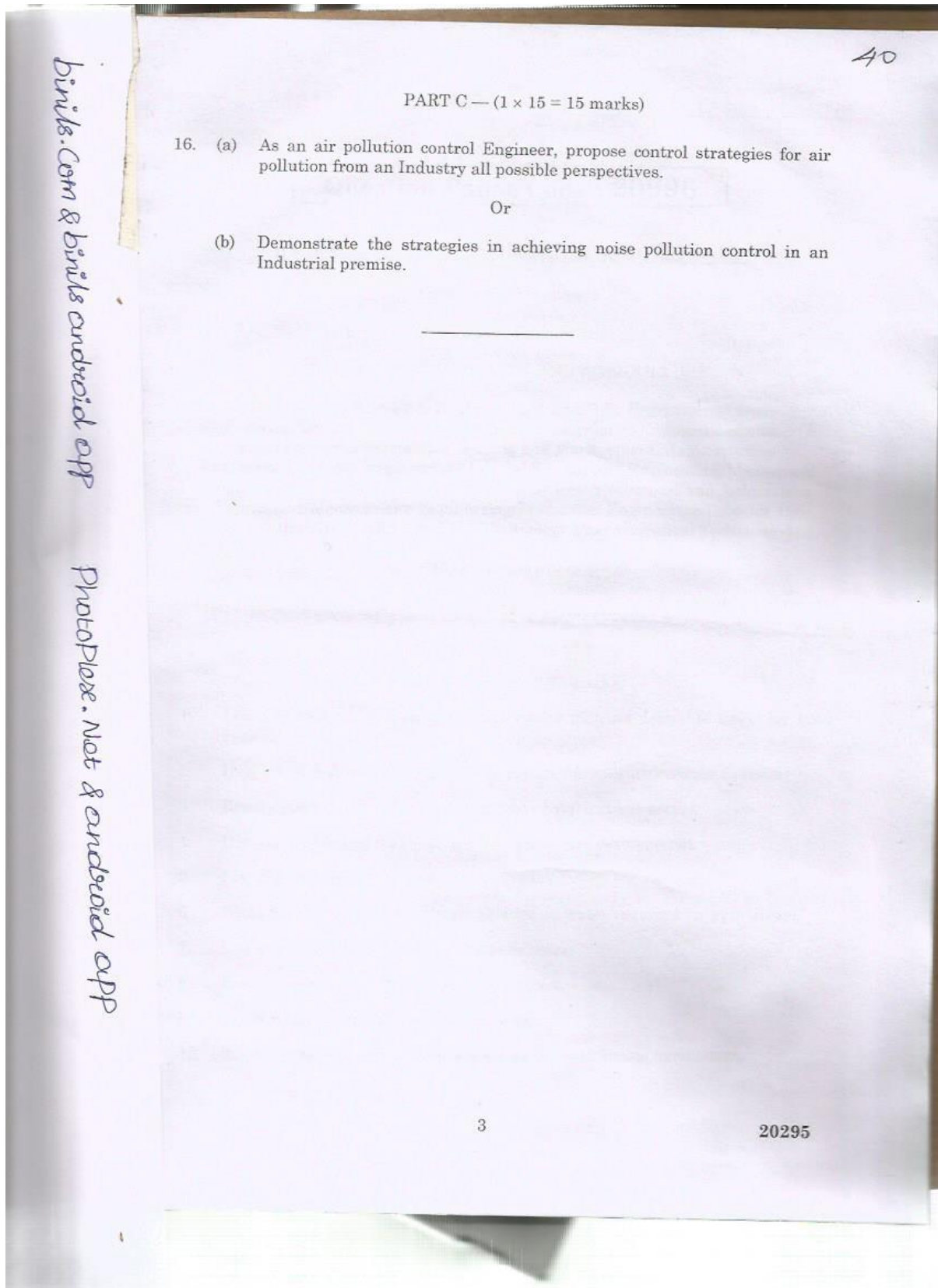
Or

13. (a) (i) Explain the working principle of a Bag house filter and the associated operational issues. (6.5)
(ii) Demonstrate the removal mechanism of particulate matters in a Venturi-scrubber. (6.5)
- (b) Illustrate the Gaussian dispersion model for ground level concentration of pollutants for the emission from a stack. Discuss all the factors involved in the evolution of the model. (13)

Or

12. (a) Demonstrate the Plume behavior from a stack for the various prevailing atmospheric stability conditions. (13)
- (b) (i) Explain the significance of air quality standards in bringing air pollution control. (6.5)
(ii) Explain the principle of stack sampling and the analysis for pollutants collected. (6.5)

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