## **Subject: Geography CBCS (HONS)**

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## **CC: C9T**

Shubbrea Chandrea Semeater - IV (Hons. Paper - C9T "LEBER'S THEORY OF INDUSTRIAL LOCATION Afred Weber was a German industrial economis who first put forward his theory of industrial location in 1909. The main object of his theory was to identify the point of minimum transport cost. This libeory is called "Least Transport Cost Theory Basic Assumption : 1.) I coustry on a region with uniformly plainland and hunid climate 2) Labour forces are geographically fixed. 3) Economy is a closed system, economy with localized inputs and distribution of output within the region 4) Transport cost is directly proportional to the goods and distance travelled 5) Individual buyers by and sellers do not influence the price of the products by their own actions. Classification of rais materials Raw Material Localised Ubiquitous Non-Weight ( Weightloss

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Concept of Material Index:

Material index (m) is calculated as the ratio between the weight of the localised new material input (Rw) and the weight of finished product (Fw)

$$m = \frac{R\omega}{F\omega}$$

According, to Weber, m can be of three situation i) First Situation (M>1) - Is this case industry uses impure new materials. For minimise transport cost industry will be located near new material source. This is known as new material agglomenation. i) Second Dituation (M=1) - In this case, uses five new material. In this situation industry may be located at either new material centre on market centre on any place between two. This is known as Deglomenation.

iii) Third Situation (M<1) - In this case industry pure now materials and the other is ubiquities. This is known market agglomeration.

Weber has explained the location of an industry

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on the least transport cost location using a Locational triangle'. In a weight - losing manufac Levering process such as iron smelling, the least transport root location is near to the sources of the raw material . In a weight-gaining industry such as baking, a market - orientated location is attractive. allractive. Weber also examined the effects of labour costs on location since he considered that industries would be located away from the point of least transport costs to the point of least labour costs additional transport costs involved in such a move. For this, he has used "sodapares (cost contour; or lines of equal transport cost per unit of production Créticism: 1. His transport rates and the effects of agglomeration is too abstract. 2. He has been criticised for his emphasis upon supply analysing the effect of different costs while holding demand constant at a point, thus preventing it from playing a role in plant location Reference :--DEconomic and Social Geography - Made Simple Series - Knowled, Wareing.

VON THÜNEN'S MODEL AGRICULTURAL LANDUSE The earliest of the spatial variation in agricultural activity theory is that of the German Johann Henrich Don Thüsen in 1826. He was a practising agriculturist. He studied the different agricultural gones around the city, presented an analytical framework for studying various types of cultivation around a city on the basis of economic relationship between a city and reveal Pareas; He considered various problems on spatial exchange economy e.g. the influence of city on the price formation of agricultural goods, influence of distance from city upon the agriculture and net income of farmers and influences of growing cities upon the cultivated reveal areas Basic Assumptions The theory initially makes the following assumptions: -1) Loolated state, culout from outside influences 2) Single large city dominates as the oole weban market.

3) The assumption of a levelled featureless plain with equal fertility. 4) Mode of transportation and cost of transportation is uniform. 5) Surveounding plair provide food for city in return for service. 6) Farmer knows how to maximise his profit. Zoning System of Von Thinsen: Von Thinen postulated that six concentric gones of agriculture would develop around the market city. o Central City III - Market Gardening & Milk Production Firewood Production == - Grean farming without H+ - Grain Farming, Fallows [00] - Three Field System ["r"] - Livestock Farming - Navigable River Location of Agricultural Product (After Von Thüsen)

Zone-1 - The land nearest to the market would be resed to produce perishable items, e.g. milk and regetable. These activities are concentrated in the inner some because of the slowness of transpor-relation and absence of refrigeration. Zone - 2 - The inhabitant of second concentric gone. would specialize in producing wood, with firewood in much greater demand than timber. Zone 3,485 - These areas would tend to be devoted mainly to grains and other crops. The distinction among these gones need not be spelled out here, except to note that with dislance from the city, the intensity of cultivation would decrease. Zone-6 - This would be the region of livestock forming. Modification - Von Thüsen theory would be modified by the presence of a navigable river and a smaller mareket city. The river would provide cheaper transportation, hence its effect would be to lengthen out the zone along its course. The smaller city would serve zones around itself on a smaller scale than those around the larger city and extending further on the side away from the main city.