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Measuring Mental Quality of Life of Citizens in Different Areas in Terms of Objective (Physical) Development; Case Study: districts no.3, 6, and 9 in Mashhad

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Abstract

In this article, it has been tried to analyze the mental satisfaction of the quality of life in different regions in terms of objective development. For this purpose, districts no. 3, 6, and 9 of Mashhad city which through the measures of education, income, and employment were respectively among the deprived, the average, and the privileged regions were selected as the case study areas. Moreover, to measure the mental satisfaction of the local people of the quality of life, a questionnaire considering three basic dimensions of quality of life, i.e. economic, environmental, and physical sustainability (residential environment, the quality of these infrastructures) was designed. The sample size equals 385 people who according to the population of study area were divided into clusters. The research findings showed that there is little or no significant difference between these districts in terms of the desired measures, so that in terms of economic issues, the district no. 9 had a better condition than the other two. There was no significant difference between the districts no. 3 and 9. Regarding satisfaction of the quality of housing and infrastructure, the inhabitants in the district no. 6 showed less satisfaction than others. In this regard, no significant difference was observed between the districts no. 3 and 6; however, regarding satisfaction of the environmental situation, there was a significant difference between the districts no. 3 and 9, whereas the district no. 6 was an exception. Generally, the district no. 9 in Mashhad has a better condition in terms of objective development, social status, and quality of mental life. In contrast, regarding these indices, the district no. 3 is among the poorest regions, so in terms of quality of mental life is in a average state. Yet, the district no. 6 due to its development and the middle social status has a less unfavorable condition in terms of the quality of life.

Key Words: quality of life, quality of mental life, physical development, mental satisfaction of quality of life, city of Mashhad

1- Introduction

1-1- Research problem

Recognizing the truth of cities is an issue that has always occupied the minds of the researchers in this field so that in the transition of time and at any particular time, a unique thought, theory, paradigm or model has claimed the ownership of this knowledge. However, only by the passage of time, the incompleteness of its claim and the mysterious nature of cities have been manifested, since a city is a complex, unstable, and constantly moving system which decorates itself with its special symbols at various stages. Of course, these manifestations are occasionally misleading covering the nature and truth of the city like a veil. It is necessary for the researchers in the urban field to know the true side of the veil has a deeper look at it. In this article, it has been attempted to study the condition of mental satisfaction of life in urban areas. These areas are classified through the objective indicators (education, occupation, and income) in terms of level of development: underserved, average, and areas. This classification apparently gives the impression that the inhabitants of these areas are equipped with different levels of mental satisfaction with the quality of their lives, i.e., areas with high development level have more satisfaction, whereas average areas have an average level of satisfaction. Likewise, deprived areas have less satisfaction. Is this the truth? The main concern of this paper deals with this question trying its best to offer an answer. For this purpose, the mental satisfaction of the quality of life in the districts no. 3, 6, and 9 in Mashhad was studied focusing the level of development in terms of three measures (education, occupation, and income). These districts were respectively among the deprived, average, and privileged areas.

1-2- Research purpose

The main aim of this study was to measure the mental satisfaction of the quality of life among the residents of the districts no. 3, 6, and 9 in Mashhad, each with a different level of development in terms of objective indices.

1-3-Hypothesis

This hypothesis is based on the assumption that it seems that following the level of development in terms of mental satisfaction from the quality of life, there is a regular and systematic difference between the districts no. 3, 6, and 9 in Mashhad, classified as the deprived, medium, and high areas in terms of level of physical development. 5 This mentality is the beginning of this article.

1-4-Research conceptual model

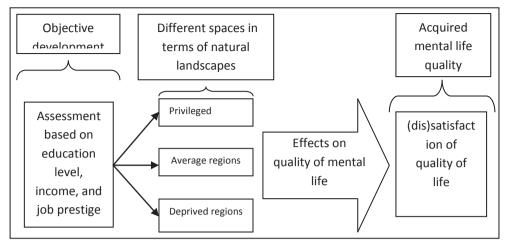
This study aims to assess the relationship and influence of the physical indices of development in urban areas with mental satisfaction of the quality of urban life. For this purpose, the three districts 3, 6, and 9 of Mashhad city, ranging from the deprived to the privileged areas in terms of level of development, were selected as samples. This classification, derived from the research results of Mr.Yousefi entitled "A Reflection on Social Division of Urban Space, Mashhad: Status Classification of Urban Areas", was used in this paper to assess the level of privilege of three general criteria (occupation, education and income) among the districts in terms of the (objective) status quo. Finally, the districts no. 3, 6, and 9 of Mashhad Municipality were classified among the deprived, the average and the privileged areas, respectively (Yousefi, 2009). Moreover, after evaluating people in terms of the objective condition of their lives, the mental measures were defined in the form of a questionnaire in three fundamental dimensions of the quality of life, that is, economic, environmental, and physical sustainability. The aim was to determine the effect of the various objective conditions, in terms of level of development in different spheres, on the mental perception of the residents regarding the quality of life, and to evaluate the condition of mental quality of life in these spaces.

1-5-Research method

The research method is descriptive - analytical. The target population consisted of the



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▲ Fig 1. rate of increase of housing price for 22 zones of Tehran, 2007-2012 (Iran statistical center, 2008-12)

residents of the districts no. 3, 6, and 9 in Mashhad who were regarded respectively among the deprived, the average, and the privileged in terms of the level of development. For evaluating the mental quality of life of the inhabitants of these regions, several questionnaires were also used. The questionnaires were designed so that the complexity of the concept of life quality in three dimensions was taken into consideration plus with the concepts of economic, environmental and physical sustainability to highlight the desired criteria. To analyze the wellbeing level in the questionnaire, the Likert 5- choice scale with responses ranging from 1 to 5 (very low, low, medium, high, and very high) was used. The number of the samples (n=385) was then calculated according to the Cochrane method of randomly clustering sampling based on the population of each district. ANOVA and Tukey HSD tests were also carried out to analyze the gathered data.

1-6- Studied indices

The main index in planning is the criterion of judgment or practice. Of course, without proper and pre- determined indices, such evaluation was not be possible; hence, research techniques and methods as well as the levels were determined based on the nature and the type of the indices. In this study, the codified indices were made self- made based on three

main criteria: economic, environmental, and physical.

2. Theoretical Foundations

2-1-quality of life (meaning, indices)

Defining the concept of quality of life, which is a multidimensional concept, needs adopting an interdisciplinary approach? By far, this term has been defined in different ways, yet, there is no generally accepted definition offered by the professionals to cover its whole domain. On the other hand, quality of life is severely affected by time and space, so its constituents vary in terms of the time period and the geographical location. Therefore, in spite of extensive investigations on a wide range of mental and objective indicators of the quality of life, there is no supported theory or measurement tool acceptable to all (Harirchi et al., 2009: 92-93). However, today, evaluating the quality of urban life has become a hot topic with an increasing importance and growing literature among the scientific circles. Several authors with different academic and scientific approaches have focused on this issue. It has led to the complexity of this phenomenon: Sociology, geography, economics, public health, transportation, and environmental engineering are just a few examples of references, which have shown their interest to this growing appeal topic among different scopes of science (Morais and Camanho, 2011: 398).



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F	Row	Index	Criterion
			Satisfaction with water costs
			Satisfaction with gas costs
	1	г.	Satisfaction with electricity cost
	1	Economic	Satisfaction with phone costs
			Satisfaction with mortgage or rent costs
			Satisfaction with general economic situation
			Satisfaction with home size
			Satisfaction with home type and shape
		11 .	Satisfaction with family density
		Housing	Satisfaction with per capita housing
			Satisfaction with the aesthetics
			Physical satisfaction
2	Dl		Satisfaction with access to leisure facilities
2	Physical		Satisfaction with walkway
			Satisfaction with traffic volume
		Infrastructure	Satisfaction with access to bus stations
		quality	Satisfaction with access to parking
			Satisfaction with access to shopping centers
			Transportation satisfaction
			Satisfaction of leisure spaces
			Environmental consent of construction noise
			Satisfaction with flying planes
			Satisfaction with vehicle transportation
3	Env	vironmental	Satisfaction with the removal methods of surface
			waters
			Satisfaction with dust
			Satisfaction with natural situation

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▲ Table 1. Criteria and indices of case study

In addition, during the last twenty years, a great number of researchers in the field of interaction between social sciences and environmental planning have proposed that the process of assessing the environmental quality should include both objective assessment of natural phenomena and mental evaluation of human reactions. In addition, the researchers have suggested that research on quality of life could be included among these properties (Lee, 2008: 1205). Due to complexity of human needs and diversity of such needs in cultures and socio - economic and political systems, quality of life is considered as a very broad concept (Shamaei et al., 2012: 295). Likewise, in urban environment, this concept has given off a different meaning, since there are numerous various thoughts leading to everyone's unique definition of life and social welfare. However, in a general definition, quality of life is regarded as enjoying a comfortable life and access to basic needs in an urban environment (Rahnamai et al., 2011: 225). Some researchers have defined quality of life in terms of life satisfaction (Dolincar and et al, 2012: 60). For example, Meeberg believes that quality of life is a feeling of overall satisfaction of life that can be evaluated based on personal psychological condition in life (Meeberg, 1993: 37).

Yet, some researchers have defined life satisfaction as a major component of quality of

life. For example, Gvnys and colleagues believed that personal values, living conditions, and life satisfaction are in interaction with each other to determine quality of life. They have suggested that the importance of each objective and mental aspect in evaluating life conditions is interpretable particularly just in the unique position of that life (Cummins and et al, 1994: 23). The main essence of urban life quality is supplying and satisfying the material and spiritual needs of people simultaneously (Kokabi, 2007: 76); Quality of life can also be defined as the relationship between individual perceptions and people' feelings with their experiences within the space in which they inhabit (Rezvani et al., 2010: 39). Also, the quality of life is personal happiness and satisfaction with life and the environment, including the needs, desires, aspirations, and lifestyle priorities and other tangible and intangible factors which in terms of consent feeling are generally determinant (Naution and Zahrah, 2012: 468).

According to the definitions presented in this context, the key words used in the definition of quality of life could be summed up this way: objective reality, mental perception, enjoyment, well-being, life satisfaction, and human needs (Rezvani et al., 2009: 93). A comprehensive definition of quality of life including all these factors is that quality of life is the outcome of interactions between socioeconomic, facilities (infrastructure) and environmental factors affecting the individual (Mostafa, 2012: 257). In general, offering a clear- cut definition of this concept is difficult because it is a mental experience, which depends on individual perceptions and feelings. There are more than 100 definitions and models of quality of life. However, in recent years, it has been agreed that quality of life is a multifaceted and interactive issue including many aspects of people's lives and their environment (Andereck & Nyaupane, 2011: 248). In general, the overall purpose of all studies on quality of life in urban areas is to achieve

results which result in improving the living conditions of urban dwellers. The combination of a healthy physical environment with socio- economic justice is a fundamental goal which all these studies seek for (Tazebay et al. 2010: 1360), since a safe city with high quality of life should provide suitable physical, social and economic conditions to empower its residents for implementing their roles in life and represent their potential talents (Mousavi and Bagheri Kashkouli, 2012: 96-97). In fact, the concept of quality of life has three main features:

First, it reflects the living conditions and personal perceptions versus the quality of life in the community level. Second, it is a multifaceted conception encompassing diverse fields in life, e.g., conditions of housing, education, employment, employment –life balance, access to public institutions and services and their interactions.

The last but not the least feature of quality of life is that this concept combines objective information of quality of life with mental images and attitudes to produce an overall picture of welbeing in the community (Keles, 2012: 24). Despite disagreements present in the definition of quality of life, there is a cognitive consensus among experts upon which most elites regard quality of life as the positive and multidimensionality conceptual aspects of life. Undoubtedly, quality of life is achievable under two headings: "objective measures" and "mental measures" (Hataminezhad et al., 2011: 224). Mental measures, which assess the satisfaction level of individuals and groups, are so-called "mental well-being." These indices are based on individual reports of perceptions about different aspects of life. In other words, they are complementing socio-economic and environmental variables and represent people's perceptions of the objective situation of their lives (Rezvani et al., 2010: 40). After gathering and analyzing these indices, it is possible to infer the values of different social classes. Objective measurements



فصلنامه مديريت شهرى (ويژه نامه لاتين) Urban Management No.43 Summer 2016 of quality of life are based on tangible variables which are routinely collected and disseminated by the official agencies. Economic accounts, health, education, urban pollution and other general information, are just among such information. The purpose of an objective method is to assess the overall situation of the state, such as macroeconomic measures, general state of society, and population-based indices (Baskha et al., 2010: 97). In fact, the objective aspect contributes to assess indices such as economic productivity, literacy rate, life expectancy, and other data, ignoring people's mental evaluation. On the other hand, the mental aspect includes quality of life which is based on survey and interview tools to obtain the assessment of the respondents' own life experiences in the form of a personal report of satisfaction, happiness, welfare and the like (Majedi and Lahsai Zade, 2006: 123). It would be noteworthy that quality of life should not to be confused with the concept of living standard, since the concept is generally based on income, whereas the standard measures of quality of life are not just income and employment; they include other indicators such as the built environment, physical and mental health, education, recreation, leisure and social affiliations (Abdel hadi, 2012: 14).

In general, interest in identification and evaluation of the quality of life is affected by different factors as follows:

- 1. A) Development: Due to the fact that development is not the only core in economic development, there are other involved issues such as social as well as human development.

 2. B) Environmental sustainability: Due to the fact that an environmentally development is sustainable whenever it is accompanied by social stability leading to improvement in quality of life.
- 3. C) Urban vitality: this issue is mentioned in several reports on evaluation and comparison of vitality between cities. This may indicate the effect of wide urbanization on quality of life, individual and collective.

4. D) Life: Due to the fact that life is not summed up only to the lifespan (number of years of living), the more important issue is the quality of life which makes considering the longevity and the quality of life all together (Mostafa, 2012: 256).

2-2-Quality of life and development

In recent decades and along with giving priority to the social goal of its development in the form of development programs, gradually attitudes have tended toward human and sociological development and quality of life in the literature and macro-policymakers and planners of the developed countries have found it profitable. In fact, quality of life indicates the general social, economic, and environmental characteristics of the areas, so it could be a powerful tool for monitoring social development planning. In other words, its ultimate goal of the study and subsequent application is that people have the ability to enjoy a high quality of life (Mousavi and Bagheri Kashkouli, 2012: 111). With this commitment, identifying, measuring, and improving the quality of life is one of the main goals of individuals, researchers, planners, and governments. Presence of various problems makes researches on quality of life necessary (Pahlevanzdeh et al., 2012: 103). Thus, a simple measure, which has a prominent figure in the texts on development, is the index of the quality of life (Smith, 2002: 166). In addition, during the past three decades, quality of life, as a substitute for material prosperity, has become the main social purpose for different countries (Baskha et al., 2010, 96). In fact, the quality of life has been introduced in the recent literature on sustainable development and social development planning, and modern economics and has gained a unique place so that the governments at national and local levels, as well as various institutions, have worked on its assessment and measurements (Faraji et al., 2010: 2). Hence, today, quality of life is regarded as one of the accepted theoretical frameworks



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in analyzing the living conditions of communities (Baskha et al., 2010: 96). Due to the growing process of industrialization and technological progress which consider the quantitative aspect of human life and neglects the qualitative aspects of life, the quality of life has taken the concern of several humanities scholars and thinkers in the western countries during the recent decades (Rabbani Khorasgani and Kianpour, 2007: 67). Popularity and application of the concept of quality of life is in fact an action against the one-dimensional economic development at the national level. In other words, it is a mere physical development at the urban scale, attempting to achieve quality standards in the field of planning. The quality of life takes into account the social, cultural, and psychological measures in the process of development. They are related to basic human needs and motives; in fact, planning for housing, labor and employment, and transportation would be complete just in case of considering mental, emotional and social needs of the citizens, i.e., items like need for security, comfort, aesthetic, social belonging, joy and fun (Zebardast and Bani Amerian, 2009: 6). One of the results of focusing on the concept of quality of life in the planning of development is considering the results and the qualitative effects on mental and spiritual development of human beings. This factor was mostly ignored in the past (Mahdizade, 2006: 47). Moreover, in the field of urban planning, quality of life is mentioned as one

of the main objectives for researchers so that after the 1970s, numerous schools have been founded in the field of urban planning, trying to improve the living conditions of the citizens. Of course, durig these years, each of these schools have tried trial and errors to realize their own strengths, weaknesses and efficiency. Meanwhile, the City Development Strategy (CDS) is one of the latest schools which has shaped late in the twentieth century (Hassan zade Dalir et al., 2011: 187). Due to this requirement, CDS was founded based on the following four principles of urban sustainability:

- 1. Livability;
- 2. Competitiveness;
- 3. Bankability;

4. Urban management and good governance

According to these principles, one of the criteria for urban livability is the concept of quality of life for urban citizens emphasizing that a city is livable if and only if its space could nurture dynamic citizens in material and spiritual aspects and correlate them with each other and nature (Ashrafi, 2009: 96).

2- Research population

In this study, three districts no. 3, 6, and 9 of Mashhad Municipality were analyzed as the case studies. According to the 2006 census, the region has 341,313 inhabitants and a density of 81 people per hectare and 88,875 households. District no. 6: This area covers an area of 1500 ha with a population of



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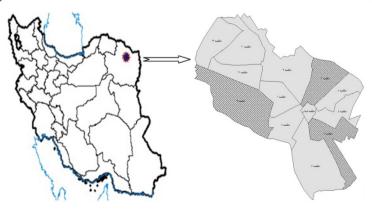


Fig 2. Studied areas location

Index	Measure	Model	sum of squares	Df	Mean of squares	F	Significance
	0 . 6	intra-group	13.743	2	6.871	4.709	0.010
	Satisfaction with water cost	Inter group	302.086	207	1.459		
	water cost	total	315.829	209			
	Carla Cardiana (d)	intra-group	24.295	2	12.148	8.832	0.000
	Satisfaction with gas cost	Inter group	284.700	207	1.375		
	gas cost	total	308.995	209			
	Catiofactionitle	intra-group	8.086	2	4.043	3.117	0.046
	Satisfaction with electricity cost Satisfaction with electricity cost Satisfaction with telephone cost	Inter group	268.700	207	1.297		
stal		total	276.614	209			
mic		intra-group	5.295	2	2.648	2.039	0.133
Ouc	Satisfaction with telephone cost	Inter group	268.729	207	1.298		
Есс	telephone cost	total	274.024	209			
	Satisfaction with	intra-group	5.067	2	2.533	1.602	0.204
	Satisfaction with mortgage and renting	Inter group	327.429	207	1.582		
		total	332.495	209			
	Satisfaction with	intra-group	14.295	2	7.148	4.890	0.008
	financial condi-	Inter group		207	1.462		
	tion	total		209		4.709	_

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▲ Table 2. Results of F test in terms of economic index

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Index	Measure	District	Comparing district	Mean	Standard Error	Significance
	Satisfaction with water cost	6	9	-0.641	0.204	0.008
Eco-	Satisfaction with gas cost	3	6	0.714	0.198	0.001
nomic	Satisfaction with elec- tricity cost	3	6	0.457	0.192	0.048
	Satisfaction with finan- cial condition	3	9	-0.628	0.204	0.007

▲ Table 3: Tukey Calculation, economic criteria6

about 273,000 people. Geographically, from the north, it is bordered with the south side of the 75- meter street and the Karmandan neighborhood- Sarakhs St., in the south with Shiroodi Blvd., and the eastern side of the 22nd Bahman Blvd. and Mostafa Khomeini complex, and from the West to 17th Shahrivar Blvd. and in the east to martyr Rajai complex (with a poulation of 39804 households). District no. 9: it has an area of over 3275 ha and a population of more than 329,562 people. In the north, it is bordered with Vakilabad Blvd.

and Malek Abad Garden, in the south neighboring mount Binalud, in the east with Jihad Sq. and Kohsangi, and in the west with Y-shaped Torqabe and Shandiz. Moreover, Ferdowsi University is located in this area. Figure 2 shows the location of these zones in the city of Mashhad.

4. Research findings

In this section, the ANOVA and Tukey Hsd tests were used to analyze the data. ANOVA test was used to determine the significance of indices between the study areas and Tukey

т 1	M	Nr. 1.1	sum of	DC	Mean of	Г	Signifi-
Index	Measure	Model	squares	Df	squares	F	cance
		intra-group	18.895	2	9.448	6.522	0.002
	Satisfaction with home size	Inter group	299.787	207	1.449		
Su Su	Home size	total	318.768	209			
isno	Satisfaction with	intra-group	19.229	2	9.614	6.974	0.001
(hc	home shape and	Inter group	285.368	207	1.379		
 	front	total	304.618	209			
nuc	Satisfaction with home shape and front Satisfaction with home household Satisfaction with home per capita Satisfaction with home per capita Satisfaction with natural land-scape Satisfaction with	intra-group	7.724	2	3.862	2.634	0.074
 VIÍT		Inter group	303.443	207	1.466		
ਗੂ ਦ	nome nousenoid	total	311.167	209			
:nti	Satisfaction with	intra-group	7.657	2	3.829	2.576	0.079
side	home per capita	Inter group	307.700	207	1.468		
h re	потпе рег сариа	total	315.257	209			
wit	Satisfaction with	intra-group	3.159	2	1.567	1.076	0.343
ion	natural land-	Inter group	303.271	207	1.456		
fact	scape	total	306.424	209			
atis	C .: C .: :.1	intra-group	11.467	2	5.733		
	Satisfaction with	Inter group	260.517	207	1.259		
	physical condi- tion	total	271.981	209			
	uon	total	18.859	2			

▲ Table 4. Results of F test in terms of satisfaction with the residential environment

Hsd test was used at a later stage to identify the differences of these indices among the regions.

4.1 Comparison of economic criteria in the study areas

For comparing, ANOVA test was used to identify the significance. Later, Tukey (Tukey HSD) test was used to find out the differences.

The results of analysis of variance (ANOVA) in Table (2) indicate that F observed in the alpha level of 0.05 in terms of the variables (satisfaction of mortgage, rent costs, and phones) in the level of three districts (three, six and nine) did not show any significant difference, but the rest of the variables were significant.

As seen in the above Table, in terms of satisfaction of water costs, there is a significant difference (a> 0.05) between the districts no. 6 and 9. Of course, this negative mean of

these differences is beneficial for district no.9. Likewise, in terms of satisfaction of gas and electricity costs, there is a significant difference between the districts no. 3 and 6, which is beneficial for the district no. 3. In addition, in terms of overall satisfaction with the economic situation, there is a significant difference between the districts no. 3 and 9 which is beneficial for the district no. 9.

4.2 Comparison of satisfaction with the residential environment in the study areas

In the section, satisfaction with residential areas in the districts is analyzed using the above tests (ANOVA) and (Tukey Hsd).

The results of analysis of variance (ANOVA) in Table (4) show that F observed in the alpha level of 0.05 indicates no significant difference between the variables (satisfaction of household density, residential per capita, and residential environmental perspective) in the three regions (three, six and nine), yet the oth-



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Index	Measure	Dis- trict	Comparing district	Mean	Standard Error	Significance
Eco- nomic	Satisfaction with home size	3	6	0.658	0.203	0.003
	Satisfaction with home shape	3	6	0.714	0.198	0.001
		6	9	-0.528	0.198	0.023
	Satisfaction with physical condition	6	9	-0.542	0.189	0.013

▲ Table 5. Tukey Calculation of satisfaction with residential environment6

Index	Measure	Model	sum of squares	Df	Mean of squares	F	Signifi- cance
		intra-group	5.267	2	2.633	1.730	0.180
	Satisfaction with						
	access to leisure	Inter group	315	207	1.522		
	facilities	total	320.267	209			
		intra-group	16.725	2	8.376	6.273	0.002
	Satisfaction with	Inter group	276.412	207	1.335		
	access to parking	total	293.167	209			
	access to parking	intra-group	9.038	2	6.290	2.642	0.074
	Satisfaction with traffic volume	Inter group	354.129	207	1.711		
satisfaction with the		total	363.167	209			
quality of	Satisfaction with access to bus stations	intra-group	12.581	2	6.290	4.156	0.017
infrastruc-		Inter group	313.343	207	1.514		
ture		total	325.924	209			
	Satisfaction with	intra-group	15.000	2	6.500	5.216	0.006
	access to parking	Inter group	297.614	207	1.438		
	lots	total	312.614	209			
	Satisfaction with access to shopping centers	intra-group	21.610	2	10.805	7.631	0.001
	Efficiency consent	Inter group	292.124	207			
	of public transpor-	total	314.424	209			
	tation systems	intra-group	29.914	2			0.048

▲ Table 5. Tukey Calculation of satisfaction with residential environment6Table (6): F test results in terms of satisfaction with the quality of infrastructure

er variables were significant.

The above table shows that in terms of satisfaction of the size and shape of the housing, there is a significant difference between the districts no. 3 and 6. Moreover, there is a significant relationship between the districts no. 6 and 9 in terms of satisfaction with the shape of the housings and the physical condition of the urban residential environment.

4.3 Comparison of satisfaction with the qual-

ity of infrastructure in studied regions

The results of analysis of variance (ANOVA) in Table (6) showed that F observed in the alpha level of 0.05 indicates no significant difference between the variables (satisfaction with access to leisure facilities and the volume of traffic) in the three regions (three, six and nine), yet other variables are significant.

After significance, Tukey test is used to determine the differences.

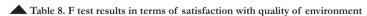


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In- dex	Measure	Dis- trict	Comparing district	Mean	Standard Error	Significance
4)	Satisfaction with ac-	3	6	0.624	0.195	0.003
ture	cess to walking paths	6	9	-0.542	0.195	0.016
rastruc	Satisfaction with access to bus stations	3	6	0.571	0.207	0.018
quality infrastructure	Satisfaction with access to parking lots	6	9	-0.642	0.202	0.005
jo	Satisfaction with access to shopping centers	6	9	-0.785	0.201	0.000
satisfaction	Efficiency consent of public transportation systems	6	9	-0.875	0.309	0.022

▲ Table 7. Tukey Calculation of satisfaction of quality infrastructure6

Index	Measure	Model	sum of squares	Df	Mean of squares	F	Signifi- cance
	0 .: 6 .: :.1	intra-group	4.067	2	2.033	1.377	0.255
	Satisfaction with construction noise	Inter group	305.557	207	1.476		
	Construction noise	total	609.624	209			
=	Satisfaction with	intra-group	15.800	2	7.900	2.781	0.064
nen	vehicle transporta-	Inter group	587.981	207	2.840		
ront	tion	total	603.757	209			
invi	vehicle transportation vehicle transportation Satisfaction of flying planes Satisfaction with the removal methods of surface waters Satisfaction with the removal methods of surface waters	intra-group	7.724	2	3.862	2.634	0.074
of e		Inter group	303.443	207	1.466		
ing planes	ing planes	total	311.167	209			
qual	Satisfaction with	intra-group	26.781	2	13.390	10.258	0.000
ith (the removal	Inter group	270.214	207	1.305		
methods of surface waters	total	296.995	209				
faci	Caria Carria manifest	intra-group	11.514	2	5.757	5.459	0.005
satis	Satisfaction with	Inter group	218.314	207	1.055		
% dust	dust	total	229.822	209			
	Catiofastica and	intra-group	12.695	2	6.348	5.480	0.005
Satisfaction with	natural situation	Inter group	239.786	207	1.158		
natural situation		total	252.481	209			



The above table shows that in the context of measures (satisfaction of walking space, access to bus stations, parking lots, shopping centers and public transportation system), there is a difference between the districts no. 6 and 9. In other words, due to this negative mean, satisfaction rate in all indices was in favor of the district no. 9. Moreover, in case of

the variables (walking space and access to bus station), there was a significant difference between the districts no. 3 and 6, so due to this positive mean, the satisfaction rates of these indices was beneficial for the district no. 3. 4.4 Comparison of satisfaction with the quality of the environment in the study areas Like the previous steps, to compare this vari-

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Index	Measure	District	Comparing district	Mean	Standard Error	Significance
satisfaction with quality	Satisfaction with the removal methods of surface waters	3	9	-0.771	0.193	0.000
of environ-	Satisfaction with dust	3	9	-0.571	0.173	0.003
ment	Satisfaction with natural situation	3	9	-0.585	0.181	0.004

▲ Table 9. Tukey Calculation of satisfaction with quality of environment6

able in the study areas, first, ANOVA test was used to determine the significance.

The results of the above table shows that F observed in the alpha level of 0.05 indicates no significant difference in the three regions (three, six and nine) in terms of the variables (satisfaction with the noise of construction, vehicle traffic and flying planes); yet, other variables were significant. In the next step, Tukey test was used in the significant variables to determine the difference.

The results of the above table show a significant difference just in terms of the significant measures in the districts no. 3 and 9. Of course, this difference was in favor of the district no. 9.

5- Test Hypothesis

Based on the gathered data and information, it can be concluded that there is little difference between the regions in the field of the intended measures so that in terms of economic field, the district no. 9 is much better than the other two regions (3 and 6) among which there is little difference. In terms of satisfaction of housing and quality of infrastructure, there is less satisfaction in the district no. 6 than the other two regions. Moreover, there was no difference between the districts no. 3 and 6. However, in terms of satisfaction of the environmental situation, there was a difference between the districts no. 3 and 9, whereas the district no. 6 had no significant difference with them. With this interpretation on the assumption, the present article, which deals with three districts no. 3, 6, and 9 in Mashhad, entitled as the deprived, the average, and the high areas in terms of the level of objective development, indicates that there is no tangible and regular difference between them in terms of mental satisfaction of quality of life. Therefore, it can be noted that the district no. 9, which has a higher position in terms of objective development and social status, has a better situation in terms of quality of mental life, too. Likewise, the district no. 3, which is among the poorest areas, has a in-between state of quality in terms of mental life and the district no. 6 with an average development and social status has a more unfavorable condition. Accordingly, it can be concluded that there is no regular and systematic relationship between improving the objective condition of development and increased mental satisfaction of the quality of life, so the above- mentioned hypothesis is confirmed.

6- Conclusion

Seeking truth is nothing but an attempt to reveal the hidden relationships and structures left under the veil of appearances. Trying to solve this problem has confused the researchers in field of urban planning since an urban system is not something whose physical layers can be realized, measured, and described through the human senses. It is in fact a complicated, unbalanced, unstable, simmering, and continuous transition and in this course, it is decorated with numerous presentations to hide its deceptive nature. While doing research, urban researchers are supposed to pass these surface layers trying to identify the real nature of the city. The present article also revealed the aspects of development (occupation, education and income) which provide a different



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level of development. Yet, they have no significant effect on the rates of mental satisfaction of the quality of life of their residents, since the key player in determining this appropriateness level is the man who seeks for the ideals according to their nature and constantly compare their current situation with the ideal. As Peter Hall states although the science - art urban planning is more than a century old, its positive effects on cities is less significant than the negative effects since most urban dwellers, for many reasons, are not much satisfied of urban life. For researchers, this is transformed the city into a maze which at any point in time, it requires a unique thought, template, school and paradigm for its proper recognition. Only it is over time that reveals the more complexity and incompleteness of the maze, ultimately, leaving behind nothing except the city and its inhabitants' problems.

References

- 1- Smith, David. M. (2002) Quality of life: human welfare and social justice. Translated by Dr. Hussein Hataminezhad and Hekmat Shahi Ardahili, Political & Economic Journal, No. 185-186, pp. 160-173.
- 2- Ashrafi, Yousef (2009) CDS new approach to urban planning using an analytical approach, Journal of Urban Management, No. 23, pp. 89-104.
- 3-Eftekhari, Rokneddin, Ahadu allah Fatahi, Mojtaha. Hajipour (2011) evaluation of spatial distribution of quality of life in rural areas: Case Study: Central area of Delfan city Journal of rural researches, No. 2, pp. 69-94.
- 4- Baskha, Mahdi., Lotfali Aqeli Kohne Shahri, Arshak Masaeli (2010) Rating Quality of life index in provinces of the country, Scientific-Research Social Welfare Quarterly, No. 37, pp. 95-112.
- 5- Pahlevanzdeh, Hamide., Mohammad Reza. Rezvani, Amin Mohammadi Ustad Kelaye (2012) Assessing Quality of Life in merged villages after Natural Disasters. Case study: the integrated set of Pishkamar, Golestan province, Journal of Housing and Rural Environment, No. 137, pp. 97-115. 6-Hataminezhad, Hossein., Ayoub Manouchehri Miandoah, Amin Faraji mullai, Samet Farhadi

(2011) Analysis of quality of life in integrated rural areas in cities, case study: Miandoah city, Journal of Geography and Regional Development, No. 16, pp. 1-18.

7-Harirchi, Amir Mahmud, Khalil Mirzai, Azam Jahromi (2009) Condition of quality of life for citizens of New Paradise city, Journal of Social Research, No. 4, pp. 89-110.

- 8- Hoseinzadeh Dalir, Karim, Mir Sattar al-Sadr Mousavi, Rahim Heidari Chyaneh, Seyede Khadije Rezatab (2011) An Introduction to new approach of city development strategies (CDS) in the process of urban planning with a focus on facing processing challenge for comprehensive schemes in Iran, Journal of geographic space, No. 36, pp. 173-209.
- 9- Rabbani Khorasgani, Ali., Masoud. Kianpour (2007)A recommended model to measure quality of life, case study: the city of Esfahan, journal of Faculty of Literature and Humanities University of Teacher Education, No. 58-59, pp. 67-108.
- 10- Rezvani, Mohammad Reza, Ali Akbar Matkan, Hossein . Mansourian, Mohammad Hossein atari (2009) Development and evaluation of quality of urban life indices Case study: Nourabad city, Lorestan province, Journal of Urban and regional studies and researches, No. 2, pp. 87-110.
- 11- Rezvani, Mohammad Reza, Hossein Mansourian, Fatima Ahmadi (2010) Promotion of countryside to city and its role in improving quality of life of local residents, Case study: Firozabad and Saheb cities in provinces of Lorestan and Kurdistan, respectively, Rural Researches Quarterly, Issue 1, pp. 33-66.
- 12- Rahnamai, Mohammad Taqi, Ayouh. Manouchehri Miandoah, Amin. Faraji mullai(2011) Analysis of quality of life in distressed areas of Miandoah city Journal of Urban Management, No. 28, pp.223- 240.
- 13- Zebardast, Esfandyar., Mahsa. Bani Amerian (2009) Analysis of relationship between objective and mental measures, the public service aspect of quality of urban life in New city of Hashtgerd, Journal of Architecture and Urban Planning, No. 3, pp.5-22. 14- Shamaei, Ali., Amin. Faraji mullai, Azade Azimi, Maryam Hatefi. (2012) analysis of inequality of measures of quality of life in city neighbor-



فصلنامه مديريت شهرى (ويژه نامه لاتين) Urban Management No.43 Summer 2016

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hoods, Journal of Geography, No. 33, pp. 253-280. 15- Faraji mullai, Amin. Azade. Azimi, Keramat allah ziari (2010) analysis of the quality of life in urban areas of Iran, journal of urban planning research, No. 2, pp. 1-16.

16- Kokabi, Afshin. (2007) criteria for evaluating quality of urban life in the urban centers, case study: Khoramabad downtown, journal of urban identity, No. 1, pp. 75-93.

17- Majedi, Seyed Masoud, Abdol ali Lahsai Zade (2006) Examining relationship between contextual variables, social capital and satisfaction with quality of life: Case Study: villages of Fars province, Journal of Rural Development, No. 4, pp. 91-135.

18- Mousavi, Mir Najaf, Ali Bagheri Kashkouli (2012) evaluation of spatial distribution of quality of life in neighborhoods of Sardasht city, journal of Research and urban planning, No. 9, pp. 95-116.

19- Mahdizade, Javad. (2006) Strategic Planning of recent experiences of urban development and its place in Iran, Tehran, Ministry of Housing and Urban Development press, 2nd Edition, p. 584.

20- Yousefi, Ali (2009), A Reflection on social division of urban space in Mashhad: status classification of urban areas, Journal of Social Sciences, Faculty of Literature and Humanities, Ferdowsi University, Mashhad, No. 2, pp. 61-91.

21-Abdel-Hadi, A. (2012) Culture, Quality of life, Globalization and Beyond, Social and Behavioral Sciences, 50, PP: 11-19.

22- Andereck, K. Nyaupane. G. (2011) Exploring the nature of tourism and quality of life perceptions among residents, journal of travel research, 50 (3). Pp: 248-260.

23- Cummins, R. A. McCabe, M. P. Romeo, Y. Gullone, E. (1994) the comprehensive Quality of Life scale (ComQol): Instrument development and psychometric evaluation on college staff and students. Educational and Psychological Measurement, 54, PP: 372–38.

24- Dolincar, S. Yanamandram, V. Cliff, K (2012) The contribution of vacations to quality of life, Annals of tourism research, Vol 39, No 1, pp: 59-83.
25- Keles, R (2012) The Quality of Life and the Environment, Procedia - Social and Behavioral Sciences, 35, PP: 23-32

26- Lee, Y (2008) mental quality of life measurement in Taipei, Procedia - Social and Behavioral Sciences, 43, PP: 1205-1215.

27- Meeberg, G. (1993) Quality of life: A concept analysis. Journal of Advanced Nursing, 18, PP: 32–38.

28- Morais, P. Camanho, A. (2011) Evaluation of performance of European cities with the aim to promote quality of life improvements, omega, 39.

29- Mostafa, A. (2012) Quality of life indicators in value urban areas: kasr elnile street in cairo, Procedia – social and behavioral sciences, 50, pp. 254-270.

30- Nasution, A. Zahrah, W. (2012) Public Open Space Privatization and Quality of Life, Case Study Merdeka Square Medan, Social and Behavioral Sciences, 36, PP: 466-475.

31- Tazebay, I. Somunch, M. Akpinar, N. (2010) a quantitative assessment for quality of life: the case study of metropolitan Ankara, turkry, African journal of agricultural research, vol.5 (12).pp: 1360-1372.

32- Towards a conceptual framework and demarcation of concepts; a literature study, Landscape and Urban Planning, 65, PP: 5-18



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