

## Regular Academic Fall Tournament III

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### Replacements

1T. In a Fisher market, this quantity is pre-determined and usually normalized as one for all goods. For an externality, the social and private marginal costs are used to represent this quantity. A general glut results from an excess of this quantity, which is rejected by followers of Say's law. Above the shutdown point, the (\*) marginal cost curve represents this quantity. An increase in taxes shifts this quantity's curve to the left, and increasing this quantity results in a new market equilibrium with lower price and higher quantity. For 10 points, name this quantity whose curve is almost always upward-sloping when plotted against demand.

ANSWER: supply [accept supply curve] <Kulkarni — Social Science>

1B. The Minnesota Orchestra's 2021–22 season features many composers and performers from this country, including the world premiere of a symphony by this country's Jaakko Kuusisto. For ten points each:

[E] Name this European country. The Orchestra's music director, Osmo Vänskä, is from this country where he studied in its capital of Helsinki.

ANSWER: Republic of Finland

[M] From December 2021 to January 2022, the Orchestra is performing all seven of this Finnish composer's symphonies, including the first and final versions of their Symphony No. 5 in E-flat major. This composer also wrote the tone poem *Finlandia*.

ANSWER: Jean Sibelius

[H] The Orchestra is also performing *D'Om le Vrai Sens*, a concerto for this instrument by Finnish composer Kajia Saariaho. The B-flat variety of this instrument joins a piano, a violin, and a cello in Olivier Messiaen's *Quartet for the End of Time*.

ANSWER: B-flat clarinet

<Rao — Auditory Fine Arts>

2T. Journalist Timothy Egan collected narratives of people in this profession in *The Worst Hard Time*. The Supreme Court struck down an act aiding people in this profession in *US v. Butler*. Many members of this profession known as "Okies" migrated to California during the 1930s. People of this profession were provided (\*) government subsidies by the AAA. People in this profession were disproportionately affected by the Dust Bowl. For 10 points, name this profession whose practitioners were devastated by falling crop prices during the Great Depression.

ANSWER: farmers [or agriculturers] <Kulkarni — American History>

2B. Julius Sextus Frontinus wrote a two-book report on these structures after being appointed by Nerva. For 10 points each:

[H] Name these structures, one of which in Segovia was likely constructed by Domitian. The Anio Novus and the Claudia belonged to four "great" examples of these structures in Rome.

ANSWER: Roman aqueducts [or water bridges; accept aqua; accept Aqua Anio Novus; accept Aqua Claudia; accept Aqueduct of Segovia or Acueducto de Segovia; accept *De aquaeductu*; prompt on bridges]

[E] Construction on the Aqua Anio Novus and the Aqua Claudia began during the reign of this emperor and were completed by his successor, Claudius. This emperor allegedly attempted to install his horse Incitatus as consul.

ANSWER: Caligula [or Gaius Julius Caesar Augustus Germanicus; prompt on "little boots"]

[M] Rome's first aqueduct was built concurrently with the first portion of this other Roman architectural project. After the suppression of Spartacus's revolt, six thousand slaves were crucified along this structure.

ANSWER: Appian Way [or Via Appia] <Kulkarni — Other History>

3T. **Different varieties of these objects are separated using an FACS, which applies a different value of electric charge based on the level of fluorescence exhibited. Apical and basal media are used to study layers of these objects in epithelia. “Lines” of these objects are formed when they avoid senescence, the first human example of which was found with (\*) Henrietta Lacks.** These objects can be cultured either *in vitro* or *in vivo*. Undifferentiated examples of these objects harvested from embryos and bone marrow are called their “stem” variety. For 10 points, name these basic objects of biology, the smallest units of life.

ANSWER: **cells** [accept **cell** lines or HeLa **cells** or stem **cells**; accept specific types of cells; prompt on **tumors**; prompt on **tissues** with “what are tissues composed of?”]

<Ye — Science, Biology>

3B. This work states that a “demonic” form of one concept arises when one is aware of the self but refuses to acknowledge its source. For 10 points each:

[H] Name this work, which states that an individual feels despair when they do not align themselves with God. This work’s title is borrowed from John 11:4 during the story of Lazarus.

ANSWER: *The **Sickness Unto Death*** [or ***Sygdommen til Døden***]

[M] *The Sickness Unto Death*’s description of the second type of despair, which describes awareness but rejection of the self, may have inspired this later existentialist philosopher’s concept of “bad faith”.

ANSWER: Jean-Paul (Charles Aymard) **Sartre**

[E] *The Sickness Unto Death* was written under the pseudonym Anti-Climacus by this earlier Danish existentialist philosopher, who also wrote *Either/Or* and *Fear and Trembling*.

ANSWER: Søren (Aabye) **Kierkegaard**

<Kulkarni — Philosophy>

4T. **The anarchist Galli titles a depiction of one of these events by Carlo Carra, and Phocion is carried out of Athens by two men in a Nicolas Poussin landscape of one of these events. A crucifix on a stick juts out into the top half of a painting depicting one of these events. A yellow-robed St. Peter holds two keys in the top left of a work depicting one of these events. A series of (\*) heads divides another painting of one of these events into “heavenly” and “terrestrial” halves. Gustave Courbet painted one of these events occurring at Ormans. For 10 points, the Count of Orgaz is the subject of an El Greco painting depicting what ceremonies mourning the dead?**

ANSWER: **funerals** [or **burials**; accept *The **Funeral** of the Anarchist Galli*; accept *The **Funeral** of Phocion*; accept *A **Burial** at Ormans*; accept *The **Burial** of the Count of Orgaz*; do not accept or prompt on other funerary practices such as cremation]

<Kulkarni — Visual Fine Arts>

4B. For 10 points each, answer the following about the continuity equation for fluid dynamics:

[E] The continuity equation is essentially a restatement of the conservation of this quantity, measured in kilograms.

ANSWER: **mass** [accept conservation of **mass**]

[M] Mass density is multiplied with this vector quantity in the continuity equation. Streamlines are used to visualize the direction of this quantity.

ANSWER: flow **velocity** [or stream **velocity**]

[H] In the differential form of the continuity equation, this operation is applied to the product of density and velocity and is set equal to the negative time derivative of density. This operation is symbolized del-dot.

ANSWER: **divergence**

<Ye — Physics>

5T. **A style of poetry in this language is divided into the upper and lower phrases. The phonetic units of poetry in this language are known as *on*. Poems in this language were followed by critical commentary in the anthology *The Seashell Game*. Poetry in this language often uses “season words,” and poems in this language separated into independent halves are divided with (\*) “cutting words”. A poetic form originating from this language is standardized to 17 syllables in English, usually in a 5-7-5 pattern. For 10 points, name this language used by Matsuo Basho which *haikus* were originally written in.**

ANSWER: **Japanese** [accept **Nihongo**] <Kulkarni — World Literature>

5B. Howard and Buglar run away from this location at age 13 due to it being haunted. For 10 points each:

[H] Name this location where Sethe, Denver, and later Paul D live. This location is haunted by the ghost of Sethe's first daughter, whom she killed to prevent her being captured as a slave.

ANSWER: **124** Bluestone Road [prompt on Bluestone Road by asking "which house number"; prompt on descriptions of the house from *Beloved*]

[E] 124 Bluestone Road is the primary setting of this author's novel *Beloved*. This African-American author also wrote *The Bluest Eye* and *Sula* and won the Nobel Prize in Literature.

ANSWER: Toni **Morrison** [or Chloe Ardelia **Wofford**]

[M] Prior to living at 124 Bluestone Road, Sethe, Paul D, and the elderly Baby Suggs lived at one of these locations named "Sweet Home." Sethe received scars shaped like a tree from the owner Mr. Garner of one of these locations.

ANSWER: slave **plantations**

<Ye — American Literature>