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Gender and Field of Study and Performance on an English Language Proficiency Test

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Abstract—This study reports the performance of five thousand one hundred and eighty three undergraduate and graduate students on a language proficiency test called Ministry of Science, Research and Technology (MSRT). It consists of one hundred traditional multiple choice items selected from the disclosed Test of English as a Foreign Language and measures the listening and reading comprehension abilities as well as structural knowledge. It was taken by students majoring in five branches of knowledge, i.e., agriculture, basic sciences, engineering, humanities and social sciences, and medical sciences, in Iran. The One-Way ANOVA analysis of scores showed that female test takers scored significantly higher than males not only on the MSRT but also on its structure, listening and reading comprehension subtests. The same analysis also showed that engineering test takers scored significantly higher than agriculture, basic sciences and humanities and social sciences on the listening comprehension subtest and MSRT. The scores of engineering and medical science test takers on the reading comprehension subtest were, however, significantly higher than humanities and social science test takers only. The results are discussed and suggestions are made for future research.

Index Terms—foreign language, proficiency, listening, reading, structure

I. INTRODUCTION

Language proficiency is treated as an ability which is measured “to determine whether this ... ability corresponds to specific language requirement” (Valette, 1977, p. 6). The Test of English as a Foreign Language (TOEFL) is, for example, designed by Educational Testing Service (ETS) in America as a traditional multiple choice item English language proficiency test. The scores obtained on the TOEFL “help the admissions staff determine if your skills are adequate for enrollment into the program of study you have selected” (ETS, 1995, p. 6).

The paper-and-pencil version of TOEFL consists of three separate subtests: 1) listening comprehension, 2) structure and written expression and 3) reading comprehension. The third subtest contains “a variety of short passages on academic subjects. Each passage is followed by question about the meaning of the passage” (ETS, 1991, p. 7). This subtest along with the other subtests of the TOEFL are designed by language testing specialists on the assumption that they provide a *fair* measure of adult English language proficiency for test takers whose first and/or second languages are not English.

Fairness of an ability measure such as the TOEFL is defined as providing test takers with scores which are *not* affected by extraneous variables such as cognitive styles, gender, field of study and educational level. Khodadady, Fatemi and Etminan (2012), for example, employed two tests to explore the relationship between the test takers’ cognitive styles and their English language proficiency (ELP). They utilized the Group Embedded Figures Test (GEFT) designed by Witkin, Oltman, Raskin, and Karp (1971) and the schema-based cloze multiple choice item test (S-Test) designed by Gholami (2006) as measures of cognitive styles and ELP, respectively.

As language proficiency measures, S-Tests differ from the TOEFL in terms of their constituting passages and the nature of items developed on *the words comprising the passages*, i.e., schemata. S-Tests are designed on *authentic* passages which are written to be read by literate English speakers. In addition to authenticity, the alternatives comprising the items have syntactic, semantic and discursal relationships not only with the keyed response but also with the schemata comprising the whole passage (e.g., Khodadady & Elahi, 2011).

Khodadady, Fatemi and Etminan (2012) administered the S-Test to 253 undergraduate and graduate students of English and used their scores to divide them into low, middle, and high proficiency groups. The performance of these three groups on the GEFT revealed that “neither low nor high proficiency groups employed their cognitive styles because their performance on the two tests” showed no significant relationship. The middle proficiency group, however, utilized both field-dependent and field-independent styles “to compensate for their partially acquired language proficiency” (p. 806).

To the best knowledge of the present researchers, no independent study has, nonetheless, been conducted to explore the fairness of the TOEFL in a foreign language context such as Iran. To fill the gap, the present study attempts to find

out whether the disclosed TOEFL administered by the Ministry of Science, Research, and Technology (MSRT) in Iran and named the MSRT produces significantly different scores for test takers having different gender and field of study. Such an attempt is educationally important because a large number of applicants take the MSRT every year and many decisions are made on the basis of their performance.

According to the Iran MSRT (2011a, 2011b, 2011c), the test is held in thirteen cities, i.e., Ahwaz, Babolsar, Esfahan, Hamedan, Kermanshah, Mashhad, Qom, Rasht, Shiraz, Tabriz, Tehran, Urmia, and Zahedan, monthly. In addition to being a requirement for getting admitted to graduate studies in Iranian universities, governmental scholarships are awarded only to those whose performances are above the cutoff score on the MSRT, i.e., 50 out of 100, for agriculture, engineering, and basic sciences, and 55 out of 100 for humanities and social sciences. Moslemy Naeeny (2011) announced that 13943, 17526, and 14757 applicants took the MSRT in the years 2009, 2010, and 2011, respectively.

II. METHODOLOGY

A. Participants

The scores and some bio data of five thousand one hundred and eighty three applicants who took the MSRT on September 8th and 18th, 2011 were given to the present researchers by an authority in the Iran MSRT. Since 703 test takers had scored lower than 11 out of 100 on the test, they were excluded from all statistical analyses. The remaining 4480 test takers had studied various fields as diverse as Arabic language, arts, law and physiology. These fields were classified into five major branches as shown in Table 1. As can be seen, the largest number of test takers had studied medical sciences (n = 1349, 30.1%).

TABLE 1.
THE MAJOR BRANCHES OF KNOWLEDGE STUDIED BY TEST TAKERS

Branches	Frequency	Percent	Valid Percent	Cumulative Percent
No specified	15	.3	.3	.3
Agriculture	309	6.9	6.9	7.2
Basic Sciences	1296	28.9	28.9	36.2
Engineering	713	15.9	15.9	52.1
Humanities and Social Sciences	798	17.8	17.8	69.9
Medical Sciences	1349	30.1	30.1	100.0
Total	4480	100.0	100.0	

Out of 4480 test takers, 1942 (43.4%) and 2538 (56.6%) were female and male in gender, respectively. While 912 (20.4%) did not specify what academic degree they held at the time of examination, 170 (3.8%), 2992 (66.8%) and 406 (9.1%) had obtained their BA/BSc, MA /MD /MSc and PhD degrees from Iranian universities, respectively. No data were provided as regards the participants' age; however, they were all speaking Persian as their mother/second language.

B. Instrument

Based on the disclosed paper-and-pencil TOEFL items, a language proficiency test called MSRT is compiled in Iran. It consists of three subtests, i.e., listening comprehension, structure and written expressions and reading comprehension.

1. Listening Comprehension

The listening comprehension subtest of the MSRT consists of thirty traditional multiple choice items developed on short conversations between two speakers. Upon hearing the conversation, the test takers must read the four choices offered for the question raised, choose the correct alternative and mark it on the answer sheet as the example below illustrates. (The time allotted is 15 minutes.)

	On the recording you hear:	
	(Woman): I don't like this painting very much.	
Example:	(Man): Neither do I.	
	(Narrator): What does the man mean?	
Alternatives	A He doesn't like the painting either	C He doesn't know how to paint
	B He doesn't have any paintings.	D He doesn't know what to do.

2. Structure and Written Expressions

The structure and written expressions subtest of the MSRT consists of thirty multiple choice items. The items dealing with the structure present a sentence in which a word or phrase is deleted and offered along with three alternatives to measure test takers structural knowledge as shown in sample item below. (The time allotted is 20 minutes.)

Example:	... no conclusive evidence exists, many experts believe that the wheel was invented only once and then diffused to the rest of the world.	
Alternatives	A Even	C But
	B Although	D So

TABLE 2.
DESCRIPTIVE STATISTICS AND RELIABILITY ESTIMATE OF THE MSRT AND ITS SUBTESTS (N = 4480)

Tests	# of items	Mean	Variance	SD	Skewness	Kurtosis	KR-21
Listening	30	9.56	15.370	3.920	1.212	2.081	.60
Grammar	30	13.71	17.641	4.200	.266	-.020	.54
Reading	40	17.33	22.053	4.696	.222	.106	.58
MSRT	100	40.60	104.761	10.235	.773	1.104	.78

Table 3 presents the descriptive statistics related to female and male test takers' performance on the MSRT and its subtests. As can be seen, the female test takers have outperformed their male counterparts. The One-Way ANOVA analysis showed that the mean scores of female test takers not only on the listening comprehension ($F = 16.851$, $df = 1$, $p < .001$), structure ($F = 52.365$, $df = 1$, $p < .001$), and reading comprehension ($F = 12.143$, $df = 1$, $p < .001$) subtests but also on the MSRT ($F = 37.654$, $df = 1$, $p < .001$) are significantly higher than those of male test takers. These results thus *disconfirm* the first hypothesis that *there will be no significant difference in the mean scores obtained by female and male participants on the MSRT and its three subtests*.

TABLE 3.
DESCRIPTIVE STATISTICS OF FEMALE AND MALE TEST TAKERS

Tests and subtests	Gender	N	Mean	SD	Std. Error
Listening Comprehension	Female	1942	9.84	4.059	.092
	Male	2538	9.36	3.798	.075
Structure	Female	1942	14.23	4.128	.094
	Male	2538	13.31	4.213	.084
Reading Comprehension	Female	1942	17.61	4.594	.104
	Male	2538	17.11	4.763	.095
MSRT	Female	1942	41.67	10.311	.234
	Male	2538	39.78	10.103	.201

Table 4 presents the descriptive statistics of scores obtained on the listening comprehension subtest by the test takers majoring in five major branches of knowledge. The One-Way ANOVA analysis showed that the mean scores of five branches differ significantly from each other ($F = 9.038$, $df = 4$, $p < .001$). Scheffe post hoc test, however, revealed that only two majors outperformed others significantly.

TABLE 4.
DESCRIPTIVE STATISTICS OF SCORES ON LISTENING COMPREHENSION SUBTEST

Five Branches of Knowledge	N	Mean	SD	Std. Error
Agriculture	309	9.21	4.002	.228
Basic Sciences	1296	9.38	3.827	.106
Engineering	713	10.23	3.989	.149
Humanities and Social Sciences	798	9.17	3.881	.137
Medical Sciences	1349	9.73	3.943	.107
Total	4465	9.57	3.924	.059

Table 5 presents the Scheffe post hoc test of the mean scores obtained by test takers majoring in five branches on the listening comprehension subtest of the MSRT. (The table is simplified and shortened to save space.) As can be seen, only the engineering test takers have scored significantly higher than those majoring in agriculture, basic sciences and humanities and social sciences. The mean score of medical science test takers is also significantly higher than that of humanities and social sciences only. These results partially *disconfirm* the second hypothesis that *there will be no significant difference in the mean scores of test takers studying agriculture, basic sciences, engineering, humanities and social sciences, and medical sciences on the listening comprehension subtest of the MSRT*.

TABLE 5.
SCHEFFE POST HOC TEST OF SCORES ON LISTENING COMPREHENSION SUBTEST

(I) Branch	(J) Branch	Mean Difference (I-J)	Std. Error	Sig.
Engineering	Agriculture	1.015*	.266	.006
	Basic Sciences	.847*	.182	.000
	Humanities and Social Sciences	1.054*	.202	.000
	Medical Sciences	.502	.181	.104
Medical Sciences	Agriculture	.513	.247	.364
	Basic Sciences	.345	.152	.272
	Engineering	-.502	.181	.104
	Humanities and Social Sciences	.552*	.175	.041

* The mean difference is significant at the 0.05 level

Table 6 presents the descriptive statistics of mean scores obtained on the structure subtest taken by the test takers majoring in five major branches of knowledge. The One-Way ANOVA analysis showed that the mean scores of the five branches differ significantly from each other ($F = 13.536$, $df = 4$, $p < .001$).

TABLE 6.
DESCRIPTIVE STATISTICS OF SCORES ON STRUCTURE SUBTEST

Five Branches of Knowledge	N	Mean	SD	Std. Error
Agriculture	309	13.52	4.204	.239
Basic Sciences	1296	13.87	3.889	.108
Engineering	713	14.41	4.411	.165
Humanities and Social Sciences	798	12.88	4.565	.162
Medical Sciences	1349	13.74	4.058	.110
Total	4465	13.72	4.197	.063

Table 7 presents the Scheffe post hoc test of the mean scores obtained by test takers on the structure subtest of the MSRT. As can be seen, the basic science, engineering and medical science test takers have scored significantly higher than those majoring in humanities and social sciences. The mean score of engineering test takers is also significantly higher than those of agriculture and medical sciences as well. These results *disconfirm* the *third* hypothesis that *there will be no significant difference in the mean scores of test takers studying agriculture, basic sciences, engineering, humanities and social sciences, and medical sciences on the structure subtest of the MSRT* to a large extent.

TABLE 7.
SCHEFFE POST HOC TEST OF STRUCTURE

(I) Branch	(J) Branch	Mean Difference (I-J)	Std. Error	Sig.
Basic Sciences	Agriculture	.353	.264	.775
	Engineering	-.541	.195	.102
	Humanities and Social Sciences	.988*	.188	.000
	Medical Sciences	.127	.162	.962
Engineering	Agriculture	.895*	.284	.042
	Basic Sciences	.541	.195	.102
	Humanities and Social Sciences	1.529*	.215	.000
	Medical Sciences	.668*	.193	.018
Medical Sciences	Agriculture	.226	.263	.946
	Basic Sciences	-.127	.162	.962
	Engineering	-.668*	.193	.018
	Humanities and Social Sciences	.861*	.186	.000

* The mean difference is significant at the 0.05 level

Table 8 presents the descriptive statistics of mean scores obtained on the reading comprehension subtest taken by the test takers majoring in five branches of knowledge. The One-Way ANOVA analysis showed that the mean scores of five branches differ significantly from each other ($F = 5.551$, $df = 4$, $p < .001$).

TABLE 8.
DESCRIPTIVE STATISTICS OF READING COMPREHENSION SUBTEST

Five Branches of Knowledge	N	Mean	SD	Std. Error
Agriculture	309	16.85	4.618	.263
Basic Sciences	1296	17.38	4.492	.125
Engineering	713	17.63	4.938	.185
Humanities and Social Sciences	798	16.75	5.090	.180
Medical Sciences	1349	17.58	4.498	.122
Total	4465	17.33	4.697	.070

Table 9 presents the Scheffe post hoc test of the mean scores on the reading comprehension subtest of MSRT. As can be seen, only the mean scores of engineering and medical science students are significantly higher than that of humanities and social sciences. These results partially *disconfirm* the *fourth* hypothesis that *there will be no significant difference in the mean scores of test takers studying agriculture, basic sciences, engineering, humanities and social sciences, and medical sciences on the reading comprehension subtest of the MSRT*.

TABLE 9.
SCHEFFE POST HOC TEST OF READING COMPREHENSION

(I) Branch	(J) Branch	Mean Difference (I-J)	Std. Error	Sig.
Humanities and Social Sciences	Agriculture	-.097	.314	.999
	Basic Sciences	-.629	.211	.064
	Engineering	-.878*	.242	.010
	Medical Sciences	-.825*	.209	.004

* The mean difference is significant at the 0.05 level

Table 10 presents the descriptive statistics of mean scores obtained on the MSRT taken by the test takers majoring in five major branches of knowledge. The One-Way ANOVA analysis showed that the mean scores of five majors differ significantly from each other ($F = 12.404$, $df = 4$, $p < .001$).

TABLE 10.
DESCRIPTIVE STATISTICS OF MSRT

Five Branches of Knowledge	N	Mean	SD	Std. Error
Agriculture	309	39.58	10.158	.578
Basic Sciences	1296	40.64	9.479	.263
Engineering	713	42.27	10.796	.404
Humanities and Social Sciences	798	38.81	11.004	.390
Medical Sciences	1349	41.05	10.008	.272
Total	4465	40.62	10.237	.153

Figure 1 presents the plot drawn on the mean scores obtained on the MSRT. As can be seen, the engineering and medical science test takers' mean score is the first and second highest. The humanities and social sciences as well as agriculture test takers have scored the first and second lowest, respectively.

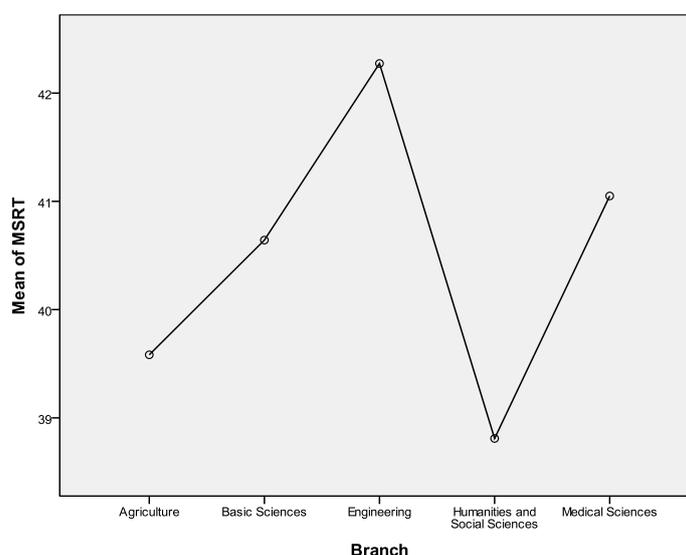


Figure 1. Means plots

Table 11 presents the Scheffe post hoc test of the mean scores on the MSRT. As can be seen, the mean scores of basic science, engineering and medical science students are significantly higher than that of humanities and social sciences. The scores of engineering students are also significantly higher than those of agriculture and basic sciences. These results thus *disconfirm* the *fifth* hypothesis that *there will be no significant difference in the mean scores of test takers studying agriculture, basic sciences, engineering, humanities and social sciences, and medical sciences on the MSRT.*

TABLE 11.
SCHEFFE POST HOC TEST OF MSRT

(I) Branch	(J) Branch	Mean Difference (I-J)	Std. Error	Sig.
Basic Sciences	Agriculture	1.059	.645	.609
	Engineering	-1.632*	.475	.019
	Humanities and Social Sciences	1.832*	.458	.003
	Medical Sciences	-.408	.396	.901
Engineering	Agriculture	2.691*	.694	.005
	Basic Sciences	1.632*	.475	.019
	Humanities and Social Sciences	3.464*	.525	.000
	Medical Sciences	1.224	.472	.151
Medical Sciences	Agriculture	1.467	.642	.266
	Basic Sciences	.408	.396	.901
	Engineering	-1.224	.472	.151
	Humanities and Social Sciences	2.240*	.455	.000

The results of this study are in line with those found by Clapham (1996), Moy (1975) and Shoham, Peretz, and Vorhau (1987). These researchers hypothesized that test takers would score significantly higher on the proficiency tests whose reading passages are closely related to their field of study. Although their findings did not confirm the hypothesis

as regards all the fields investigated, Shoham *et al.* (1987) observed that “humanities and social science students did not do significantly better on the test passage that was considered to be more closely related to their academic discipline” (p. 86). Similarly, the humanities and social sciences students in this study had the lowest score on the MSRT and its subtests.

The findings of the present research, however, differ from Shoham *et al.* (1987) in that the passages comprising the reading comprehension subtest of the MSRT are not field specific. They usually deal with general topics and are mostly written or modified by testing specialists and thus lack authenticity (Khodadady, 1997, 1999). The very unauthentic nature of these passages, i.e., their being written for the sake of testing reading comprehension ability rather than being read for purposes other than testing, might have endowed these passages with certain features which are easily discerned by engineering and medical science test takers.

IV. CONCLUSION

This study explored the performance of one thousand nine hundred and forty two female and two thousand five hundred and thirty eight male test takers on the MSRT proficiency test developed on the disclosed structure, listening and reading comprehension items taken from the disclosed TOEFL. Its findings showed that female test takers scored significantly higher than their male counterparts, implying that either female test takers’ English proficiency is significantly higher than males or the MSRT is gender specific and its fairness is open to question.

The significantly different performance of test takers majoring in agriculture, basic sciences, engineering, humanities and social sciences, and medical sciences on the MSRT, however, seem to support its gender specificity because it is also affected by the test takers’ field of study. Engineering test takers, for example, outperformed agriculture, basic sciences and humanities and social sciences on the listening comprehension subtest of MSRT. Their scores on the reading comprehension subtest were also significantly higher than humanities and social sciences. These results indicate that engineering test takers may have an attribute other than English proficiency which helps them perform better than agriculture and basic science test takers on some measures such as listening comprehension tests.

The non-language attribute possessed by engineering students seems to be shared partly by medical science test takers whose performance on the MSRT does not significantly differ from that of engineering. Similar to engineering, medical science test takers’ scores on the reading comprehension subtest of the MSRT differ significantly from only humanities and social sciences. However, they do not score significantly higher than agriculture and basic sciences on the listening comprehension subtest as engineering test takers do. These results seem to support gender as well as major specificity of MSRT and call for the administration of other proficiency measures such as conventional C-Tests (Klein-Braley, 1997), authentic C-Tests (Khodadady & Hashemi, 2011) and S-Tests (Khodadady, 2012; Khodadady, Alavi, Pishghadam, & Khaghaninezhad, 2012) along with the MSRT to replicate the study and secure fairness in testing in the light of future findings.

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