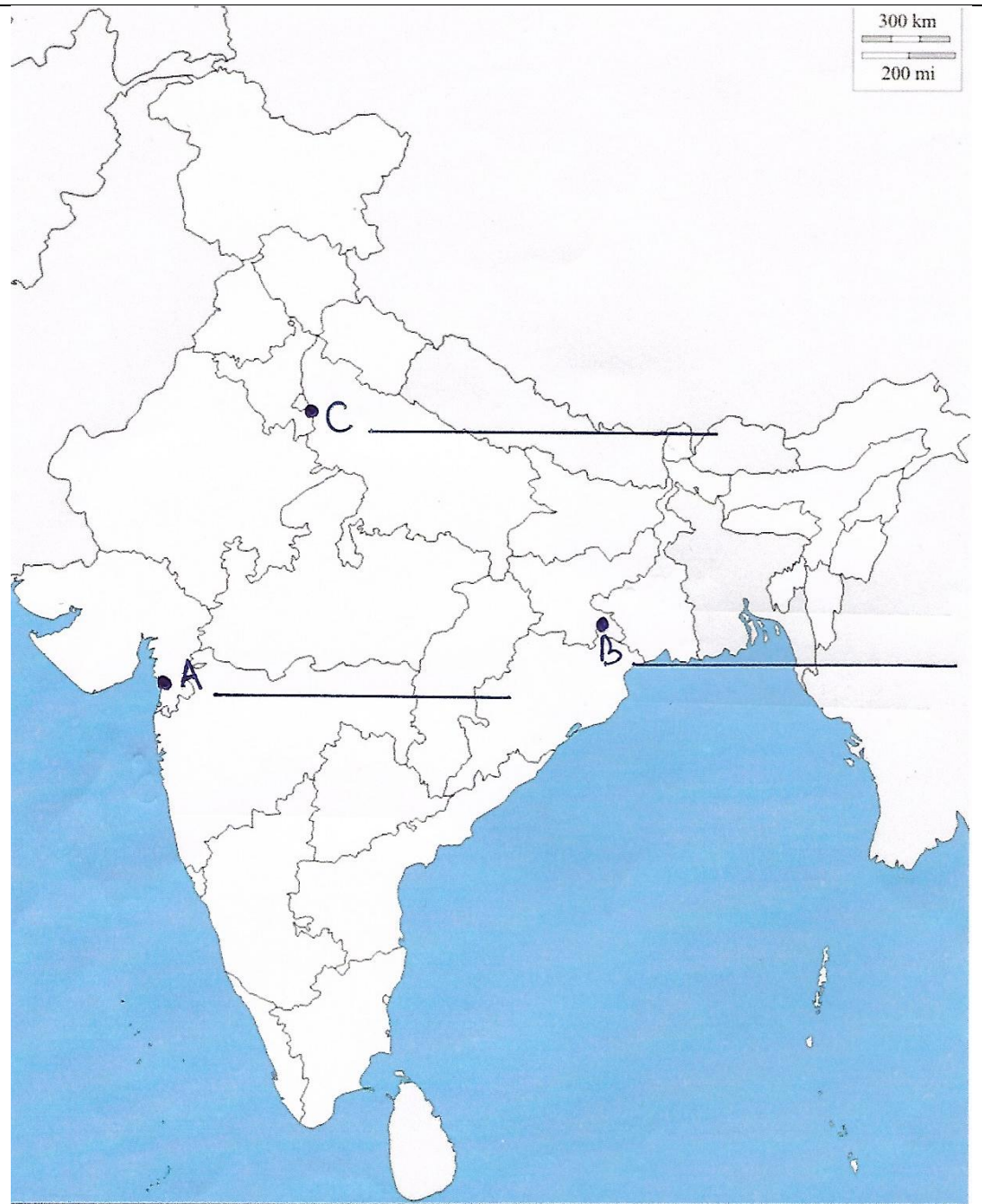


CHAPTER	GEOGRAPHY: MANUFACTURING INDUSTRIES
CLASS TRANSACTION About 3 periods a week- total 3 and a half weeks	Total 10 periods (approx 40 min. each) Sub-Topics: ➤ Significance of manufacturing ➤ Contribution of industries to national economy ➤ Factors for industrial location ➤ Classification of industries ➤ Spatial distribution of Agro-based and Mineral-based industries in India ➤ Industrial pollution and environmental degradation ➤ Control of environmental degradation
LEARNING OBJECTIVE	The students will be able: • To analyze the significance of manufacturing • To differentiate between the various types of industries • To understand the factors determining industrial locations in India • To appreciate the role of industries in the economy of the country • To examine the factors affecting the spatial distribution of mineral based and agro based industries • To find out the ways to combat the problem of industrial pollution and environmental degradation
PRE-REQUISITE FOR THE COURSE (KNOWLEDGE)	This lesson requires • A basic understanding of manufacturing • A basic understanding of role of industries in our day to day life
METHODOLOGY-TEACHER'S ACTIVITY	• Through an activity "Role of Manufacturing in our life" in our life would be discussed. • Building upon the responses during discussion "types of industries" would be discussed. • Using the facts related to charts/ maps in the chapter analysis would be drawn regarding the distribution of industries in India. • News clippings with regard to industrial pollution would be shared and inferences would be drawn about control of industrial pollution. • It would enable the teacher to thoroughly discuss the need for preventing environmental degradation. • It would enable teacher to generate sensitization among learners to play a significant role in promoting environment friendly life style.
STUDENTS' LEARNING OUTCOMES	The learners would- • Acknowledge and develop critical thinking for the need of the judicious utilization of goods • Understand the spatial distribution of various industries • Responsibly participate in map-work and map interpretation for industrial centres • Sensitize towards prevention of environmental degradation • Be motivated to adopt environment friendly ways in life • Understand the phrase "sustainable development requires integration of

	economic development with environmental concerns”.
TEACHING AIDS	• CAL module using explanation content • Visual illustrations in the book • News clippings with regard to industrial pollution and environmental hazards
RECAPITULATION	Question will be asked from- • Role of industries in national economy • Relationship between agriculture and industries • Classification of industries on the basis of their main role and ownership • Factors determining industrial location • Reason for major concentration on iron and steel plants in Chhotanagpur region • Centres of IT industry (Software technology) • Causes and consequences of industrial pollution • Ways of preventing environmental degradation
SELF-STUDY AND HOME-WORK ASSIGNMENT	1. Why are most of the jute mills located along the Hooghly river basin? 2. Classify industries on the basis of weight of raw material and finished goods. 3. Examine the reasons for major concentration of iron and steel plants in the north-eastern part of Peninsular Plateau region. 4. Describe the characteristics of aluminium smelting industry. 5. “The chemical industry in India is fast growing and diversifying.” Explain. 6. Locate and label the following in the outline political map of India- a) An iron and steel plant in West Bengal b) A software technology centre in Telangana, U.P. and Maharashtra each c) A cotton textile centre each in Tamil Nadu, M.P. and Gujarat 7. Identify the following shown in the map of India with the help of the key Points: A) A cotton textile centre in Gujarat B) An iron and steel plant in Jharkhand C) A software technology park in U.P.



8. Why is sugar industry showing a migrating trend towards southern states?
9. Mention two prime factors responsible for the location of Aluminium Smelting industry.