

15. Rao, K. L., India's Water Wealth, Orient Longman, New Delhi, 1979.
16. Singh, R. A. and Singh, S. R., Water Management: Principles and Practices, Tara Publication, Varanasi, 1979.
17. Smith, K., Water in Britain: A Study in Applied Hydrology and Resource Geography, McMillan, London, 1972.
18. Tebbutt, T. H. Y. (ed.), Advances in Water Engineering, Elsevier Applied Science Publishers, London, 1985.
19. Tideman, E. M., Watershed Management: Guidelines for Indian Conditions, Omega, New Delhi, 1996.
20. Todd, D. K., Ground Water Hydrology, John Wiley and Sons, New York, 1959.
21. U. S. D. A., The Year Book of Agriculture: Water, Oxford and I. B. H. Publishing Co., New Delhi, 1955.
22. Verghese, B. G., Water of Hope: Integrated Water Resource Development and Regional Co-operation within the Himalayan-Ganga-Brahmaputra-Barak Basin, Oxford IBH, New Delhi, 1990.
23. White, G. F. L., Environmental Effects of Complex River Development, Westriver Press, Boulder, Colorado, 1977.

**M. A. / M. Sc. (Final) Geography
Paper – III (B): Industrial Geography**

Unit – I

- a) Nature and scope of industrial geography, recent development in industrial geography.
- b) Classification of industries: bases and characteristics.
- c) Elements and factors of industrial localisation.
- d) Centralisation and decentralisation of industrial enterprises.
- e) Horizontal, vertical and diagonal linkages of industries.

Unit – II

Basic economic concepts:

- a) Demand, supply and price; marginal cost and average cost.
- b) Economies of scale and agglomeration and related concepts.

Critical review of theories and models of industrial location:

- c) A. Weber, E. M. Hoover, August Losch and A. Fetter.
- d) Schooler, G. T. Renner, A. Pred and Palander Tord.
- e) D. M. Smith, E. M. Rawstron, Bos H. C. & Hamilton.

Unit – III

Geographical analysis of selected industries in the world with reference to India:

- a) Copper, aluminium and iron and steel.
- b) Pulp and paper, textile.
- c) Oil refining and shipbuilding.
- d) Software industries.
- e) Locational analysis of zinc and cement industry of Rajasthan.

Unit – IV

- a) Industrial location and spatial distribution analysis and measures: coefficients of localisation, specialisation, geographic association and index of diversification.
- b) Delimitation of industrial regions: indices and methods.

Study of major industrial regions of the world:

- c) Ruhr region and Great Lakes region.
- d) Industrial belt of Japan, Ukraine region and Lancashire region.
- e) Major industrial regions of India.

Unit – V

- a) Environmental degradation caused by manufacturing industries.
- b) Industrial hazards and health.
- c) Impact of industries on economic development.
- d) Role of globalisation on manufacturing sector in less developed countries.
- e) Shifting of industries and its impact on the urban fringe.

Suggested Readings:

1. Adam, Watter, Structure of American Industry, Macmillan & Co., New York.
2. Alexander, J. W., Economic Geography, Prentice Hall, New York.
3. Alexanderson, G., Geography of Manufacturing, Prentice Hall, New York., 1967.
4. Bengston, N. A. and V. L. Royen, Fundamental of Economic Geography, Prentice Hall, New York.

5. Boesch, H., A Geography of World Economy, D. Van-
Nostrand Co., New York, 1964.
6. Britton, John N. H., Regional Analysis and Economic
Geography, G. Bell & Sons.
7. Carlson, A. S., Economic Geography of Industrial Materials,
Rinchart Publishing Corporation.
8. Eastall, R. C. and R. O. Buchanan, Industrial Activity and
Economic Geography, Hutchinson, London.
9. Hoover, E. M., The Location of Economic Activity, McGraw
Hill, New York, 1948.
10. Joshi, Hemlata , Industrial Geography of India: A Case
History of Fertiliser Industry, Rawat Publishers, Jaipur.
11. Lloyd, P. and P. Dicken, Location in Space: A Theoretical
Approach to Economic Geography, Harper and Row, New
York, 1978.
12. Losch, August, The Economics of Location, Yale University
Press, London, 1973.
13. McCarty, Harold H. and Lindberg, A Preface to Economic
Geography, Prentice Hall, New York.
14. Miller, E. W., A Geography of Manufacturing, Prentice Hall,
New York, 1962.
15. Renner, G T., Geography of Industrial Localisation, Economic
Geography, Vol. 23, 1947.
16. Riley, R. C., Industrial Geography, Chatto and Windus,
London, 1973.
17. Saushkin, Yu. G., Economic Geography: Theory and methods,
Progress Publishers, Moscow, 1980.
18. Smith, D. M., Industrial Location: An Economic Geographical
Analysis, Wiley, New York, 1971.