



**NASAT 2015 - Round 17 - Tossups**

1. In 2004, this leader asked Elliot Morley to focus on suppressing illegal fishing of the Patagonian toothfish. This self-described "dissident" once claimed that if rural people were "any other minority" they would have been treated differently by the government. This supporter of the Cumbrian farmers and critic of the Chelsea Barracks development plan had some of his correspondence published after a Freedom of Information request by journalists at *The Guardian*. This author of the "black spider" memos became the first member of the British Royal Family to have a civil marriage after divorcing a woman who later began a relationship with Dodi Fayed. For 10 points, name this ex-husband of Princess Diana, the eldest son of Queen Elizabeth II.

ANSWER: **Charles**, Prince of Wales <Clarke>

2. This man gives instructions to dress a departing hero in a robe that does not discolor until he arrives back at his home city. He is the intended recipient of a series of instructions directed at a wall in a reed hut. In his first appearance, this man wonders why "stone things" have been destroyed, and sees a man approach him by using punting poles to cross a sea of death. This man and his wife are assisted by Ea in persevering through an event brought on by Enlil's anger. His wife lays out a loaf of bread for each of the seven days that a hero spends sleeping. Later, this man informs that hero about an immortality-granting plant at the bottom of a pool. For 10 points, name this immortal flood survivor in the *Epic of Gilgamesh*.

ANSWER: **Utnapishtim** [or **Atrahasis**; or **Ziusudra**; or **Xisuthrus**; or **Sisithrus**] <Kim>

3. A moralizing epitaph drawing from its author's earlier *Poemata* is carved into the base of this sculpture. That couplet defending this sculpture's piety reads "Those who love to pursue fleeting forms of pleasure, in the end only find leaves and bitter berries in their hands" and was composed by Maffeo Barberini. This sculpture was commissioned to replace *Pluto and Proserpina*, which had been regifted to Cardinal Ludovico Ludovisi by Scipione Borghese. This sculpture of a scene from Ovid's *Metamorphoses* depicts bark creeping up the legs of the female character as her fingertips transform into laurel leaves. For 10 points, name this marble Bernini sculpture of the lovestruck god of light and poetry pursuing the title nymph.

ANSWER: **Apollo and Daphne** <Smart>

4. A piece with this nickname is Muzio Clementi's *Piano Sonata Op. 13, No. 6*. Another symphony with this nickname contains a repeated motif of an A major chord turning into A minor over the timpani, and debate exists over whether its Scherzo movement is performed before the Andante. Schubert himself gave his fourth symphony this title. A symphony with this nickname contains the Alma theme. An orchestral piece with this title was written as a companion piece to reflect themes opposite that of the *Academic Festival Overture*. In a symphony with this nickname, a hammer is used to signal three "blows of fate." For 10 points, name this word, which titles an overture by Brahms and Mahler's sixth symphony.

ANSWER: **tragic** [or **tragische**] <Lee>

5. In this novel, the protagonist demonstrates his renewed faculties by bailing out two women who get arrested dressing up as sailors to pick up French girls. In another scene from this novel, the North African Conte di Minghetti becomes irate when his sister is asked to clean out dirty bathwater. In this novel, a woman damaged by sexual abuse from her father, Devereux Warren, recovers and enters into an affair with Tommy Barban. When this novel's protagonist loses his personal charm to alcoholism, he alienates the star of *Daddy's Girl*, Rosemary Hoyt. This novel details the decline of the psychologist Dick Diver, whose failed marriage to Nicole Warren is based on the author's own marriage to his wife Zelda. For 10 points, name this final completed novel by F. Scott Fitzgerald.

ANSWER: ***Tender Is the Night*** <Bollinger>

6. An unsuccessful rebellion against a ruler of this name aimed to install Stephen of Aumale in his place, and was led by Robert de Mowbray. An earlier ruler with this name deposed the Archbishop Stigand in favor of his trusted adviser, Lanfranc of Pavia. Notable monarchs with this given name include one who was fatally shot by Walter Tirel and one who suffered a postmortem stomach rupture at his funeral due to an incorrectly sized coffin. This was the name of a king whose wars with Edwin, Morcar, and Edgar the Ætheling led to the Harrowing of the North. For 10 points, give this name shared by several Kings of England, the first of whom defeated Harold Godwinson at the Battle of Hastings and was thereafter known as "the Conqueror."

ANSWER: **William** <Clarke>

7. During this event, a doctor relates how he taught the man at the center of this event to say "Gott der Vater...Gott der Sohn" after giving him a pound of nuts. In another speech during this event, the speaker's country is compared to a galloping troika. A man at the center of this event exclaims, "He was a dog and died like a dog!" when he hears that his brother has hung himself. Towards the end of this event, Ippolit Kirillovich and Fetyukovitch give their concluding speeches. Katerina Ivanovna's presentation of a letter is central to the outcome of this event, in which a torn envelope shifts blame away from Smerdyakov. For 10 points, name this event from a Dostoevsky novel in which the brother of Ivan and Alyosha is convicted of parricide.

ANSWER: the **trial of Dmitri** Karamazov [or obvious equivalents mentioning **Dmitri** Karamazov; prompt on the **trial of Karamazov**] <Sy>

8. As a professor, this psychologist had his students look up at a building, and found that over three-fourths of passersby would look up with them. A clothing merchant named "Mr. Jones" would prove instrumental in another of his experiments. An experiment by this man asked individuals in Wichita and Omaha if they knew a person in Boston. That experiment studied the idea of a "small world" where any two people are linked by a maximum of "six degrees of separation." In another experiment, verbal cues such as "please continue" were used to encourage participants into delivering electric shocks to an unseen stranger taking a false memory test. For 10 points, name this Yale psychologist who conducted a namesake "obedience to authority" experiment.

ANSWER: Stanley **Milgram** <Saric>

9. Two of these particles would be excited in a giant pairing vibration. In-beam and bottle experiments differ on the value of this particle's average lifetime by almost four standard deviations. The z-component of this particle's isospin is negative one-half. Calculating the beta factor requires the number of these particles that are "prompt". The r- and s-processes, both important to nucleosynthesis, involve the capture of this particle. The experiment that discovered these particles fired them into a sheet of paraffin wax. Water or graphite are commonly used to slow down "fast" examples of these particles in nuclear reactors. For 10 points, name these neutral nucleons.

ANSWER: **neutrons** <Silverman>

10. The Circe effect is the large increase in this quantity due to electrostatic attractions. This quantity represents the x-axis of an Eadie-Hofstee plot. It can be estimated at first pass as  $k_{cat}$  divided by  $K_{sub-m}$ . One over this quantity is plotted on the y-axis of a Lineweaver-Burke plot. This quantity is limited by the rate of diffusion in carbonic anhydrase, which has an extremely high turnover number. This quantity's concentration at its half-maximum is called the Michaelis constant. For 10 points, name this quantity given by the Michaelis-Menten equation, the speed at which an enzyme converts substrate into product.

ANSWER: catalytic **velocity** [or **v**; or catalytic **rate**; or catalytic **efficiency**; accept "enzyme" in place of "catalytic;" or the effective **rate constant**; or obvious equivalents; prompt on **turnover number**; prompt on binding **affinity**] <Silverman>

11. Ernst Gombrich popularized the idea that the characters in this painting represent different Neo-Platonist ideals. The most popular theory behind this painting's creation is that it was made for the marriage of Lorenzo di Pierfrancesco. At the left of this painting, clouds are broken up by a man waving a staff. The character in the middle of this painting is surrounded by a myrtle plant taking an arch-like shape. Zephyrus grasps Chloris at the right side of this painting, near the top of which a putto aims an arrow at the three Graces. The backdrop of this painting is formed by an orange grove. For 10 points, name this painting by Sandro Botticelli, in which Venus and other mythological characters celebrate spring.

ANSWER: *La* **Primavera** [or *The Allegory of Spring* before the end of the question] <Lee>

12. The wheel spider, which is named for its tendency to rapidly cartwheel down sand dunes, is native to this desert. This desert includes a salt pan named "Dead Marsh," named for the dead acacia trees that litter its landscape. The *Welwitschia* plant, known for its long lifespan, is native to this desert. With the nearby Naukluft Mountains, this desert is part of the largest game reserve in Africa. The whaling hub of Walvis Bay sits on the edge of this desert. The meeting of a Hadley cell and the Benguela current envelops this desert in fog. A collection of shipwrecks and whalebones lies on the aptly-named Skeleton Coast along this desert. For 10 points, name this desert that runs along the coast of southwestern Africa.

ANSWER: **Namib** Desert <Golimlim>

13. Anomalies in this phenomenon are addressed with Rabbi Zeira's stringency. This phenomenon is established by a *veset*, and a bedikah cloth is used to assess it in the ritual *hefsek tahara*. The states of *zavah ktanah* and *zavah gedolah* arise when this phenomenon occurs during the days of *zivah* instead of the days of *niddah*. A *metzarah*, a person in the state of *zav*, or someone undergoing this phenomenon can cause an object to become a *midras*, and those people must purify by immersing in a *mikveh*. Special huts are constructed to house people during it to prevent contamination with their uncleanness, and sexual intercourse is strictly forbidden during this monthly phenomenon. For 10 points, name this normal physiological process considered "impure" by many religions during which the uterine lining is shed.

ANSWER: **menstruation** [or **being on your period**; accept word forms and equivalent answers] <Smart>

14. After leaving this position, a man claimed he was leading an expedition to look for tree-climbing fish. A man who held this post was mocked with the line "Tony, Tony, where's your pushcart?" and the slur "Bohunk" by corrupt rival William Hale Thompson. Disgruntled office seeker Patrick Prendergast murdered a man holding this position in the 1870s, named Carter Harrison Sr. In 1933, a man holding this position was critically wounded by Giuseppe Zangara in Miami; that man, Anton Cermak, was shot while shaking hands with actual target Franklin Roosevelt. For 10 points, name this political position whose 1893 occupant led his city in hosting the World's Columbian Exposition.

ANSWER: **Mayor of Chicago** <Cheyne>

15. The long flexible tail ejection system is used by some of these pathogens. The N proteins of some of them form a complex with Nus that acts as an antiterminator. The proteins Gam, Exo, and Beta derived from one of these pathogens form the basis of the Red recombineering system. Some types use a *cos* site for DNA circularization. A namesake ATP-dependent DNA ligase is derived from a T-even type of these pathogens. Esther Lederberg discovered a species of them now used in specialized transduction. Their DNA was labeled with radioactive phosphorus in the Hershey-Chase experiment, which used the T2 species. For 10 points, name these viruses such as lambda that infect bacteria.

ANSWER: bacteri**phage** [or colib**phage**; or *Enterobacteria* **phage** *lambda*; or lambda **phage**; or T4 **phage**] <Smart>

16. The German KTB program conducted seminal follow-up research using this technique. If not using a continuous process, pipe tripping is required when using this technique, in order to conduct well logging. Some data falsification aside, the crowning example of this technique occurred on the Kola Peninsula, which probably reached the brittle-ductile transition zone. This type of research is often followed by seismometer readings since resolution is greatly increased compared to surface measurements. Most typically, it pumps in a namesake "mud" to reduce viscosity and provide cooling, and uses a rotary drive on a derrick or rig. For 10 points, name this technique that involves removing a thin column of crustal rock, typically with a hollow-cored bit, in order to study the interior of the Earth.

ANSWER: scientific **drilling** deep into the Earth's crust [or **boring** deep into the Earth's crust; or obvious equivalents; or **coring** until "hollow-cored" is read; prompt on **oil**, **gas**, **groundwater**, **mineral**, **geothermal**, or **geotechnical** explorations; prompt on **geotechnical**, **geological**, or **environmental** studies] <Voight>

17. This philosopher once attended a conference on homelessness to dispute that homelessness is a political issue, leading to a public argument with Albrecht Wellmer over the distinction between social and political concerns. This philosopher found an "unwritten political philosophy" within Kant's *Critique of Judgement*, which was expanded into a theory of "reflective judgment" of particular situations as the basis of values. This philosopher defined action as equivalent to freedom and used the terms "animal laborans," "homo faber," and "zoon politikon" to describe laboring, working, and active lives in *The Human Condition*. This writer of *The Life of the Mind* criticized a user of "officialese" and "stock phrases" for abrogating moral responsibility in a 1963 book written on assignment from *The New Yorker*. For 10 points, name this philosopher who reported on the trial of a Nazi official in *Eichmann in Jerusalem*.

ANSWER: Hannah **Arendt** < Bollinger >

18. This character is taught how to play chess by Jose Moncada after he allows the delivery of a letter to Moncada's wife. This man is assisted by Roque Carnicero, who had earlier tried to shoot him. This man negotiates a peace at Neerlandia after he loses all thirty-two of the civil wars he starts, after which he retires to making golden fish in his workshop. All but one of this man's seventeen sons are found assassinated with permanent Ash Wednesday crosses on their foreheads. This character, while facing a firing squad, remembers "that distant afternoon when his father," Jose Arcadio, "took him to discover ice." For 10 points, name this liberal colonel from *One Hundred Years of Solitude*.

ANSWER: Colonel **Aureliano** Buendia [or Coronel **Aureliano** Buendia; or any answer indicating that it's the **first Aureliano**; prompt on **Buendia**; do not accept "Aureliano Segundo" or "Aureliano Babilonia" or "Aureliano Arcadio"] <O'Rourke>

19. Donaldina Cameron was a missionary in this city known as "Jesus Woman" or the "Angry Angel." A criminal in this city, "Little Pete," walked around in chain mail armor until he was shot in the spine at a barbershop. Governor Henry Gage denied there was an epidemic in this city, a disease Mayor James Phelan blamed on certain "filthy" immigrants. In 1900, the first bubonic plague epidemic in the continental U.S. broke out in this city. A brothel owner in this city, Ah Toy, was frequently harassed by gangs committing "slave girl" raids during the Tong Wars. For 10 points, name this California city with the oldest Chinatown in North America, which was ravaged by a 1906 earthquake.

ANSWER: **San Francisco** [prompt on **Chinatown**] <Cheyne>

20. This character's hair is very black on his chest, somewhat lighter on his head, and golden in the lower parts of his body. Hilda leaves cigarettes on the floor of this man's house, where he defends his switch between "proper" English and the Derby accent. At the end of the novel he appears in, this man writes that a part of his body named John Thomas says goodbye to Lady Jane. As he looks upon an estate at night, this man is noticed by Ivy Bolton, a woman who takes care of the owner of Wragby. This character is unable to divorce Bertha Coutts and is the father of a child claimed by Duncan Forbes. For 10 points, name this gamekeeper who, in a D. H. Lawrence novel, carries on an affair with Constance Chatterley.

ANSWER: **Oliver** Mellors [or Oliver **Mellors**; prompt on **Lady Chatterley's lover**] <Sy>

21. In a play by this author, a man slashes his chest and denounces his religion after learning the "song of self-sufficiency." In another of his plays, a man named Booster returns from a jail term he received for killing a woman who accused him of rape and takes his father's place as the manager of the title unlicensed taxi business. The washed-up musician Wining Boy sells his clothes to Lymon in a play by this author in which the central family is haunted by Sutter's ghost as Boy Willie attempts to sell the title object. In another play, he wrote about Cory, who is forbidden to play football by his father, Troy Maxson. For 10 points, name this African-American playwright of the "Pittsburgh Cycle," which includes *The Piano Lesson* and *Fences*.

ANSWER: August **Wilson** <Casalasp>



### NASAT 2015 - Round 17 - Bonuses

1. A "pan-" form of this process occurs in the kinetoplasts of trypanosomes and begins with a guide RNA base-pairing with a transcript. For 10 points each:

[10] Name this uncommon process in which specific nucleotides are inserted, substituted, or deleted. ADARs catalyze deamination of adenosine to inosine in the A-I form of this process.

ANSWER: RNA **editing** [or pan-**editing**]

[10] In another type of editing, cytidine is deaminated into the nucleoside version of this pyrimidine base. Nirenberg and Matthaei used repeating units of this base to crack the genetic code.

ANSWER: **uracil** [or **uridine**; or **U**]

[10] Kinetoplasts consist of maxicircles and minicircles of kDNA containing multiple copies of this organelle's 37-gene genome, which is maternally-inherited.

ANSWER: **mitochondria** [or **mitochondrion**] <Smart>

2. This poetry cycle opens with a section titled "Instead of a Foreword." For 10 points each:

[10] Name this collection of ten short poems, inspired by the author's experiences with the arrest of her son Lev Gumilev and other events of the State Terror under Stalin.

ANSWER: **Requiem** [or **Rekviem**]

[10] *Requiem* is a collection by this female Russian poet whose uncharacteristically long *Poem Without a Hero* is narrated by a woman in Sheremet'ev Palace.

ANSWER: Anna **Akhmatova** [or Anna Andreevna **Akhmatova**]

[10] This other 20th-century Russian poet included the garden and mirror cycles in his collection *My Sister, Life*. In the West, he's better known for writing *Doctor Zhivago*.

ANSWER: Boris **Pasternak** [or Boris Leonidovich **Pasternak**] <Sy>

3. Zeus took pity on this woman and her son Arcas by turning them into constellations. For 10 points each:

[10] Name this woman or nymph, a follower of Artemis who was seduced by Zeus and later turned into a bear.

ANSWER: **Callisto**

[10] Zeus took on this disguise to seduce Callisto.

ANSWER: he disguised as **Artemis** herself

[10] In Ovid's *Metamorphoses*, the story of Callisto ends with a command to this god from Juno never to let the new constellations touch his domain.

ANSWER: **Oceanus** <Jackson>

4. James Thomson, the author of "Rule, Britannia," wrote a poem "sacred to the memory" of this man upon his death in 1727. For 10 points each:

[10] "Name this Englishman whose epigraph claims God said this thinker's name when "Nature and Nature's laws lay hid in night."

ANSWER: Sir Isaac **Newton**

[10] The aforementioned epitaph was penned by this translator of Homer who wrote of the "dire offence" of the theft of Belinda's hair in *The Rape of the Lock*.

ANSWER: Alexander **Pope**

[10] Pope's essay "Peri Bathous," which describes a number of ways to "sink," or write poor poetry, was a parody of this Greek author's *Peri Hypsous*, or *On the Sublime*.

ANSWER: **Longinus** [or **Pseudo-Longinus**] <Sy>

5. This party's leaders included Yitzhak Shamir, one of the four men who authorized the assassination of Folke Bernadotte. For 10 points each:

[10] Name this right-wing party that was formed by an alliance of the Herut, Liberal Party, the Free Centre, the National List and the Movement for Greater Israel before the 1973 election.

ANSWER: **Likud** party [or **Likud**-Liberalim Leumi; or **Unity**-National Liberals]

[10] This former Prime Minister of Israel founded the Likud party. This opponent of David Ben-Gurion led Irgun when it massacred about 600 Arabs at Deir Yassein village.

ANSWER: Menachem **Begin** [or Menachem Wolfovitch **Begin**]

[10] Begin signed this agreement in 1978 with Anwar Sadat. This agreement set the precedent for the Oslo Accords and was facilitated by Jimmy Carter at the namesake presidential retreat.

ANSWER: **Camp David** Accords <O'Rourke>

6. In motion of this type, an observer from Earth will see a planet such as Mars appear to move in a loop in the sky. For 10 points each:

[10] Give this adjective that describes the rotation of Venus and Uranus as well as the revolution of Triton around Neptune.

ANSWER: **retrograde**

[10] Satellites undergoing retrograde revolution are considered captured bodies. Bodies can be captured when they fall into this region where an object exerts gravitational domination on a smaller body even though both bodies are under the gravitational influence of a more massive object.

ANSWER: **Hill sphere** [or **Roche sphere**]

[10] Smaller bodies in a three-body system can stably reside at these points, where they are in gravitational equilibrium with two larger bodies. A prominent example of such a situation is the Trojan asteroids in Jupiter's orbit.

ANSWER: **Lagrange** points <Lee>



7. An *Andante. Nobilmente e semplice* theme begins this composer's *Symphony No. 1*, written in the unusual key of A-flat major. For 10 points each:

[10] Name this composer of a B minor violin concerto and a choral piece that ends with the Angel singing "Softly and gently, dearly-ransomed soul" after a man journeys into Purgatory.

ANSWER: Edward **Elgar**

[10] Elgar also composed this set of six marches most often heard at graduation ceremonies.

ANSWER: **Pomp and Circumstance** Marches [or **Pomp and Circumstance** Military Marches]

[10] This tenth of Elgar's *Enigma Variations* includes a melody played by solo viola and has the woodwinds parody the stutter of the composer's title female friend.

ANSWER: "**Dorabella**" [or "**Intermezzo: Allegretto**"] <Kim>

8. Portraits of musicians by an artist from this group include *King David Playing the Harp* and *The Happy Violinist with a Glass of Wine*. For 10 points each:

[10] Name this pan-European set of artists represented in Spain by Francisco Ribalta and in Utrecht by Gerrit van Honthorst and Hendrick ter Brugghen. These painters adopted the tenebrism of their namesake painter.

ANSWER: **Caravaggisti** [or **Caravaggesques**; or descriptive answers akin to **followers of Caravaggio**]

[10] The Caravaggisti also made heavy use of this technique of strongly contrasting light and dark. Appropriately, this term is Italian for "light-dark."

ANSWER: **chiaroscuro**

[10] Though not a member of the Caravaggisti, this French artist from the generation after Caravaggio's used chiaroscuro in religious scenes like *The Penitent Magdalene*, which are all illuminated by a single candle.

ANSWER: Georges **de la Tour** <Gupta>

9. Answer the following about the Ural Mountains, for 10 points each.

[10] This vast region lies to the east of the Ural Mountains. It is crossed by a namesake railway, which is also the longest in the world.

ANSWER: **Siberia**

[10] This island group, which separates the Kara and Barents Seas, is geologically an extension of the Ural Mountains. Tsar Bomba, the most powerful nuclear test in history, was conducted on this island group's Severny portion.

ANSWER: **Novaya Zemlya** [or **Nova Zembla**; or **New Land**]

[10] Nine skiers in the Ural Mountains died after fleeing their camp during this 1959 incident. The unusual condition of the recovered bodies have led to several theories about its causes, which are still unknown.

ANSWER: **Dyatlov Pass** incident <Ray>

10. Answer the following about some British battles that took place at bridges, for 10 points each.

[10] This 1066 victory for Harold Godwinson took the life of Harald Hardrada and ended the Viking invasion of Britain.

ANSWER: Battle of **Stamford Bridge**

[10] The poet Blind Harry chronicled the life of this man, who won a decisive victory with Andrew de Moray at Stirling Bridge. This Scotsman later lost at Falkirk and was hanged, drawn, and quartered on the orders of Edward Longshanks.

ANSWER: William **Wallace**

[10] This king's favored nobleman, Robert de Vere, led his forces at the Battle of Radcot Bridge, which resulted in few casualties. Earlier, this king resisted the Wonderful Parliament's demands to dismiss Michael de la Pole.

ANSWER: **Richard II** [prompt on **Richard**] <Golimlim>

11. This philosopher was never able to enroll enough students to complete one of his courses at the University of Berlin, since he repeatedly scheduled his lectures at the same time as Hegel's in an effort to spite him. For 10 points each:

[10] Name this pessimistic author of *The World as Will and Idea*.

ANSWER: Arthur **Schopenhauer**

[10] Schopenhauer equates his idea of the "will" with this Kantian concept, an unknowable "real" substance that is separate from the object of perception.

ANSWER: the **thing-in-itself** [or the **ding an sich**; or the **noumenon**]

[10] According to the third book of *The World as Will and Idea*, humans can mitigate their suffering by becoming temporarily "will-less" in the contemplation of this thing. Schopenhauer considered this thing the purest embodiment of "will" itself.

ANSWER: **music** [prompt on **art**] <Bollinger>

12. Answer the following about the Fock operator, for 10 points each.

[10] The Fock operator includes a term for electronic repulsion named for this Frenchman, whose namesake law gives the electrostatic force between two charges.

ANSWER: Charles **Coulomb**

[10] The Fock operator also includes the exchange operator, which swaps the positions of two particles and evaluates the energy. A fermionic wavefunction must be antisymmetric with respect to the exchange operator according to this rule.

ANSWER: Pauli **exclusion** principle [or **Pauli** exclusion principle]

[10] The inadequacies of Hartree-Fock are usually due to this phenomenon, in which Coulombic repulsion reduces the interaction energy because the electrons "coordinate" their spatial positions to be further apart in the orbital.

ANSWER: electron **correlation** <Silverman>

13. In an oft-anthologized section of this book, lawyers convince an Easterner that his client's ranch is lost because another man's ranch has slid down a hill and covered it intact. For 10 points each:

[10] Name this Mark Twain travelogue that details his travels with his brother Orion in Nevada, California, and Hawaii. Its events precede his travels to the Holy Land, which are the subject of *The Innocents Abroad*.

ANSWER: **Roughing It**

[10] In a more famous Mark Twain work, Huck Finn helps this slave, who runs away from Miss Watson.

ANSWER: **Jim**

[10] In a famous passage from *Huck Finn*, Huck rips up a letter to Miss Watson, says, "All right then," and proclaims his willingness to suffer this punishment as a consequence of helping Jim.

ANSWER: **go to hell** [or obvious equivalents mentioning **hell**] <Sy>

14. This character's commanding officer is a "trig westpointer most succinctly bred." For 10 points each:

[10] Name this man "whose warmest heart recoiled at war." At the end of the poem about him, the speaker calls him "more brave than me, more blond than you."

ANSWER: **Olaf**

[10] This poet of "i sing of Olaf glad and big" eschewed ordinary grammar and typography in his poems, such as "anyone lived in a pretty how town" and "i carry your heart with me."

ANSWER: E. E. **Cummings** [Edward Estlin **Cummings**]

[10] In the final line of Cummings's poem "somewhere i have never traveled,gladly beyond," he states that not even this phenomenon has hands as small as his beloved's.

ANSWER: the **rain** <Sy>

15. During this year, protesters chanted "We are all German Jews," reflecting the heritage of Daniel Cohn-Bendit, the leader of the March 22 Movement. For 10 points each:

[10] Give this year in which a widespread wildcat strike occurred, inspired by student protests at the Sorbonne. Those strikes and protests threatened the administration of Charles de Gaulle.

ANSWER: **1968**

[10] In another 1968 event, the Soviets put an abrupt stop to Alexander Dubcek's reforms by invading this capital of Czechoslovakia.

ANSWER: **Prague** [or **Praha**]

[10] The dismissal of this politician from Edward Heath's cabinet triggered an eruption of 1968 strikes. Those events occurred after he gave his controversial "Rivers of Blood" speech against immigration.

ANSWER: Enoch **Powell** [or John Enoch **Powell**] <Golimlim>

16. This ballet, which was staged completely from memory for its Bolshoi Theater premiere, includes perhaps the most famous *ballet blanc* in its second act. For 10 points each:

[10] Name this ballet, composed by Adolphe Adam, in which the power of the title peasant girl's love saves Albrecht from the wrath of the Wilis, a group of powerful supernatural nymphs.

ANSWER: **Giselle**

[10] This ballerina, who along with Dame Margot Fonteyn was one of only two to be recognized as a *prima ballerina assoluta*, was renowned for her interpretation of Giselle. With Sir Anton Dolin, she co-founded the English National Ballet.

ANSWER: Dame Alicia **Markova**

[10] In *Giselle*, the Wilis kill men by forcing them to perform this action to exhaustion. This is also the manner of death of the Chosen One at the end of *The Rite of Spring*.

ANSWER: **dancing** [accept word forms] <Gupta>

17. Dental employee Elton Simpson was killed in this state while trying to attack the Curtis Culwell Center. For 10 points each:

[10] Name this state where Simpson and a partner were slain while engaging in a violent protest of an event organized by Pamela Geller. While a security officer was shot in the ankle, both Simpson and his associate died.

ANSWER: **Texas**

[10] Simpson and roommate Nadir Hamid Soofi attacked the Texas event which Geller organized to promote the controversial and blasphemous drawing of this religious figure.

ANSWER: **Muhammad**

[10] Geller is the head of this organization which has been described as an anti-Islam hate group. Its European equivalent is led by Anders Pedersen.

ANSWER: **Stop Islamization of America** [or **SIOA**; or **American Freedom Defense Initiative**; or **AFDI**] <Cheyne>

18. Spirit Airlines successfully accused Northwest Airlines of this practice in the Detroit market. For 10 points each:

[10] Name this practice of selling goods below cost in order to force another firm out of the market. The "theory of the long purse" was an early explanation for it.

ANSWER: **predatory pricing**

[10] Firms use predatory pricing to maintain this type of market, where there is only one seller.

ANSWER: **monopoly** [do not accept "oligopoly"]

[10] Natural monopolies may exist when the industry displays this feature, in which long-run average costs are decreasing up to a quantity that exceeds market demand.

ANSWER: **economies of scale** [do not accept "economies of scope"] <Bailey>

19. The validity of this statement is undecidable as a result of Gödel showing that no contradiction arises when adding it to Zermelo-Fraenkel set theory, but Paul Cohen showing that no contradiction arises when the negation of this statement is added. For 10 points each:

[10] Identify this statement, which says that there is no set whose cardinality is between the integers and the reals.

ANSWER: **continuum** hypothesis

[10] The continuum hypothesis was proposed by this German mathematician and developer of transfinite numbers. His namesake set is a fractal formed by repeatedly removing the middle third of line segments.

ANSWER: Georg **Cantor**

[10] The continuum hypothesis is the first of Hilbert's 23 problems. Hilbert's 7th problem asks whether numbers of the form  $\alpha$  to the  $\beta$ , where  $\alpha$  is algebraic and  $\beta$  irrational, have this property, which is possessed by  $e$ ,  $\pi$ , and  $e$  to the  $\pi$ .

ANSWER: **transcendental** [or word forms] <Schindler>

20. Two cannons known as the "Twin Sisters" were used in this battle against an enemy who failed to post sentries as his men slept. For 10 points each:

[10] Name this decisive victory for the Republic of Texas, in which the capture of Antonio López de Santa Anna prompted a quick end to further hostilities.

ANSWER: Battle of **San Jacinto**

[10] This politician and military leader, who triggered the Archive War by attempting to relocate the capital of Texas, commanded Texan forces at the Battle of San Jacinto.

ANSWER: Samuel "Sam" **Houston**

[10] Houston's victory at San Jacinto came after this desperate campaign, during which news of the massacres at the Alamo and Goliad caused the provisional government of Texas to flee from Santa Anna's advancing army.

ANSWER: **Runaway Scrape** <Clarke>

21. The first of these paintings by this artist was created after the artist decided to visit war-torn Valparaíso in Chile. For 10 points each:

[10] Name these paintings by a specific artist, which include a depiction of the "Old Battersea Bridge" in "blue and gold," as well as one that led the artist to be accused of "flinging a pot of paint in the public's face."

ANSWER: James McNeill **Whistler's nocturnes** [or **nocturnes** by James Abbott McNeill **Whistler**; prompt on **Whistler**; prompt on **nocturnes**]

[10] In Whistler's *Nocturne: Blue and Gold - Old Battersea Bridge*, the "old church" from this London neighborhood is visible. *Nocturne: Blue and Silver* depicts the waterfront of this area, the site of the pleasure gardens where Whistler painted the notorious *Falling Rocket*.

ANSWER: **Chelsea**, London

[10] Whistler is of course best known for his *Arrangement in Grey and Black, No. 1*, a painting of this person. A description is acceptable.

ANSWER: his **mother** [or **Anna Matilda Whistler**; or Anna **McNeill**; prompt on **Whistler**] <Gupta>