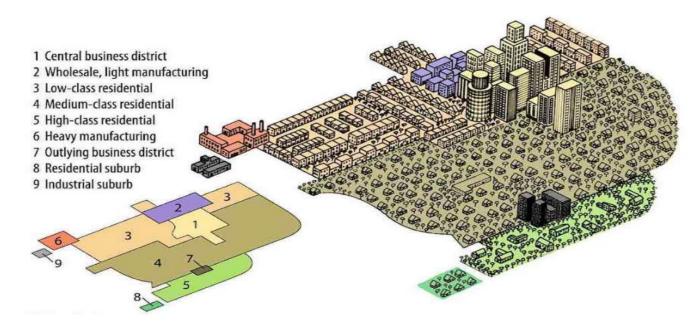


SETTLEMENT GEOGRAPHY



URBAN STRUCTURE AND PATTERNS – MODELS OF URBAN STRUCTURE

RAJENDRA DAVECHAND



Urban structure and patterns

- Internal structure and patterns of urban settlements:
 - Land-use zones, including reasons for location and characteristics
 - Commercial
 - Residential
 - Industrial
 - Zone of decay/Transition zone
 - Green belt
 - Rural-urban fringe
 - Factors influencing the morphological structure of a city
 - Urban profiles
 - Concept of urban profile
 - Reasons for shape of urban profile
- Models of urban structure:
 - Burgess/Concentric
 - Hoyt/Sector
 - Harris and Ullman/Multiple nuclei
 - Modern American-western city
 - Third World city
 - South African city
 - Changing urban patterns and land use in South Africa





- Models of urban structure:
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 - Hoyt/Sector
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Urban structure is the arrangement of land use in urban areas, in other words, how the land use of a city is set out.

Urban pattern. Is the pattern of the city is the way how different functions and elements of the settlement form are distributed and mixed together spatially.

Urban settlements are generally nucleated



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Geography with Dave

Burgess/Concentric Zone Model







Central Business District (CBD)
Factories / Industry
Working class housing
Middle class housing
Commuter zone







Burgess/Concentric Zone Model

Land use zones develop in concentric circles/zones around the CBD. CBD is in the centre.

- Transition zone around CBD.
- Factories in area around CBD

Distance from factories – low income closest and high income furthest.

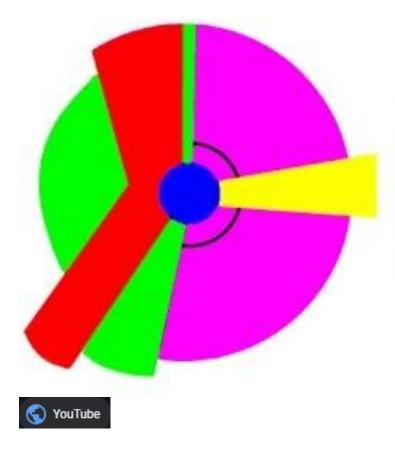
Criticisms

CBD is in most accessible area and not always in centre All industrial and commercial activity is not in a specific area Did not consider transport routes and it's effect on spread of activities e.g. commercial





Hoyt's Sector Model



The Hoyt Model

CBD Factories / Industry (transitional) Low Class Residential (old inner city area) Medium Class Residential (inter-war period) High Class Residential (modern suburbs)



Hoyt's Sector Model

Land use zones develop in sectors around the CBD

Emphasis on high income area

Distance from factories – low income closest and high income furthest

CBD is in the centre

Development occurs along transport routes

Criticisms

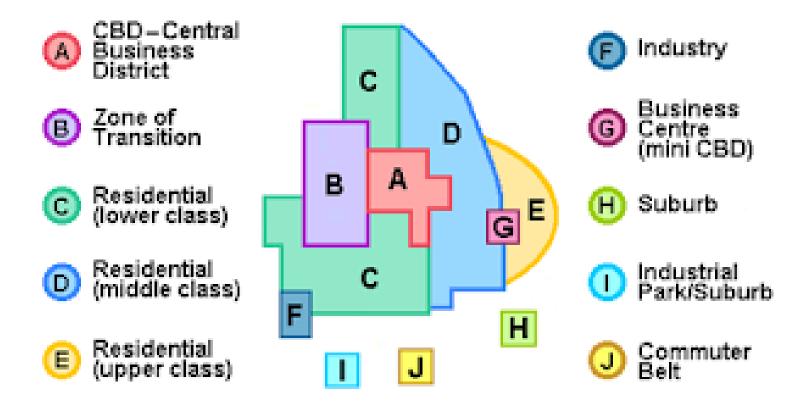
CBD is in most accessible area and not always in centre All industrial and commercial activity is not in a specific area.





Harris and Ullman's Multiple Nuclei Model

🗧 🕄 Blog Sprawl







Harris and Ullman's Multiple Nuclei Model Land use develop around different nuclei, depending on the needs of that land use e.g.

- Heavy industry near bulk transport
- CBD most accessible area
- High income aesthetic appeal
- Low income near place of employment
- No set structure regarding model. It will change from one urban area to the next.





Modern American-western city



Movement of people into urban area e.g. rural-urban migration Movement of people out of urban area e.g. commercial decentralization/urban-rural migration.



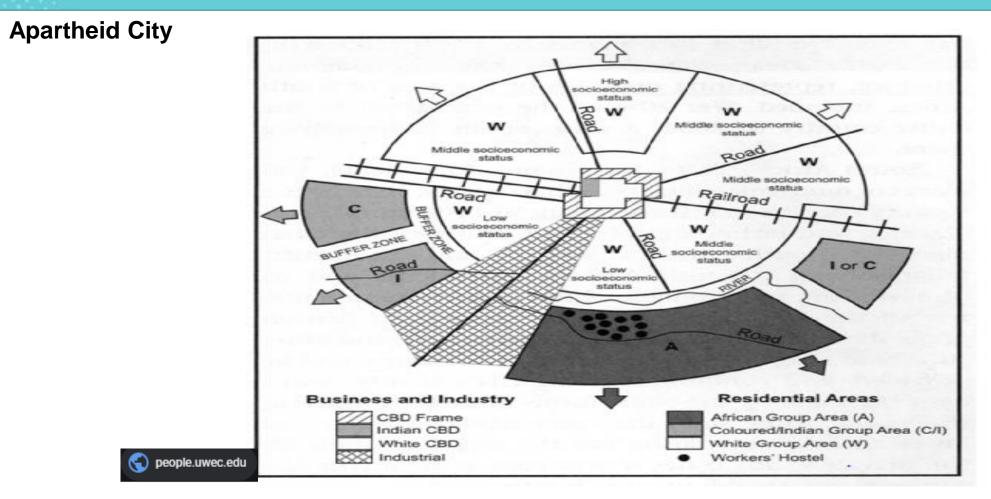


Third World city



- Large scale rural urban migration due to opportunities in the urban areas
- Natural increase
- Formal and large scale informal settlements

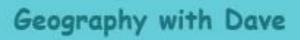




South African city

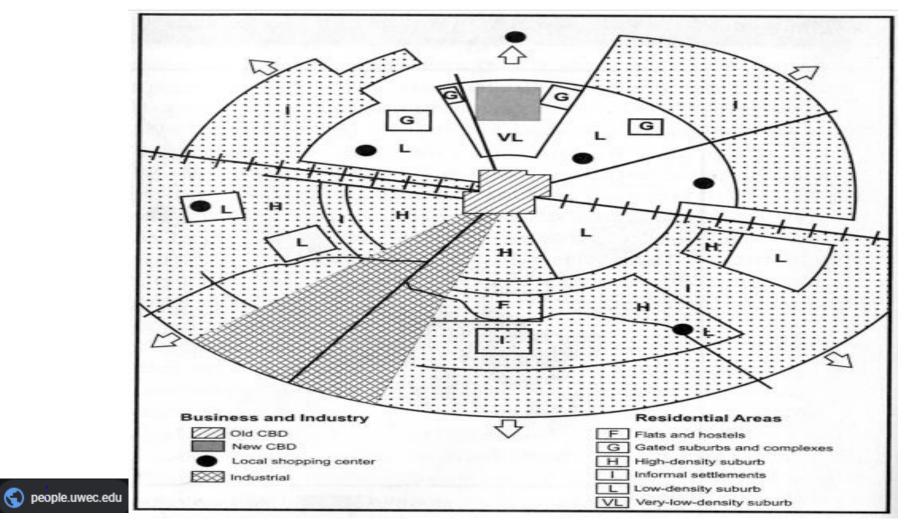
Influenced by the apartheid policy in the past e.g. Group areas act.

South Africa is undergoing transition due to Democracy



Post Apartheid City







Changing urban patterns and land use and the South African city



- Urban renewal refers to renovating of the urban area
- Facadism keeping the external front of the building but modifying the rest of the building
- Gentrification- upgrade run down areas in the inner city
- Invasion and succession-one inappropriate land use replaced by another more appropriate land use e.g. residential to commercial.

Decentralisation of functions

- Commercial functions moving to the residential area
- Convenience of having different functions in one area.

R. Davechand 2020

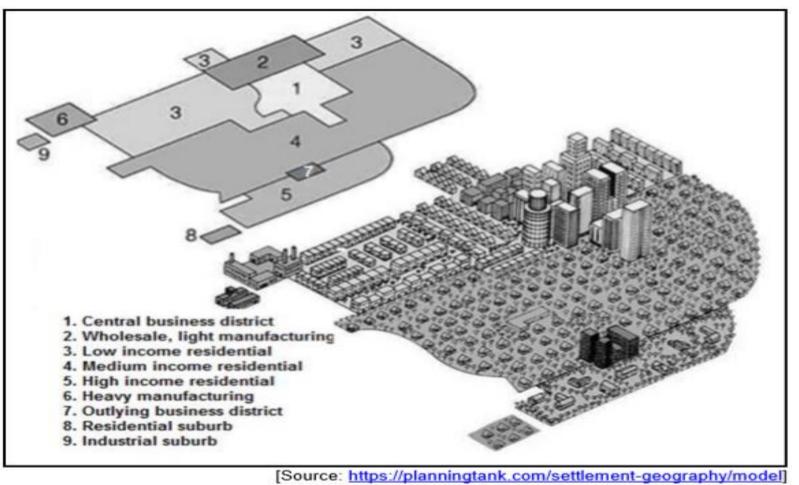
Geography with Dave



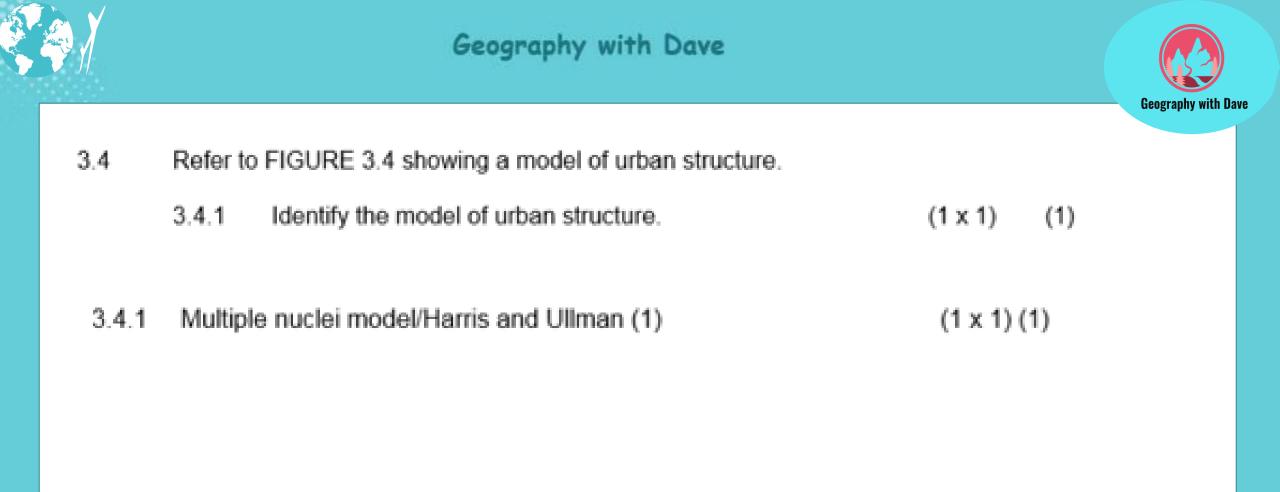


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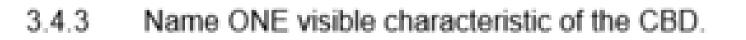








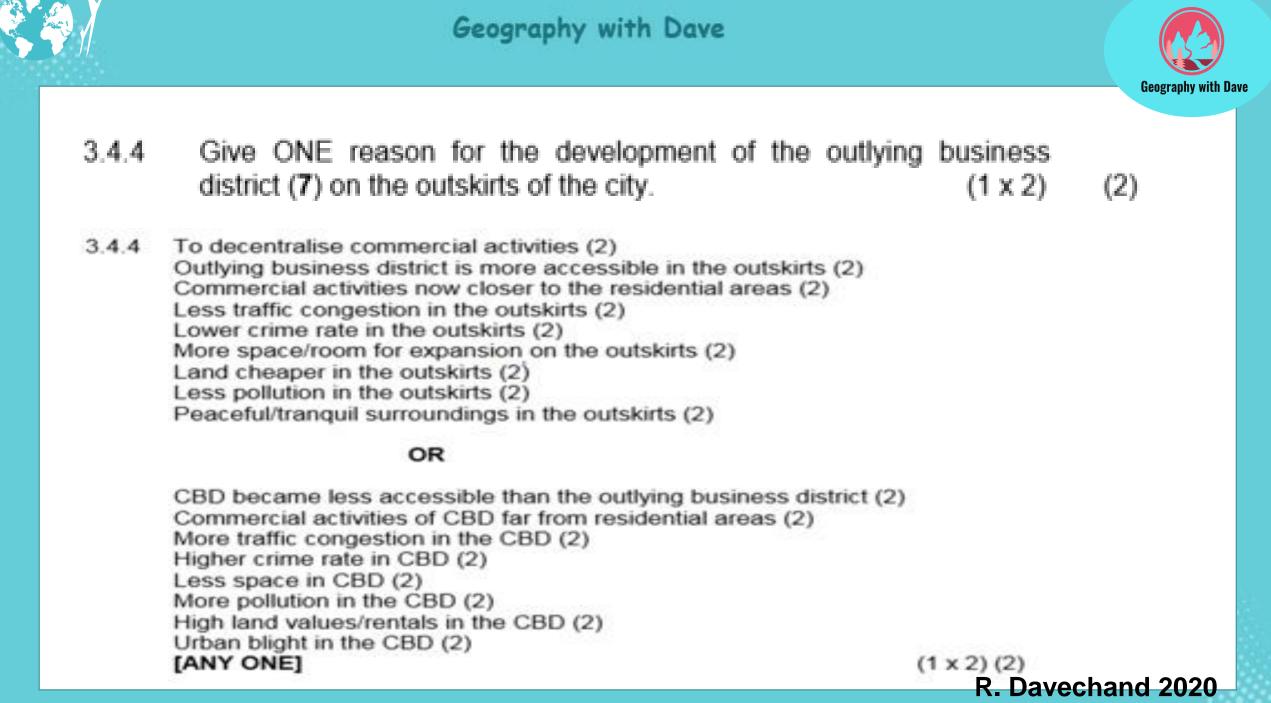




3.4.3 Tall buildings/skyscrapers (1) High building density (1) [ANY ONE] Geography with Dave

(1 x 1) (1)

(1 x 1) (1)





3.4.5 Refer to land-use zones 5 and 6.

- (a) Comment on the location of land-use zones 5 and 6 in relation to each other. (1 x 2) (2)
- (b) Compatibility (ability to live or to exist together) determines the location of land-use zones in an urban area. Give reasons why 5 and 6 are not compatible. (2 x 2) (4)

3.4.5 (a) Land-use zones 5 and 6 are far apart (2) Located on opposite sides of the city (2) [ANY ONE] (1 x 2) (2)

(b) Heavy manufacturing industrial land use zones cause a lot of noise pollution which does not suit high income residential zones (2)
Air pollution from industrial areas repels (push away) high-income residential zones (2)
Unpleasant odours from industrial areas is not attractive to high-income residential zones (2)
Heavy industries are not aesthetically pleasing for people in high-income residential areas (2)
Influx of traffic congestion near heavy manufacturing land-use zones does not suit high income residential zones (2)
[ANY TWO]







3.4.6 What are the similarities between the South African city and the model identified in FIGURE 3.4.1? (2 x 2) (4)

3.4.6 There is a clear separation between high, middle and low income residential areas (2) Separation between suburbs and the workplace (2) Sharply defined land-use zones (2) Tall buildings/high building density in the CBD of both (2) [ANY TWO] (2 x 2) (4)

