MATH 390.4 / 650.2 Spring 2020 Philosophy of Modeling Paper

Professor Adam Kapelner

Due 6PM Monday KY604 by email, April 6, 2020

(this document last updated 6:02pm on Monday 6th April, 2020)

Pick one of the prompts and argue for one of the choices.

- (a) The laws of physics are absolutely true /
 The laws of physics are *not* absolutely true /
 The laws of physics are *perhaps* absolutely true.
- (b) There exists an all-powerful, all-knowing and timeless being or intelligence / There does *not* exist an all-powerful, all-knowing and timeless being or intelligence / There *perhaps* exists an all-powerful, all-knowing and timeless being or intelligence.
- (c) Global warming is real / Global warming is not real / Global warming is perhaps real.
- (d) The optimal human diet for health is [insert a diet here] / The optimal human diet for health is not [insert a diet here] / The optimal human diet for health is perhaps [insert a diet here].
- (e) People who smoke contract lung cancer / People who smoke do *not* contract lung cancer / People who smoke *perhaps* contract lung cancer.
- (f) Autonomous vehicles will navigate perfectly / Autonomous vehicles will not navigate perfectly / Autonomous vehicles will perhaps navigate perfectly.
- (g) The government understands the optimal level of taxation / The government does *not* understand the optimal level of taxation / The government *perhaps* understands the optimal level of taxation.
- (h) The medical establishment understand the human body / The medical establishment does *not* understand the human body / The medical establishment *perhaps* understands the human body.

- (i) Credit scores like those given by Experian, TransUnion and Equifax are useful / Credit scores like those given by Experian, etc. are useless / Credit scores like those given by Experian, etc. are perhaps useful.
- (j) What makes a marriage successful is understood / What makes a marriage successful is not understood / What makes a marriage successful is somewhat understood.
- (k) What makes a virus a dangerous pandemic is understood / What makes a virus a dangerous pandemic is not understood / What makes a virus a dangerous pandemic is somewhat understood.

Specs: Your essay must be typed and must be at least 10 pages double-spaced with one inch margin, 12pt Times (or Computer Modern if using LaTeX) and be appropriately organized. You choose a title which will be atop the first page. No need for a title page. Sectioning is at your preference. The bibliography does not count towards the page limit. Keep footnotes to a minimum and do not use endnotes. You must email me a PDF of your paper. Microsoft Word allows saving as PDF, so this is no problem.