

## FINAL-SELF EVALUATION

**EXERCICES-SELF EVALUATION:** choose the right answer. Only one response is correct. Each question scores one point.

### EVALUATION:

< 12 correct answers: INSUFFICIENT

12 correct answers: SUFFICIENT

12-15 correct answers: PASS

16-20 correct answers: EXCELLENT

### PUNCTUATION

If the score obtained in the test is 12 or lower, it is recommended to work again on the different topics of the course.

## SELF EVALUATION TEST

1. Indicate which of the following sources is the most recommended for obtaining quality information on recent scientific advances:
  - a. Books.
  - b. Articles.
  - c. Science blogs.
2. Secondary sources are recommended as a tool to get an overview of the state of research on a particular topic:
  - a. True.
  - b. False.
3. Which of the following databases would you use to find patent information?
  - a. Teseo.
  - b. Google Academic.
  - c. ESPACENET.
4. The impact factor of a journal:
  - a. Indicate the number of universities affiliated with the journal.

- b. Reflects the average number of downloads of articles published in the journal over a period of time.
  - c. Reflects the average number of citations received by the articles published in the journal over a period of time.
5. In which of the following search engines is it not necessary to be linked to an institution or university to be able to use it?
  - a. Scopus.
  - b. Web of Science.
  - c. Google Scholar.
6. In the abstract of a technical paper, it is important to include bibliographic references to frame the objective of the study:
  - a. True.
  - b. False.
7. Indicate in which section of a technical document the following sentence would appear: "To determine the thermal transitions of polystyrene, temperature ramps of  $20\text{ }^{\circ}\text{C min}^{-1}$  were performed from 0 to  $250\text{ }^{\circ}\text{C}$  using a differential scanning calorimeter (TA Instruments)."
  - a. Materials and methods.
  - b. Results.
  - c. Discussion.
8. Which one of the following statements is correct?
  - a. The table number is placed below the table.
  - b. The figure number is placed below the figure.
  - c. It is recommended to end each section with an illustrative figure.
9. Concerning the bibliographic references used to write a technical document:
  - a. The style required by the publisher or the institution should be consulted to know the format to be followed.
  - b. It is recommended to use a large number of web references that highlight the novelty of the study.

- c. It is recommended to vary the style and format of the references throughout the document to attract the attention of the audience.
10. Concerning the format of the document:
  - a. Each section of the document should be written in a different font type to facilitate the distinction between sections.
  - b. A font size of eight is appropriate for scientific-technical documents since it allows a large volume of information to be included in a few pages.
  - c. The use of boldface helps to highlight phrases or words throughout the document, but this tool should not be overused.
11. Search in Web of Science for information on air pollution aerosols. The search should be performed using the keywords "air pollution aerosols" and refining to search for books. Which author has a book on this topic in "Aerosols Science: Technology and Applications" from 2014?
  - a. Mihalis Lazaridis.
  - b. Pat Goodman.
  - c. Jacques Pelon.
12. Search for the author Avelino Corma in Scopus. Among his publications of the year 2016, which co-author appears most frequently?
  - a. U. Díaz.
  - b. S. Iborra.
  - c. M. Moliner.
13. Among Avelino Corma's publications in 2016, there is an article in Journal of American Chemical Society with the starting page of 15743. How many entities with different addresses participate in this article?
  - a. 2
  - b. 4
  - c. 3

14. Search in Web of Science for the article with DOI reference of 10.1021/acscatal.5b00995, who is the first author?
- P. Serna
  - B. C. Gates
  - C. Martínez-Macías
15. Search in Web of Science for articles containing in the title "epidemiology", how many articles were published in 2016 with this keyword?
- 3405.
  - 3441.
  - 3586.
16. Which of the following formulas do you think would be the most common for presenting the results of a technical study to a governmental entity?
- Introduction, body and conclusions.
  - AIDA (Attention-Interest-Desire-Action).
  - Question and answer.
17. In a presentation, the purpose of using contrasts is:
- Highlight the most important text from the least important, using stronger colors or elements that are above as the most important.
  - Highlight the most important from the least important, using light colors so as not to overload the presentation.
  - Highlight important information by using methods such as black boxes over the entire slide.
18. The voice in a presentation:
- It should have a tone that is not too high but must be dynamic, so that it keeps the audience interested in the presentation.
  - It should be constant throughout the presentation to show confidence.
  - It has to include continuous pauses every very short time, so the audience will be able to assimilate the information.
19. If you were to prepare a presentation:

- a. I would start by showing the results at the end, and thus follow a logical way, although the introduction may be monotonous.
- b. I would try to capture the attention of the audience with the most important points and then describe the details.
- c. I would try to improvise the first part of the presentation, in a way that shows spontaneity to the audience.

20. Regarding the type of font to be used:

- a. It is recommended to always choose the same type of font and color, so as not to divert the attention of the audience
- b. It is relevant to maintain a dynamic presentation and to highlight important details.
- c. It is better to keep it small in order to include as much information as possible.