



URBAN GEOGRAPHY

Camden Adams



3G E-LEARNING

URBAN GEOGRAPHY

CAMDEN ADAMS



3G E-LEARNING

© 2025 3G E-learning LLC

90 Church Street

FL 1 #3514

New York, NY 10008

United States of America

www.3ge-learning.com

email: info@3ge-learning.com

Authored and Edited by 3G E-learning LLC, USA

ISBN: 978-1-98469-578-9

This book contains information obtained from highly regarded resources. A wide variety of references are listed. Reasonable efforts have been made to publish reliable data and information, but the authors, editors, and the publisher cannot assume responsibility for the legality of all materials or the consequences of their use. The authors, editors, and the publisher have attempted to trace the copyright holders of all material in this publication and express regret to copyright holders if permission to publish has not been obtained. If any copyright material has not been acknowledged, let us know so we may rectify in any future reprint.

Notice: Registered trademark of products or corporate names are used only for explanation and identification without intent of infringement. Case Studies and/or Images presented in the book are the proprietary information of the respective organizations, and have been used here specifically and only for educational purposes. Although care has been taken to check accuracy of formulas and procedures, the detailed methods should be tested further on a small scale before being adopted commercially.

For more information about 3G E-Learning LLC and its products, visit www.3ge-learning.com

TABLE OF CONTENTS

1

<i>Glossary</i>	<i>xiii</i>
<i>Preface</i>	<i>xix</i>
Introduction to Urban Geography	1
Introduction.....	1
1.1 Definition and Scope of Urban Geography	2
1.1.1 Defining the Urban	3
1.1.2 Definition of Urban Geography	4
1.1.3 Scope of Urban Geography.....	4
1.2 Historical Evolution of Cities.....	4
1.2.1 Early Cities	5
1.2.2 Medieval and Early Modern Era.....	8
1.2.3 Industrialization and The Modern World	11
1.3 Key Concepts: Urbanization, Urbanism, and Urban Growth.....	14
1.3.1 Urbanization	15
1.3.2 Urbanism	16
1.3.3 Urban Growth.....	17
1.4 Trends and Patterns of Global Urbanization	19
1.4.1 Global Trends of Urbanisation	19
1.4.2 Global Pattens of Urbanisation.....	20
Summary.....	29
Multiple Choice Questions.....	30
Review Questions	31
Learn More Online	32
References	33

2

Urbanization and Economic Development 35

Introduction.....	35
2.1 Relationship between Urbanization and Economic Growth.....	36
2.1.1 Pathways to Prosperity.....	39
2.1.2 Why does Urbanization foster development?	39
2.1.3 The Experience of Advanced Economies.....	40
2.1.4 Challenges Facing Cities in the Global SOUTH	40
2.1.5 An Agenda for Analysis	41
2.1.6 Market Forces and Urban Expansion.....	42
2.2 Urbanization and Economic Complexity.....	44
2.2.1 Economic Complexity and Urbanization	46
2.2.2 Exports Diversification and Urbanization.....	48
2.2.3 Urbanization Growth and Country Fitness.....	50
2.2.4 Urban fitness trends.....	51
2.3 Industrialization and Urban Development.....	52
2.3.1 Industrialization and Industrial Pollution.....	52
2.3.2 Urbanization Occurs Near Bodies of Water	56
2.3.3 A Brief History of Industrialization	56
2.3.4 Industrialization to Urbanization	57
2.3.5 Urbanization after Industrialization.....	59
2.3.6 Impact of the Industrial Revolution	59
Summary.....	67
Multiple Choice Questions.....	67
Review Questions.....	68
Learn More Online	69
References	69

3

Theories of Urban Structure 71

Introduction	71
3.1 Classic Models: Concentric Zone, Sector, Multiple Nuclei.....	73
3.1.1 Structure of Cities.....	73
3.1.2 The Concentric Zone Model	74
3.1.3 The Sector Theory.....	78
3.1.4 The Multiple Nuclei Theory	80
3.1.5 The Theory of Community Development	81
3.2 Modern Theories of Urban Form and Spatial Organization.....	89
3.2.1 Theories of Urban Planning.....	89

3.2.2. Urban Realms Model	90
3.2.3. Postmodern Urbanism.....	90
3.2.4. Smart Growth	90
3.2.5. New Urbanism.....	91
3.2.6. Sustainable Urbanism.....	91
3.2.7. Networked Urbanism.....	91
3.2.8. Resilient Cities Theory.....	92
3.3 Urban Morphology and Land Use.....	92
3.3.1 Theories of Urban Morphology	93
3.3.2 Historical Context of Urban Morphology	93
3.3.3 Elements of Urban Morphology	93
3.3.4 Land Use Patterns and Their Implications	94
3.3.5 Case Studies in Urban Morphology	95
3.3.6 Future Trends in Urban Morphology and Land Use.....	96
Summary.....	98
Multiple Choice Questions.....	98
Review Questions	99
Learn More Online	100
References	100

4

Urban Planning and Policy

101

Introduction.....	101
4.1 Urban Planning.....	102
4.1.1 The Development of Urban Planning	104
4.1.2 Urban Form	110
4.1.3 The Scope of Planning	111
4.1.4 Types of Urban Planning.....	117
4.1.5 Importance of Urban Planning in Managing Urban Growth.....	119
4.2 Zoning, Land Use, and Urban Design.....	120
4.2.1 Zoning and Its Historical Evolution	121
4.2.2 Types of Zoning.....	122
4.2.3 Land Use.....	122
4.2.4 The Role of Urban Design.....	122
4.2.5 Zoning, Land Use, and Urban Design: Integration and Challenges.....	123
4.2.6 Smart Cities and Future Trends	123
4.3 Urban Policy and Governance.....	124
4.3.1 The Role of Urban Policy.....	124

4.3.2 Governance and Its Role in Urban Development.....	125
4.3.3 Global Trends and Evolving Urban Challenges	126
4.4 The Role of Planners and Stakeholders	127
4.4.1 Urban Planners	128
4.4.2 Stakeholders in Urban Planning	128
4.4.3 Collaboration and Conflict.....	129
4.4.4 Challenges in Stakeholder Engagement	130
Summary	133
Multiple Choice Questions.....	133
Review Questions	134
Learn more Online	134
References	135

5

Migration, Housing, and Urban Inequality 137

Introduction.....	137
5.1 Understanding Migration.....	138
5.1.1 Meaning of Migration.....	139
5.1.2 Migration: A Sociological Concern	140
5.1.3 Migration and Social Structure	140
5.1.4 The Migration Cycle	142
5.1.5 Internal and International 'Migration'	142
5.1.6 Difficulty of Obtaining Migration Flow Data	143
5.1.7 Migration and Population Change in Africa.....	144
5.2 Internal Migration	144
5.2.1 Why Internal Migration Study?	145
5.2.2 Reasons for Migration	146
5.2.3 Factors of Internal Migration.....	148
5.2.4 Streams in Internal Migration	149
5.2.5 Migration and Gender	151
5.3 Housing Crisis.....	151
5.3.1 Housing Shortage.....	152
5.3.2 Financial Crisis	156
5.4 Urban Inequalities in the 21st Century Economy.....	157
5.4.1 Theorizing Inequality in the New Urban Economy.....	158
5.4.2 Inter-urban Inequalities in Regional and Global Context	162
5.4.3 Intra-urban Dynamics of Inequality: Housing.....	163

6

5.4.4 Intra-urban Dynamics of Inequality: Residential Segregation.....	165
5.4.5 Multidimensional Urban Inequalities	166
Summary.....	171
Multiple Choice Questions.....	172
Review Questions.....	173
Learn More Online	173
References	173

Urban Transportation and Infrastructure 175

Introduction.....	175
6.1 Urban Growth and Transport	
6.1.1 Statistical Analysis.....	178
6.1.2 Spatial Proximity Analysis.....	180
6.1.3 Transportation and the Urban Form	180
6.1.4 The Urban Form	182
6.1.5 Evolution of Transportation and Urban Form	184
6.1.6 The Spatial Constraints of Urban Transportation.....	185
6.1.7 Transportation and the Urban Structure.....	187
6.2 Role of Transport in Urban Growth	189
6.2.1 Transport and Urban Growth.....	190
6.2.2 Urban Travel/Movement of People.....	190
6.2.3 The Importance of Public Transportation for Sustainability in Arctic Cities	192
6.2.4 The Importance of Urban Transportation, Managements and Strategies.....	193
6.2.5 Land Use and Transportation.....	195
6.2.6 Sustainable Urban Mobility	196
6.3 Climate Risk for Urban Transport.....	201
6.3.1 Adaptation Options and Strategies for Climate-Resilient Transport.....	202
6.4 Urban Infrastructure Issues.....	205
Summary.....	210
Multiple Choice Questions.....	211
Review Questions	212
Learn More Online	212
References	212

7

Global Cities and World Urban Systems 215

Introduction.....	215
7.1 The Global City: Introducing A Concept.....	217
7.1.1 Elements in a New Conceptual Architecture.....	218
7.1.2 The Global City Model: Organizing Hypotheses.....	218
7.1.3 Recovering Place and Work-Process.....	220
7.1.4 Worldwide Networks and Central Command Functions.....	221
7.1.5 Impacts of New Communication Technologies on Centrality.....	225
7.1.6 The Global City as a Nexus for New Politico-Cultural Alignments.....	226
7.2 Navigating Global Cities.....	228
7.3 World-City Network.....	231
7.3.1 Attributes without Relations: Research Clusters in World-City Studies.....	232
7.3.2 World Cities in a Network Society.....	234
7.3.3 Global Office Location Strategies.....	235
7.3.4 An Intercity Global Network.....	236
7.4 The Impact of Globalization on the Development of City Logistics.....	238
7.4.1 The Impact of Globalization on Urban Development.....	239
7.4.2 The Development of City Logistics.....	241
Summary.....	250
Multiple Choice Questions.....	251
Review Questions.....	252
Learn More Online.....	253
References.....	253

8

Environmental Challenges in Urban Areas 255

Introduction.....	255
8.1 Urban Sprawl and Environmental Degradation.....	256
8.1.1 Health.....	258
8.1.2 Transportation and Consumption of Energy.....	258
8.1.3 Air Pollution.....	259
8.1.4 Natural and Protected Areas.....	261
8.1.5 Agricultural Land Area.....	262
8.1.6 Soil.....	262
8.1.7 Water Quality.....	263

8.1.8 Noise Pollution	265
8.1.9 Urban Biodiversity	266
8.1.10 Urban Climate.....	268
8.1.11 Socio-economic Impacts	269
8.1.12 Social Capital	269
8.2 Urban Resilience and Climate Change Adaptation.....	270
8.3 Green Cities and Sustainability	273
8.3.1 Green Cities Definition	274
8.3.2 Green City Concept: What Would a Sustainable City Look Like?	275
8.3.3 Reasons to Build Sustainable Cities.....	276
8.3.4 Characteristics of Sustainable Cities: The Role of Nature	278
8.3.5 The Future of Sustainable Cities	279
Summary.....	285
Multiple Choice Questions.....	286
Review Questions	287
Learn More Online	287
References	287