

Deal with one of the following three subjects:

First subject:

The tendencies generated in the human being are the result of previous sensible experiences and the accompanied pleasure.

- 1- Explain this judgment and state the problematic it raises. (9 points)
- 2- Discuss this judgment in light of another theory that deals with the nature of tendency. (7 points)
- 3- Do you think that the tendency to work continuously is beneficial for the progress in life? Justify your answer. (4 points)

Second subject:

Mathematical notions are innate ideas, God deposited them in human reason.

- 1- Explain this judgment of Descartes and state the problematic it raises. (9 points)
- 2- Discuss this judgment emphasizing the role of sensory experience in the origin of mathematical notions. (7 points)
- 3- Do you think that the use of mathematical calculations is capable to avoid the financial crises which some banks are witnessing? Justify your answer. (4 points)

Third subject: Text

For an observation to be considered scientific, it must be capable of being made and repeated under circumstances that are precisely defined, so that with each repetition under the same circumstances, similar results can always be observed, at least within the limits of the error that inevitably affects our empirical determinations. Furthermore, it is necessary that, within the defined circumstances and within the limits of the errors just indicated, the results should be independent of the observer's constitution; or if there are exceptions, they are due to an anomaly in the observer's constitution that clearly renders this particular individual unfit for a certain kind of observation, without undermining our confidence in the constancy and intrinsic truth of the observed fact.

Cournot

- 1- Explain the text and state the problematic it raises. (9 points)
- 2- Discuss the thesis of the text by emphasizing that the hypothesis is the most important step in the experimental method. (7 points)
- 3- Do you think that artificial intelligence is going to replace the human person in developing experimental sciences? Justify your answer. (4 points)