

Servicio de Publicaciones y Difusión Científica Universidad de Las Palmas de Gran Canaria

Servicio de Publicaciones y Difusión Científica (SPDC), Universidad de Las Palmas de Gran Canaria, Parque Científico-Tecnológico, Edificio Polivalente II, C/ Practicante Ignacio Rodríguez, s/n Campus Universitario de Tafira, 35017 Las Palmas de Gran Canaria, Spain

# El Guiniguada

(Revista de investigaciones y experiencias en Ciencias de la Educación)

eISSN: 2386-3374

10.20420/ElGuiniguada.2013.333 (doi general de la revista)

Journal information, indexing and abstracting details, archives, and instructions for submissions: http://ojsspdc.ulpgc.es/ojs/index.php/ElGuiniguada/index



Physiological Responses to Anxiety and Gender Differences in Second Language Oral Performance

Respuestas fisiológicas a la ansiedad y diferencias de género en la producción oral en segundas lenguas

> Lourdes García Marín María Elena Gómez-Parra Cristina A. Huertas-Abril Universidad de Córdoba

DOI (en Metadatos y en Sumario Revista) Recibido el 30/03/2021 Aceptado el 29/12/2021

*El Guiniguada* is licensed under a Creative Commons ReconocimientoNoComercial-SinObraDerivada 4.0 Internacional License.





Servicio de Publicaciones y Difusión Científica Universidad de Las Palmas de Gran Canaria

# Physiological Responses to Anxiety and Gender Differences in Second Language Oral Performance

Respuestas Fisiológicas a la ansiedad y diferencias de Género en la Producción Oral en Segundas Lenguas

> Lourdes García Marín 162gamal@uco.es María Elena Gómez-Parra elena.gomez@uco.es Cristina A. Huertas-Abril cristina.huertas@uco.es Universidad de Córdoba

# RESUMEN

Esta investigación indaga en la conceptualización de la ansiedad en una segunda lengua en el contexto de la producción oral, considerando las respuestas fisiológicas a la ansiedad y las diferencias derivadas del género en la ansiedad al hablar en una lengua extranjera. El estudio contó con 371 participantes, 185 mujeres y 186 hombres. Entre los participantes se encuentran 313 estudiantes de IFE (Inglés para Fines Específicos), de la Universidad de Córdoba (España), además de 23 profesores y 8 personas de administración y servicios de la misma Universidad que realizaban un curso de IFE. Se administró el Cuestionario de Ansiedad ante los Exámenes (CAEX) a los participantes. Los resultados de los datos cuantitativos de esta investigación muestran que las alumnas demostraron niveles más altos de ansiedad que los alumnos. Los resultados de este estudio pueden contribuir a ayudar al profesorado de todos los niveles educativos a seleccionar mejor sus estrategias de evaluación.

# PALABRAS CLAVE

PRODUCCIÓN ORAL EN SEGUNDAS LENGUAS, ANSIEDAD, RESPUESTAS FISIOLÓGICAS, GÉNERO

# ABSTRACT

his research project investigates the conceptualization of second language anxiety in the context of oral production, considering physiological responses to anxiety and differences derived from gender on foreign language speaking anxiety. There were 371 participants in the study, 185 female and 186 male participants. Among the participants there were 313 ESP (English for Specific Purposes) students at the University of Cordoba (Spain), plus 23 teachers from the same University taking an ESP course, and 8 administrative staff. A questionnaire (CAEX) was administered to participants. Results of the quantitative data in this research show that female learners demonstrated higher levels of anxiety than male learners. The results of this study help all-level teachers to select their testing and assessing strategies more effectively.

#### KEYWORDS SECOND LANGUAGE ORAL PERFORMANCE, ANXIETY, PHYSIOLOGICAL RESPONSES, GENDER



# INTRODUCTION

Language learning is influenced by many factors, one of them being anxiety, which can impact not only on the learning process but also on foreign language oral performance. According to a variety of researchers (e.g., Arnáiz Castro & Guillén García, 2012; Elaldi, 2016; Horwitz et al., 1986; MacIntyre & Gardner, 1989), foreign language anxiety (FLA) can interfere with success in learning a foreign language.

FLA is 'a distinct complex of self-perceptions, believes, feelings, and behaviours related to classroom language learning arising from the uniqueness of the language learning process' (Horwitz & Cope, 1986, p. 128). Anxiety affects the oral performance and interaction of speakers of English as a second language, which can impact on both the results of oral tests and candidates' level of anxiety. Results also may vary depending on the type of performance (individual oral performance and oral interaction).

The aim of this research will be to study the physiological responses to anxiety in oral tests, as well as to measure the difference between male and female learners studying English as a second language. Many learners express their inability to speak a second language; they may be good at other skills but when it comes to speaking, they claim to have a 'mental block' against it. Moreover, such 'mental block' seems to be different when they are speaking to peers (that is, another learner) and when they are speaking to their teachers/examiners, which may be caused by their level of anxiety (Liu, 2006).

# METHODOLOGY

To achieve the objective of this research, the following research question has been formulated: *Are there any significant differences between men and women as second language learners in terms of physiological responses to anxiety in oral exams?* 

The main objective of this paper is to investigate how anxiety affects second language oral performance in English as foreign language (EFL) learners in the context of a specific Spanish university: the University of Cordoba. Secondly, it is also aimed to analyse whether the gender variable may affect the language learning process. There is not much research regarding this topic in the specific context of Spanish university EFL students, which leads us to consider studies of these characteristics necessary. In this line, Horwitz (2001) sustained that general FL anxiety might vary in different cultural groups. Arnáiz Castro & Guillén García (2012) also studied the variable of gender as a factor. The purpose of this study is then to analyse and measure the physiological responses to anxiety in a group of Spanish university subjects, and to find out whether their level of anxiety was similar to the level of other foreign language learners reported in former studies. Participants were randomly chosen. More specifically, this research was conducted in the context of the University of Cordoba, including four types of participants in the whole sample: i) students at English for Specific Purposes (ESP) courses; ii) ESP teachers; iii) administrative staff; and iv) others. The total number of participants in this study is 378 subjects. Group 1 were 313 university students from different degrees taking English as an



English for Specific Purposes (ESP) obligatory subject. The second group of participants, Group 2, was composed of 23 university teachers taking English for Specific Purposes courses. Group 3 were 8 people from the administrative staff at the University of Cordoba taking a General English course, and Group 4 were 8 'other' participants (students who were also working at the moment of the study) taking General English courses.

#### Table 1

Occupation of participants - Percentages

| OCCUPATION  | FREQUENCY | PERCENTAGE | VALID<br>PERCENTAGE |
|---|-----------|------------|---------------------|
| Students (Group 1)                                | 313       | 82.8%      | 89.7%               |
| University Teachers<br>(Group 2)                  | 23        | 6.1%       | 6.6%                |
| Administration and<br>Services Staff (Group<br>3) | 8         | 2.1%       | 2.3%                |
| Others  | 5         | 1.3%       | 1.4%                |
| Total   | 349       | 92.3%      | 100%                |

*Note*. Authors' own elaboration

The number of men and women is almost the same. As we can see on Table 2, out of the 378 participants (N=378, 100% of the sample): 48.9% were women and 49.2% were men.

| Gender of participants – | Percentages |            |            |
|--------------------------|-------------|------------|------------|
| GENDER                   |             |            | VALID      |
|                          | FREQUENCY   | PERCENTAGE | PERCENTAGE |
| MALE                     | 186         | 49.2%      | 50.1%      |
| FEMALE                   | 185         | 48.9%      | 49.9%      |
| LOST                     | 7           | 1.9%       |            |
| TOTAL                    | 378         | 100%       |            |
|                          |             |            |            |

Table 2

Note. Authors' own elaboration

Ages range from 18 to 65 (M=22.24; SD=6.78). Most of the participants' ages are between 18 and 30. 52% of the participants are less than 20 years old and 41% of them are between 21 and 30 years old as can be seen in the figure below.



Taking into consideration the language level established by the *Common European Framework of Reference for Languages* (CEFR) (Council of Europe, 2020): Learning, Teaching, Assessment, participants in this research range from A2 to C2 levels of the CEFR, as it can be seen from table 3.

| Participants' Level of E | nglish - Percentage |            |                     |
|--------------------------|---------------------|------------|---------------------|
| CEFR LEVEL               | FREQUENCY           | PERCENTAGE | VALID<br>PERCENTAGE |
| A2                       | 46                  | 12.2%      | 17.2%               |
| B1                       | 103                 | 27.2%      | 38.4%               |
| B2                       | 91                  | 24.1%      | 34%                 |
| C1                       | 27                  | 7.1%       | 10.1%               |
| C2                       | 1                   | 0.3%       | 0.4%                |
| LOST                     | 109                 | 28.8%      |                     |
| TOTAL                    | 268                 | 70.9%      |                     |

 Table 3

 Participants' Level of English - Percentage

Note. Authors' own elaboration

This research is a quantitative study. Participants were administered a questionnaire and then data were analyzed comparing variables in the questionnaire. In this research, anxiety will refer to the test context. When it comes to oral tests, candidates sometimes feel unable to speak and it may not only be a feeling that they have towards a second language test, but also towards tests in general. To measure this specific type of anxiety, Valero (1999) designed the CAEX (Cuestionario de Ansiedad ante los Exámenes). The CAEX was designed to gather a variety of motor, verbal, cognitive or physiologic responses linked to anxiety towards exams. The CAEX is a 50–item, 0-5 Likert scale questionnaire. The answers to each item range from 0- 5, and the participants had to express the subjective level of anxiety they undergo in some situations; 0 (no siento nada / I do not feel anything), 1 (ligera ansiedad / light anxiety), 2 (un poco intranquilo / a bit anxious), 3 (bastante nervioso / quite nervous), 4 (muy nervioso /very nervous) and 5 (completamente nervioso / absolutely nervous). Valero (1999) classified the items in the questionnaire according to four different behavioral factors:

- <u>Factor 1</u> includes cognitive thoughts and worries about the test: 14 items are included in this factor (8, 13, 15, 16, 17, 19, 21, 24, 25, 30, 31, 37, 38 and 39).
- <u>Factor 2</u> gathers physiological characteristics that appears as anxiety responses: 15 items are included in this factor (1, 2, 3, 6, 7, 9, 10, 11, 20, 26, 27, 28, 29, 33 and 34).



- Factor 3 includes different situations and test proposed as anxiety provoking ones: 14 items are included in this factor (5, 32, 36, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49 and 50).
- Factor 4, which gathers avoidance behaviors, is characteristic of any anxiety problem: 7 items are included within this factor (4, 12, 13, 14, 18, 22 and 23)

CAEX was administered in Spanish as it is the original version (we found no need for translation, as candidates were Spanish native speakers). Some items in the CAEX, however, have been modified to adapt to oral performance as some of them referred to written test. The adaptations of this questionnaire have been validated by experts using the Delphi method. We presented each item to the expert panel members in the form of a six-point Likert scale to be analyzed according to a double parameter: accuracy and adequacy, and a section for additional comments was also included. Then, each expert panel member chose their level of agreement with each statement and suggested all their proposals to improve the item by using free text feedback. After the validation round, we removed some proposed items which did not meet the final requirements of the questionnaire, and those that were not accurate enough were reformulated to meet the expert panel members' requirements. These experts' responses allowed us to refine and adapt CAEX to the final purpose of the research and enable us to have a high reliability on the questionnaire after calculating the Cronbach's alpha.

Furthermore, a background questionnaire which included information about participants' language level, gender, age, and occupation was used.

The questionnaire was administered in the first semester in three different Faculties at the University of Cordoba by three different instructors. Participants were informed about the purpose of the study and were asked to sign a consent and to complete the background questionnaire. In this research we studied Factor 2; the physiological characteristics that appear as responses to anxiety and we compared the results between male and female participants. We have studied and analyzed the answers to the 15 items which correspond to the physiological aspects. SPSS v. version 24 for MacOS was used to conduct the analyses discussed below. The mean and standard deviations were computed for the entire group and then divided by gender.

# RESULTS

After administering the CAEX to our group of participants, the resulting data revealed interesting information about participants' anxiety. Cronbach's alpha coefficient indicates the degree to which the items in a scale measure similar characteristics. This revised version of the CAEX had an internal consistency of 0.898. This shows high internal reliability, similar to that obtained by Valero (1999), which was 0.923.

Table 4 shows the mean and standard deviation for answers to the scale for the whole sample. The highest score is in item 10 (M=3.25), while the lowest score is in item 6 (M=1.74). Those figures are different when we compare male and female results. As



it can be seen in table 5, item 10, male participants' mean is 3.12, whereas for female ones it is 3.44. As for item 6, male participants' mean is 1.81 and female one is 1.69.

#### Table 4

| ITEM   | GENERAL<br>MEAN<br>(N= 371) | STANDARD<br>DEVIATION |
|--|-----------------------------|-----------------------|
| 1. My hands sweat during exams.  | 2.85                        | 0.076                 |
| 2. When I have been doing the exam for a while, I feel discomfort in my stomach and the need to defecate.          | 1.99                        | 0.063                 |
| 5. When I finish the exam, I have got a headache.  | 2.89                        | 0.088                 |
| 6. When I've been doing the test for a while, I feel short of breath, very hot and I feel like I'm going to faint. | 1.74                        | 0.056                 |
| 8. I get nervous when I see the teacher with the exams before going in.  | 2.83                        | 0.078                 |
| 9. In the exam I feel rigidity all over my body.   | 2.30                        | 0.072                 |
| 10. Before entering the exam I feel a "knot" in my stomach, which disappears when I start to speak.                | 3.25                        | 0.081                 |
| 18. I really want to go to the bathroom during the exam.   | 2.42                        | 0.079                 |
| 24. I cannot fall asleep the night before the exam.  | 2.73                        | 0.082                 |
| 25. It makes me nervous that the exam is multitudinous.  | 2.88                        | 0.090                 |
| 26. I felt dizzy and nausea during an exam.  | 2.49                        | 0.087                 |
| 27. Moments before doing an exam I have a dry mouth and it's hard to swallow.                                      | 2.72                        | 0.086                 |
| 30. When I'm doing an exam my heart beats very fast.   | 3.02                        | 0.087                 |
| 31. My legs tremble when I enter the exam room.  | 2.36                        | 0.080                 |

Note. Authors' own elaboration

After analyzing the mean and standard deviation of both groups, we applied Student's *t*-test to assess if there are significant differences between group 1 (male participants) and group 2 (female participants). The Student's *t*- test is a parametric test used when two groups are being compared. This test uses sample means and standard deviations to calculate the probability or likelihood that the groups are different. More specifically, in this case Student's *t*-test for independent samples was used to analyze if there were significant differences (p < 0.05) between the means of the two groups of participants: male and female students. We found no significant differences



between both groups, except for items 1, 18, 25, 30 and 31, being the results of the Student's *t*-test p<0.05. At table 5, significant differences appear in bold. Differences between male and female participants also exist in the rest of items though they are not significant. Only in two of the items, item 2 (2.01-2.00) and item 5 (2.90) both male and female participants show equal or almost equal results.

#### Table 5

|  | Male and female | participants' | ' mean - Student's t-test |
|--|-----------------|---------------|---------------------------|
|--|-----------------|---------------|---------------------------|

| ITEM                   | GENDER | Ν   | Mean | t      | р    |
|------------------------|--------|-----|------|--------|------|
|                        |        |     |      |        |      |
|                        |        |     |      |        |      |
|                        |        |     |      |        | 010  |
| 1. My hands sweat      | Male   | 186 | 3.05 | 2.597  | .010 |
| during exams.          | Female | 185 | 2.66 |        |      |
| 2. When I have been    | Male   | 186 | 2.01 | .042   | .967 |
| doing the exam for     | Female | 184 | 2.00 |        |      |
| a while, I feel        |        |     |      |        |      |
| discomfort in my       |        |     |      |        |      |
| stomach and the        |        |     |      |        |      |
| need to defecate.      |        |     |      |        |      |
| 5. When I finish the   | Male   | 185 | 2.90 | 030    | .976 |
| exam, I have got a     | Female | 185 | 2.90 |        |      |
| headache.              |        |     |      |        |      |
| 6. When I've been      | Male   | 186 | 1.81 | .982   | .327 |
| doing the test for a   | Female | 183 | 1.69 |        |      |
| while, I feel short of |        |     |      |        |      |
| breath, very hot and   |        |     |      |        |      |
| I feel like I'm going  |        |     |      |        |      |
| to faint.              |        |     |      |        | 201  |
| 8. I get nervous       | Male   | 186 | 2.76 | -1.024 | .306 |
| when I see the         | Female | 185 | 2.92 |        |      |
| teacher with the       |        |     |      |        |      |
| exams before going     |        |     |      |        |      |
| in.                    |        |     |      |        | (02  |
| 9. In the exam I feel  | Male   | 186 | 2.34 | .396   | .692 |
| rigidity all over my   | Female | 185 | 2.28 |        |      |
| body.                  |        |     |      |        | 050  |
| 10. Before entering    | Male   | 186 | 3.12 |        | .030 |
| the exam I feel a      | Female | 185 | 3.44 |        |      |
| "knot" in my           |        |     |      |        |      |
| stomach, which         |        |     |      |        |      |



| disappears when I start to speak.                                   |        |     |      |        |      |
|---|--------|-----|------|--------|------|
| 18. I really want to  | Male   | 186 | 2.76 | 4.263  | .000 |
| go to the bathroom<br>during the exam.                              | Female | 183 | 2.10 |        |      |
| 24. I cannot fall   | Male   | 180 | 2.64 | -1.059 | .290 |
| asleep the night<br>before the exam.                                | Female | 178 | 2.82 |        |      |
| 25. It makes me   | Male   | 179 | 2.66 | -2.547 | .011 |
| nervous that the  | Female | 177 | 3.12 |        |      |
| exam is multitudinous.  |        |     |      |        |      |
| 26. I felt dizzy and  | Male   | 181 | 2.43 | 965    | .335 |
| nausea during an exam.  | Female | 176 | 2.60 |        |      |
| 27. Moments before  | Male   | 181 | 2.68 | 707    | .480 |
| doing an exam I<br>have a dry mouth<br>and it's hard to<br>swallow. | Female | 177 | 2.80 |        |      |
| 30. When I'm doing  | Male   | 181 | 2.79 | -2.815 | .005 |
| an exam my heart beats very fast.                                   | Female | 178 | 3.28 |        |      |
| 31. My legs tremble   | Male   | 180 | 2.20 | -2.044 | .042 |
| when I enter the exam room.   | Female | 178 | 2.53 |        |      |

Note. Authors' own elaboration

# DISCUSSION

Anxiety has long been studied as an influential factor in the process of learning a second language. The conclusive results from different studies on how it impacts on students' attitudes show that it should not be taken for granted. How anxiety affects foreign language learning has long been studied since the 1970s (Scovel, 1978), but a general theory about foreign language classroom anxiety was not presented until 1980s by Horwitz (Horwitz, 1995, 2000, 2001; Horwitz et al., 1986; Horwitz & Young, 1991). The main contribution of this research is to underline the physiological responses to anxiety in oral test and performance in the context of the University of Cordoba. It also clarifies the function of gender as an affecting factor in the second language oral production.



The results of the present study show that a high number of ESL learners have average anxiety levels. It can be concluded from the figures showed before that female learners tend to be more anxious than their male counterparts. These results resonate with Torrano-Martínez et al.'s (2017) study among secondary education students. Female Second Language learners showed higher level of anxiety related to physiological responses than male learners. Out of the 14 items, female participants show higher level of anxiety in 8 of them.

As it can be seen from the descriptive statistics and *t*-test results, although both genders have a moderate level of exams anxiety, the anxiety level of female learners has been found to be significantly different between male and female participants. In items 1 and 18, male participants show higher level of anxiety, whereas in items 25, 30 and 31 female participants' level is higher. This study supports the finding of previous studies carried out in the university context and considering the variable of gender (Arnáiz Castro & Guillén García, 2012). In the university context, this study also supports the findings with students who had French as a foreign language (MacIntyre, 2002). Nevertheless, the results of our study contrast with reports submitted by Aida (1994), in which no significant connection between language anxiety and gender was observed.

# CONCLUSIONS

As research confirms, anxiety is a factor affecting second language oral skills, which can even hinder second language learning. All level teachers should consider this affecting factor when teaching. As Díaz Negrín (2014) stated, teacher training is essential to pursue the expected results in learners. It is an aspect which is present all along the second language learning process whatever the learners' variables can be. A major finding of this study is that significant differences between male and female learners exist when dealing with physiological responses to anxiety. The variable of gender should be further researched as the literature has proven to be of great importance in the second language learning process. Sairitupac Santana et al. (2020), demonstrate that female learners show higher percentage of anxiety than male ones. Future research should be taken to find ways to decrease anxiety in the university context and thus create a comfortable learning environment for learners.

# REFERENCES

- Arnáiz Castro, P. & Guillén García, F. (2012). Foreign language anxiety in a Spanish university setting: Interpersonal differences. *Revista de Psicodidáctica*, 17(1), 5-26.
- Council of Europe. (2020). Common European Framework of Reference for Languages: learning, teaching, assessment. Companion volume. Council of Europe Publishing. https://rm. coe. int/common-european-frameworkofreference-for-languages-learningteaching/16809ea0d4, 56.
- Díaz Negrín, M. E. (2014). La formación permanente del profesorado: análisis y sentido. *El Guiniguada, 23,* 53-62.



- Elaldi, S. (2016). Foreign Language Anxiety of Students Studying English Language and Literature: A Sample from Turkey. *Educational Research and Reviews*, 11(6), 219–228.
- Horwitz, E. (2001). Language anxiety and achievement. *Annual Review of Applied Linguistics*, 21, 112-126.
- Horwitz, E. K. (1986). Preliminary evidence for the reliability and validity of a foreign language anxiety scale. *Tesol Quarterly*, 20(3), 559-562.
- Horwitz, E. K. (2016). Factor Structure of the Foreign Language Classroom Anxiety Scale Comment on. *Psychological Reports*, 0(0), 1–6.
- Horwitz, E. K. & Young, D. J. (1991). *Language anxiety: From theory and research to classroom implications*. Pearson College Div.
- Horwitz, E. K., Horwitz, M. B. & Cope, J. (1986). Foreign language classroom anxiety. *The Modern Language Journal*, 70(2), 125-132.
- Liu, M. (2006). Anxiety in Chinese EFL students at different proficiency levels. *System*, 34(3), 301-316.
- MacIntyre, P. D. (2002). Motivation, anxiety and emotion in second language acquisition. *Individual differences and instructed language learning*, 2, 45-68.
- MacIntyre, P. D. & Gardner, R. C. (1989). Anxiety and second language learning: Toward a theoretical clarification. *Language Learning*, *39*(2), 251-275.
- Sairitupac Santana, S., Varas Loli, R. P., Nieto-Gamboa, J., Silva Narvaste, B., & Rodríguez Taboada, M. A. (2020). Niveles de ansiedad de estudiantes frente a situaciones de exámenes: Cuestionario CAEX. *Propósitos y Representaciones*, 8(3). https://doi.org/10.20511/pyr2020.v8n3.787
- Scovel, T. (1978). The effect of affect on foreign language learning: A review of the anxiety research. *Language Learning*, 28(1), 129-142.
- Torrano-Martínez, R., Ortigosa-Quiles, J. M., Riquelme-Marín, A., & López-Pina, J. A. (2017). Evaluación de la ansiedad ante los exámenes en estudiantes de Educación Secundaria Obligatoria. *Revista de Psicología clínica con niños y* adolescentes, 4(2), 103-110.
- Valero Aguayo, L. (1999). Evaluación de ansiedad ante exámenes: Datos de aplicación y fiabilidad de un cuestionario CAEX. *Anales de Psicología*, 15(2), 223-231.



# ANNEX I. Modified and translated version of CAEX - Cuestionario de ansiedad ante los exámenes (Valero, 1999) (Test Anxiety Questionnaire)

Instructions: In each of the items or situations described, indicate with a score of 0 to 5 the degree of anxiety or discomfort you feel in those situations. Use the following criteria:

- 1 I don't feel anything
- 2 Slight anxiety
- 3 A little uneasy
- 4 Quite nervous
- 5 Very nervous
- 6 Completely nervous

| ITEMS  | 1 | 2 | 3 | 4 | 5 | 6 |
|--|---|---|---|---|---|---|
| 1. My hands sweat during exams.                                |   |   |   |   |   |   |
| 2. When I have been doing the exam for a while, I feel         |   |   |   |   |   |   |
| discomfort in my stomach and the need to defecate.             |   |   |   |   |   |   |
| 3. If I'm 5 minutes late for an exam, I don't go in.           |   |   |   |   |   |   |
| 4. The conditions where an exam is performed (e.g. too         |   |   |   |   |   |   |
| much noise, cold, heat, sun, etc.) influence me by             |   |   |   |   |   |   |
| increasing my nervousness.                                     |   |   |   |   |   |   |
| 5. When I finish the exam, I have got a headache.              |   |   |   |   |   |   |
| 6. When I've been doing the test for a while, I feel short of  |   |   |   |   |   |   |
| breath, very hot and I feel like I'm going to faint.           |   |   |   |   |   |   |
| 7. I feel nervous if the teacher stares at me and I can no     |   |   |   |   |   |   |
| longer answer.   |   |   |   |   |   |   |
| 8. I get nervous when I see the teacher with the exams         |   |   |   |   |   |   |
| before going in.   |   |   |   |   |   |   |
| 9. In the exam I feel rigidity all over my body.               |   |   |   |   |   |   |
|  |   |   |   |   |   |   |
| 10. Before entering the exam I feel a "knot" in my             |   |   |   |   |   |   |
| stomach, which disappears when I start to speak.               |   |   |   |   |   |   |
| 11. At the beginning of the test, just reading or listening to |   |   |   |   |   |   |
| the questions I get paralyzed and I can't speak.               |   |   |   |   |   |   |
| 12. After the test I cry easily (thinking how badly I did it)  |   |   |   |   |   |   |
| even if I don't know the result.                               |   |   |   |   |   |   |
| 13. I usually give it a lot of thought before deciding to take |   |   |   |   |   |   |
| the test.  |   |   |   |   |   |   |
| 14. While I'm taking the test, I think I'm doing it very       |   |   |   |   |   |   |
| badly.   |   |   |   |   |   |   |
| 15. I feel nervous if my partner speaks more than I do on      |   |   |   |   |   |   |
| the test.  |   |   |   |   |   |   |
| 16. I have a strong urge to smoke during the test.             |   |   |   |   |   |   |
| 17. I usually bite my nails or anything on my hands during     |   |   |   |   |   |   |
| exams.   |   |   |   |   |   |   |
| 18. I really want to go to the bathroom during the exam.       |   |   |   |   |   |   |
| 19. I get ill and make excuses not to take an exam.            |   |   |   |   |   |   |



| 20. I cannot sit still during the exam (I move my feet, the |  |  |
|---|--|--|
| pen, look around, look at the time, etc.).                  |  |  |
| 21. For me, it is reassuring or comforting when, for        |  |  |
| whatever reason, an exam is postponed.                      |  |  |
| 22. I think I won't be able to pass an exam, even if I've   |  |  |
| studied.  |  |  |
| 23. Before taking the exam, I think that I don't remember   |  |  |
| anything and that I'm going to fail it.                     |  |  |
| 24. I cannot fall asleep the night before the exam.         |  |  |
| 25. It makes me nervous that the exam is multitudinous.     |  |  |
| 26. I felt dizzy and nausea during an exam.                 |  |  |
| 27. Moments before doing an exam I have a dry mouth and     |  |  |
| it's hard to swallow.                                       |  |  |
| 28. If the test has a fixed time to be performed, my        |  |  |
| nervousness increases, and I do it worse.                   |  |  |
| 29. I feel nervous in very large auditoriums.               |  |  |
| 30. When I'm doing an exam my heart beats very fast.        |  |  |
| 31. My legs tremble when I enter the exam room.             |  |  |
| 32. I feel nervous in classes that are too small.           |  |  |
| 33. Groups commenting on the test before it starts make     |  |  |
| me nervous.   |  |  |
| 34. When I leave, I have the feeling that I have done the   |  |  |
| exam very badly.  |  |  |
| 35. I think I'm going to get nervous and forget everything. |  |  |
| 36. I doubt very much when it comes to answering most of    |  |  |
| the questions.  |  |  |

Rate with the same scale (1-6) the degree of anxiety or nervousness that you would feel if you had to take any of the following types of tests:

| 37. A personal interview exam.                  |  |
|---|--|
| 38. An oral exam in public.                     |  |
| 39. An exposition of a work in class.           |  |
| 40. A standard examination in front of a court. |  |