

Development and Validation of Family Efficiency Assessment Questionnaire Based on Islamic Point of View

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Abstract—Objective: The design and implementation of this study aimed to construct and validate family efficiency assessment questionnaire based on indexes and features derived from authoritative Islamic sources. Methodology: The indexes and specifications is extracted and introduced by means of a detailed descriptive and analytic method from the verses and traditions related to family. Based on the extracted features, basic form of family assessment questionnaire with the 120 statements was developed, and after confirmation of structure and content by the family experts, was conducted in a sample of 238 persons. After analyzing the initial implementation results, the questionnaire was revised and 40 questions had been removed. The revised questionnaire was implemented in a sample of 500 people randomly selected from the married employees of educational, research and cultural institutions community of Qom province. To prove the denotative validity of the questionnaire it was completed by 94 people who were selected by simple random sampling method from deficient families referred to 12 counseling center and family court in Qom province.

Findings: the factor analysis results of the tested answers indicate that family efficiency assessment questionnaire is based on 24.2% of the total variance containing three underlying "moral", "insight" and "legal" factors, and favored a desirable validity structure. The questions content validity has been estimated 0/86. The correlation of expert's assessment based on correlation calculation of coefficients obtained from matching Kendall consistent was 0/94. The T test results revealed a significant difference exists between the two sample groups of efficient and inefficient family. The questionnaire has a distinguishable validity and could separate these two from one another. The questionnaire reliability was calculated through the internal consistency method. The Cronbach's alpha of the whole questionnaire is 0/89, the insight index 0/85, the ethical index 0/89 and the juridical index is 0/76. As well as the validity of the questionnaire was obtained through split-half using the Spearman Brown method 0/834 and with Guttman method 0/833.

Conclusion: The evaluation of the efficient family assessment questionnaire showed that this questionnaire includes correlated fundamental factors to assess characteristics and the indicators of efficient family, and obtained the desirable validity and reliability, so could be applied in the fields of research and treatment.

Keywords— index, efficient family, authoritative Islamic sources, questionnaire, psychometric, reliability and validity.

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I. INTRODUCTION

Lord started creation of human with bonding women and men, and had settled Adam and Eve at the heart of family. And with this plan, all the children of Adam invited toward marriage, and drawn up the human perfection in the empathy and companionship of couples in family heart. The wise plan of God, has been manifested in the form of attraction and coordination between men and women, and has brought together all the prophets in the family heart along with the human history. And so the human race continued its living.

The family as the oldest system in human societies has most appropriate structure to provide physical and psychological needs of members. It was the best breeding ground for an efficient generation who believes in religious and social values and paves the way for supply economic, legal and security and peace needs of mankind. In recent years, because of cultural, social, industrial, scientific and value changes, the family system has been facing with numerous problems. The precariousness of many traditions, morals, customs, traditions and beliefs which works as a reinforcing agent in the strength and balance of family, has seriously threatened the efficiency of the family.

Our religious sources namely Qur'an and the Sunnah, bursting with emotional, cognitive and behavioral recommendations for supplying an efficient family. Collection of Islamic teachings about the family, leads us into a system of effective measures which answers the material and spiritual needs of the family. Imam Sadiq (PBUH) referring to some of the goals and indicators of desirable and efficient family states: It is necessary for a person who is going to marry and found a family, to put under the refuge of God, pray two rak'ahs, praising and worshipping God and saying this prayer: "O, Lord, I have decided to get married and found a family. Award me a wife that in terms of flesh and ethics (moral efficacy) is the best, and been chaste and immaculate, keep her dignity and my property (for legal efficiency). In terms of sustenance considered more provided and her blessing is extent. O God ordained her to give me a pure and clean child, a child who has a worthy posterior for me during life and after death".

In a general classification, the collection of Islamic teachings is divided into three major parts. Part one consists of general insights and attitudes towards the world, human, and the whole universe. The second part contains the characteristics and virtues which a Muslim on the way toward

pursuit of perfection has to obey their instructions and avoid their opposites. This part is known as the Islamic teachings and moral instructions. The third part is devoted to the religious proinsights. This section includes instructions related to external and actual human activities, ranging from the material, spiritual, worldly, eternal, personal and social activities. The third part is working as a guarantee for the observance of people's rights.

The insight Index of an efficient family refers to religious insights which are essential for the growth and efficiency of the family. The faith and religious beliefs as a basic and main approach, directly and indirectly affect man's personality dimensions. These dimensions include among the other: the aim of life; social, cultural and economic aspects of living and individual perspectives about the job, marriage, education; and even more detailed aspects like entertainment and lifestyle preferences in living. When parents enjoy consistent religious beliefs, it has great influence on strengthening family ties. And lacking of that belief in a family causes numerous problems which the Holy Qur'an remembers as a tight and difficult life. A family which is not peaceful, because the lack of religious beliefs and would not enjoy the life and could not be efficient.

One of the main goals of marriage is the couple's moral perfection and educating children who boasts Islamic morality. Child educating sponsors one of the important human psychic need that is belonging and conjunction to children. Education referred to as continuous and regular stream or process that aims to guide the moral, intellectual, physical and psychological growth of a person. That is In general, all-round development of education seekers personality to gain and understanding of human knowledge and norms accepted by society and prosper their talents. According to such a definition of education, training and growth of the personal and social aspects of all family members is considered a family efficiency factor. And to achieve such a family, it should be tried to grow many different aspects. A considerable part of the manifestation of talents and unfolding capabilities, accept responsibility and human excellence would emerged as a result of social life, family ties and social life experiences. Therefore, any deprivation of proper and logical relationships with other people and staying away from social dynamic life provides a context for some abnormalities in person.

Earliest communication buds emerge in the privacy of the family between individuals and develops in the other sections of society. A pleasant and peaceful relation of family members with each other, relatives, community members and most of all with God provides the best context for growth and thriving and family efficiency. In this context, Islam also has some directives that invite the family members to entente with each other. Efforts to establish compassionate and affectionate relationship between parents and children as well as children and parents is another teaching of Islam. Islam has expressed purposes and effects for the marriage and for the realization this purposes, it has been specified common and specific duties and responsibilities for all the family members. On the other hand with observance of duties and responsibilities, it considered some rights for them. Respecting these rights is one of the indicators of efficient family and their violation will

shake the structure of family. Observance of inside the family boundaries such as confidentiality and outside the family boundaries, such as compliance with religious costumes and male-female relationships and managing the home is among the legal indices of the family. Economic issues which affects the efficiency of the family and expressed as right of family members, considered in the legal index of efficient family.

Thus, the efficient family "is a family that its members adhere to religious beliefs and observe the rights and Islamic morals which provide discovering and developing their abilities in the cognitive, emotional and behavioral field."

II. THE HISTORY OF ASSESSMENT AND MEASURING OF THE FAMILY

By entering systems theory into the family field and designing the family systems theory by Nathan Ackerman a favorable field provided for the promotion of systematic approach to the family and research based theoretical concepts of system thinking. And the structure, efficiency and interactional patterns of family were considered. Given the complexity of the system assessment concepts, some researchers insisted on the construction and development of tools for measuring the performance of the family. For example, Toliatus, Perl moutler and Straus Published a book in 1990 in which around 1,000 tools have been introduced and already have some of these tools used to evaluate the performance of the family and marriage.

In recent years, the construction of various aspects of the family assessment tests, based on different models and from different directions were continued. Also in the Islamic Republic of Iran, especially after the victory of Islamic Revolution and the rapid growth of knowledge in the humanities fields, studies been conducted in the family field. Psychologists who work in the field of family and family therapy, attempt from an angle to measure and evaluate the family, which resulted in the formation of various patterns of evaluation and assessment of performance, efficacy and effectiveness of family. The most famous of these models include: making model, Mc Master, multi-coordinates, and Beavers. Studies carried out on family and building its assessment test was further discussed into the assessment of marital satisfaction and family satisfaction. In foreign researches, there is less interest to the religious aspects of the family and often it is unnoticed. Most tests which has been made by Iranian researchers to measure the aspects of family, also was not based on religious sources. Many of the tests applied at the family researches, were the same tests that have been made by researchers outside of Iran. Sometimes test after normalization In Iranian Statistical Society, has been applied. In just one case Jafar Jadiri (1387) has developed a test of marital satisfaction based on Islamic sources.

The results of this study are introduced in the aftermath model which its index and questionnaire would built according to the teachings of Islam for Assessment of family efficacy. In the present study indices of insight, ethical and efficient family law and its features has been analyzed by using the authentic Islamic sources (Quran and Hadith) and descriptive - analytic, collective, classification method. To collect information about

the indicators and features, after checking the 323 keywords, 600 verses and 13400 traditions related to family (wife, husband, children, relatives, etc.) that has been extracted from 130 sources, about 50 Keywords and 2000 verses and narrative from verses and traditions associated with research topics was selected. And based on the keywords classified into three categories of insight, moral and legal and were used for feature extraction, description and analyzation.

After collecting theoretical data for building a Family Performance Measurement Questionnaire based on valid Islamic sources, we used scaling method (Surveying). The statistical population of the research were married staff with children of Qom province in educational, research and cultural institutions and centers. We needed two sample groups of ordinary and inefficient families to do research. Both groups were selected by simple random sampling method. The sample group of the normal family (efficient) was selected among the married staff of Qom province's educational, research and cultural institutions and centers. And to compare efficient and inefficient families by referring to the family court and a number of consulting centers of the Qom province, from the couples who visited these centers and were not satisfied with their family situation and have had problems, differences and family disagreements.

III. TOOL

The following steps were taken to prepare a Family efficacy Questionnaire (S.FEQI)

The first stage: the preparation of questions in each category; based on the information obtained from the verses of the Holy Qur'an and the traditions, for the insight index 39, ethical 43, and legal 38, statements were compiled. A total of 120 statements were obtained. Finally, a questionnaire of 120 questions was prepared, by intermingle the questions and redesign and randomizing them.

Second stage: content validity evaluation; to examine the content validity of the questionnaire, in front of each documented question of the questionnaire, there is Five options: very relevant that ranging from 81to 100 score, related ranging from 61 -80 scores, somewhat related ranging from 41 -60 scores, slightly related ranging from 21 -40score and not related of 0 -20score. The opinion of experts on the structure and adaptation of the content of each question with the family religious teachings from the Islamic point of view was evaluated by 12 Islamic family specialists who were from university professors and seminary lecturers. The specialists, while evaluating the structure and content of each question and adapting it with the provided documentary (verses and traditions), had also suggested some modifications to some of the questions.

Stage Three: Final revising of the Questionnaire; In order to assess the internal reliability, the questionnaire was accomplished in a sample of 260 families (130 couples). The collected Data from 238 questionnaires of sample members for

calculating Cronbach's alpha was analyzed by using SPSS software. Finally, 56 questions with the highest reliability based on Cronbach's alpha score of 0.86 formed the first category the accepted questions. 24 questions with alpha 0.89 were the next rank. The remaining questions were deleted due to their low alpha score. And a total of 80 questions with an alpha score of 0.92 remained as the final questionnaire.

Stage Four: After the final implementation of the questionnaire, data collected from 500 questionnaires of sample members were analyzed for surveying the factors and selection of questions with correlation and optimal load factor.

IV. FINDINGS

A. *The Results of Factor Analysis*

After implementing the "Efficient Family Measurement Questionnaire" and scaling it, in order to verifying this questionnaire in case of consisting factors, Factor analysis method using "main components" with "Varimax rotation" was used. The "sampling adequacy index" was 0.89 and the adequacy result of the sample showed that the sample size was appropriate for the analysis of the factors. Also, the results of "Bartlett Spherical Test" with a freedom degree of 2847 and a Kai-square of $2 \chi = 21387/68$ at the level of $p < 0.001$ has some meaning which indicates a correlation between the components of the questionnaire. In order to determine the number of factors, the criterion of special values greater than one and the Scree plot was used. The results indicated that the Family Performance Measurement Questionnaire consists of three factors and in total %24.02 of the total variance is explained. Questions with factor loadings of less than 30.0 were deleted. As a result, 41 questions were removed and 79 questions remained. Again, the factor analysis was performed on the remaining 79 questions, the results of which are presented in Table 1. As it could be seen in this table, 35 questions on the first factor have a factor loading of over 30.0. The content of these questions, which is based on religious sources, measures the characteristics, qualities and virtues of family members which, affects the family's desirability and efficiency. This factor correlates with the ethical index of the Intended efficient family by the religious sources, and therefore named as the ethical factor. The first factor explains 15.08% of the total variance. 24 questions on the second factor have a loading factor of over 0.30%. These questions assess observance and non-observance of the material and moral rights affecting the desirable and efficient functioning of the family by its members, so called the legal factor. The second factor explains 34.5% of the total variance. The 20 other questions, which deal with a loading factor of more than 30.0 and account for 60.3 of the total variance, are on the third factor. The questions of this factor measure the religious insights and beliefs that affect family relationships and behaviors, making it an effective family. This agent can be called the insight factor.

TABLE I
STATEMENTS AND LOADING FACTORS OF QUESTIONNAIRE FINAL FACTORS

first factor		second factor		Third factor	
question	loading factor	question	loading factor	question	loading factor
2	0.36	1	0.52	16	0.36
4	0.59	3	0.36	20	0.42
6	0.31	5	0.33	29	0.38
8	0.32	7	0.44	34	0.34
11	0.59	9	0.44	36	0.60
13	0.33	10	0.44	37	0.43
14	0.40	12	0.53	40	0.41
15	0.42	17	0.48	41	0.61
18	0.64	19	0.46	43	0.45
23	0.48	21	0.45	44	0.45
24	0.58	22	0.52	48	0.51
25	0.38	26	0.42	50	0.59
27	0.44	45	0.36	51	0.60
28	0.61	47	0.34	53	0.32
30	0.33	52	0.61	56	0.44
31	0.35	54	0.50	67	0.45
32	0.70	57	0.33	69	0.35
33	0.31	58	0.34	71	0.35
35	0.32	60	0.36	75	0.45
38	0.32	61	0.47	76	0.35
39	0.53	63	0.35		
42	0.62	74	0.34		
46	0.61	77	0.36		
49	0.41	79	0.35		
55	0.57				
59	0.36				
62	0.48				
64	0.40				
65	0.52				
66	0.33				
68	0.34				
70	0.62				
72	0.34				
73	0.46				
78	0.34				
Special value	12.07	Special value	4.27	Special value	2.88
Explained variance	15.08	Explained variance	5.34	Explained variance	3.60

B. Validity of The Questionnaire

In order to obtain validity of the questionnaire, the internal correlation method (Cronbach alpha) and the two-half method have been used.

TABLE II
INTERNAL CORRELATION COEFFICIENT

Index	Cronbach alpha	No. of questions
ethic	0.89	35
insight	0.85	24
legal	0.76	20
The whole questionnaire	0.89	79

Moreover, as seen in Table 1, the coefficient of internal consistency of the questions for the whole questionnaire is 0.89, for the insight index 0.85, for the ethical index 0.89 and for rights is 0.76. These values indicate that the Family Efficiency Measurement Questionnaire and its subscales have acceptable internal consistency. The semi-structured method

has also been used to assess the credibility of the questionnaire. As shown in Table 3, Spearman Brown and Gutman coefficients are 0.83.

TABLE III
THE INTERNAL CONSISTENCY COEFFICIENT OF THE TWO HALVES OF THE QUESTIONNAIRE

Spearman coefficients	in the case of equal number of questions	0.83
	in the case of no equal number of questions	0.83
Gutmann's semi-structured coefficient		0.83

C. Validity of The Questionnaire

Content, separation and structure validity method have been used to measure the validity of the questionnaire. To calculate content validity, a questionnaire with question documentation and evaluation method was sent to twelve specialists in Islam and family field from university professors and seminary lecturers. They were asked to express their opinion on the extent to which the efficiency of the family was measured by

the Likert scale.

TABLE IV
AVERAGE GRADES OF SPECIALISTS TO EVALUATE THE CONTENT OF THE TEST

Experts Indexes	1st	2nd	3th	4th	5th	6th	7th	8th	9th	10th	11th	12th	Average of Averages
belief	89	88	89	92	68	87	85	85	78	93	85	72	86
ethic	79	85	91	79	39	98	62	85	80	78	85	84	87
legal	97	98	85	69	86	39	85	38	66	38	82	73	83
Efficiency questionnaire	93	86	89	59	88	93	76	84	78	98	84	76	86

In Table 4, the average of the total scores of experts is given to questions related to each of the indicators as well as to the entire questionnaire. The results presented in the above table indicate that the average scores given by experts to questions of insight, ethics and law are 86, 87, and 83, respectively. The average total score of the test is 86.

TABLE V
KENDALL CORRELATION COEFFICIENTS OF EXPERTS SCORES FOR ASSESSING THE CONTENT OF THE TEST

Expert	1	2	3	4	5	6	7	8	9	10	11	12
1	1											
2	0.94	1										
3	0.87	0.75	1									
4	0.80	0.77	0.80	1								
5	0.81	0.83	0.81	0.91	1							
6	0.79	0.78	0.79	0.77	0.74	1						
7	0.67	0.69	0.67	0.76	0.84	0.79	1					
8	0.56	0.81	0.56	0.87	0.85	0.67	0.83	1				
9	0.80	0.77	0.80	0.89	0.78	0.56	0.80	0.88	1			
10	0.78	0.79	0.76	0.77	0.77	0.80	0.73	0.89	0.90	1		
11	0.73	0.86	0.80	0.81	0.91	0.76	0.79	0.84	0.78	0.82	1	
12	0.84	0.78	0.78	0.79	0.94	0.80	0.81	0.83	0.81	0.89	0.73	1

According to results of Kendall's correlation coefficient calculation, the results are meaningful if expert opinion is less than 0.05. Observing the average scores of the experts to the questions and the level of correlation of their opinions indicates the desirable content validity and standard of questionnaire.

TABLE VI
COMPARISON OF THE EFFICIENCY LEVEL IN STATISTICAL SAMPLES

Indexes	samples	Average	standard deviation	Difference of average	Benchmark error	Freedom rating	t-degree	Meaningfulness
insight	Normal	64.03	5	10.3	0.92	392	11.15	0.001
	inefficient	53.70	6.64					
ethic	Normal	104.51	6.59	11.15	1.19	392	9.36	0.001
	inefficient	93.35	7.04910					
legal	Normal	7.62	5.58	12.33	0.98	392	12.56	0.001
	inefficient	60.29	3.99					
Whole questionnaire	Normal	241.17	14.88	33.81	2.70	392	12.51	0.001
	inefficient	207.35	16.88					

Independent t-test was used to prove the separation validity of the questionnaire and to compare the scores of the two groups of inefficient and normal samples. The t-test results for

comparison of the scores shown in Table 6 indicate that there is a significant difference between the two groups. These results show that the questionnaire has been able to reveal the difference between inefficient families and normal ones and separate each one from the other. In addition to the total score

difference between the samples, the t-test results show significant difference between the insights, moral and legal indexes. The presented values indicate the validity of the questionnaire. The results of "Bartlett Spherical Test" with a freedom degree of 2847 and a Kai-square of $2\chi = 21387/68$ at the level of $p < 0.001$ has some meaning which indicates a correlation between the components of the questionnaire, and indicates the validity of the questionnaire structure

V. DISCUSSION AND CONCLUSION

The purpose of this study was to create a family-based efficiency test based on the indexes and attributes extracted from authentic Islamic sources and also to prove its psychometric properties. In this way, the results of study can be explained as follows:

1. The results of the description and analysis of about 2000 verses and traditions related to family field showed that there are three main indexes for measuring family efficiency. The results of the exploratory factor analysis of the tryouts' responses (table 1) also indicated that the Family Efficacy Measurement Questionnaire was based on 24.22% of the total variance with three underlying factors. These indexes (factors) are;
 - Insight indicator
 - Moral index
 - Legal Indicator
2. After assessing the validity and reliability of questions that were designed based on the specifications of the family-based questionnaire for measuring family efficacy, It was found that 79 features had been used which having a load of more than 0.30 on three factors.
3. The results of the study showed that the questionnaire had an internal intrinsic reliability and stability. The Cronbach's alpha of the whole questionnaire is 0.89, the insight index is 0.85, the ethical index is 0.89 and the legal 0.67. The reliability of the questionnaire was also obtained by dividing it by Spearman Brown and Gutmans' methods of 0.83.
4. The results of the study confirmed the content, separation and structure validity of the questionnaire. The results of the evaluation of the seminary and academic experts of the Islam and family discussions (table 4 and 5) showed that the questionnaire has content validity. The average of experts' scores in the questionnaire was obtained 86%. Also, the correlation coefficient between expert's opinion was meaningful and less than 0.05. The t-test results (presented in Table 4) showed that the questionnaire had separation validity, and could reveal the difference between inefficient and efficient families. Also, the difference between insight, ethical and legal indexes was meaningful in two samples. The results of the factor analysis (presented in Table 1) showed that the Family Efficacy Measurement Questionnaire has structural validity.

Therefore, based on the findings of the study, the indicators and characteristics of the efficient family could be introduced from the Islamic point of view; and presented in a questionnaire that has scientific knowledge of a psychological

instrument which measures family efficiency.

5. Insights, ethics, and rights are considered together and at the same time in this study and construction of the questionnaire.
6. The rights of all family members are considered.
7. The main axis to achieve efficiency has been the satisfaction of God.
8. We have focused on material and spiritual works.
9. Surveying in studies and researches on the introduction of desirable family characteristics and specifications and tools designed to measure it showed that, indicators and instruments of assessment were not designed and constructed based on religious teachings. While Islamic societies need the measures and indexes of family efficiency based on the teachings of Islam as well as appropriate and in accordance measuring tools with divine orders which presented by the Prophet Muhammad (PBUH) and other Imams(as) in the form of verses of the Qur'an and narratives. Guiding the family based on these indicators leads to the progress and advancement of the family members and achieving of a desirable, balanced, efficient and transcendental family.

Having this questionnaire helps counselors, therapists and family therapists to have a more accurate and proper assessment of the status of the family in Islamic societies and in dealing with Muslim clients. Also, researchers in their field research have a proportional tool which fits the culture of their statistical community.

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