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Please write well-reasoned and clearly expressed answers to **3 questions** of your choosing from the following **5 questions** listed below. Please make sure to number each of your answers corresponding to the number of the questions below and please make sure that your name is on each page of your response.

Your responses to these questions are to be submitted **as a single file** to **Zachary Zevitas** <[zevitas@fas.harvard.edu](mailto:zevitas@fas.harvard.edu)> by **12 Noon on Wednesday 8 June** (that is, **5:00 am on Wednesday, 8 June**, Cambridge time). You may submit this document as an attachment to an e-mail that you direct to this address. The time of submission will be noted by the computer automatically at the point of transmission. *(N.B. you should time yourself so that you do not write more than a total of an hour on this quiz – approximately 20 min. per question.)*

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- 1) While climate change is underway on a global basis, not all communities will experience or come to view climate phenomena in the same manner. Why is this? What are the major differences between the “global North” and the “global South” in this regard? What role does China play in this circumstance? In your opinion, are these differences likely to diminish or become more pronounced in the years and decades to come?
- 2) Why, in your opinion, is there such manifest resistance in numerous communities across the globe to the growing body of evidence that is presented by climate scientists? Where is this resistance most pronounced? What might be done to increase public awareness and acceptance of the instrumental data on Earth’s changing climate that is being accumulated around the world?
- 3) The public is besieged with rival claims and counter-claims about climate change in many countries of the world. Is there any way for global citizens (or their leaders) to obtain reliable data amidst all the on flux of data and acrimonious debate on climate issues? Is there a source of “consensus science” on these problems? What are the drawbacks of “consensus science?”
- 4) What are the major different elements of the cryosphere? Why are scientists particularly focused upon about transformations in this realm? Why should citizens be concerned about these changes?
- 5) Since the global heat budget of Earth is changing because of the relative composition of the envelope of gases in its atmosphere, it is likely that water will circulate through the hydrosphere in novel and unusual ways. Yet, on the other hand, not all of this is entirely “unpredictable.” What are some of the likely manifestations of these changes that we could expect to see in the coming months, years or decades?