



## NSC 2018 - Round 05 - Tossups

**1. In his final appearance, this character experiences a severe toothache after asserting "as a weapon I may be of some use. But as a man, I'm a wreck," then leaves to join King Milan's forces. This man buys a painting of two boys fishing, and commissions a portrait, from his fellow expatriate Mihailov. He is shocked to learn that his lover is pregnant between one scene in which he glimpses his rival Makhotin's chestnut (\*) Gladiator, and another scene in which he rides his own horse Frou-Frou to death. This character first encounters his future lover at a railway station, where a worker is crushed by a train, and is initially interested in Kitty Shcherbatsky. For 10 points, name this Leo Tolstoy character, a nobleman who has an affair with Anna Karenina.**

ANSWER: Count Alexei (Kirillovich) Vronsky [prompt on Alexei]  
<Carson, Literature - European>

**2. This country's intelligence service, SEBIN (see-BIN), has often raided the beer company Polar for "political interference." In June 2016, Lufthansa took a hundred-million-dollar write-down on debts owed to it by this country. Other debt holders were reluctant to attend a 2017 restructuring meeting because its Vice President, (\*) Tareck El Aissami, is designated by the Kingpin Act as a drug trafficker. A debt default in this country could cause it to lose control of Citgo. This country's president, a former bus driver, was elected six weeks after his popular predecessor died in Cuba in 2013. The average citizen of this country lost 19 pounds in 2016 due to food shortages compounded by runaway inflation. For 10 points, name this Latin American country ruled by Nicolas Maduro.**

ANSWER: Venezuela [or Bolivarian Republic of Venezuela]  
<Bentley, Current Events - Foreign>

**3. Miniature artists depicting Noah's Ark often drew from the lavish ship *Asayish* or "Peace" that this ruler constructed. In his well-regarded diary, this father of Hindal records breaking his wine cups and vowing never to drink again to rally troops over Rana Sanga at the Battle of Khanwa. The 1992 destruction of a mosque named for this man in Ayodhya sparked a wave of violence. He ordered a road survey between (\*) Agra and the city where he's buried, Kabul. With the help of Ottoman artillery, he defeated a force that included some one thousand elephants to overcome the Lodi Dynasty at the 1526 Battle of Panipat. He was the first emperor of a dynasty that claimed descent from Tamerlane. For 10 points, name this grandfather of Akbar and first Mughal Emperor.**

ANSWER: Babur [or Babar; or Baber; or Zahir al-Din Muhammad]  
<Bentley, History - World>

**4. Near the equator, this structure's namesake "dip angle" is approximately zero since its individual components are parallel to the surface. During the Pleistocene, this phenomenon underwent an "excursion" known as the Laschamp event. Walter Elsasser proposed that this phenomenon was generated from the mechanical motion of a fluid interacting with a (\*) conductor. Dynamo theory explains the origins of this phenomenon, which generates the patterns in mid-ocean ridges that confirmed the Vine–Matthews–Morley hypothesis. "Stripes" in mid-ocean ridges that are used for geologic dating are caused by "reversals" of this structure's polarity. For 10 points, name this field which has a strength of around .65 Gauss, and affects compasses used on Earth.**

ANSWER: **geomagnetic** field [accept **Earth's magnetic** field; prompt on **magnetic** field]

<Jose, Science - Earth Science>

**5. A religious poem by this author consists of a series of questions and answers, including "Shall I find comfort, travel-sore and weak?" In another poem, this poet writes, "My heart is like a rainbow shell that paddles in a halcyon sea... because my love is come to me." In another poem by this author of "Up-Hill" and "A Birthday," "no grass will grow" on the grave of Jeanie, who "pined away." A poem by this author opens with the (\*) antagonists listing "bloom-down-cheek'd peaches, swart-headed mulberries," and many other fruits with the refrain "Come buy, come buy." In that poem, Lizzie allows herself to be beaten by the title creatures to save her sister Laura. For 10 points, name this Victorian woman who wrote "Goblin Market."**

ANSWER: **Christina Rossetti** [prompt on **Rossetti**]

<Bollinger, Literature - British>

**6. This composer used a folk song in 2/4 time that shifts into 3/4 as the theme of the muted B-flat major *Andante cantabile* (on-DON-tay con-TAH-bee-lay) movement of his first string quartet, a common cello encore. In a two-movement chamber piece, this composer wrapped up a set of variations, mostly in E major, by returning to the A minor funereal (fyoo-NEE-ree-ul) theme of the "Pezzo elegiaco" (PET-so el-eh-JAH-ko) first movement. He wrote the string sextet (\*) *Souvenir de Florence* (soov-NEER duh fluh-RAWNCE). Sergei Taneyev (tuh-NAY-yiff) premiered his two-movement Piano Trio dedicated to the memory of Nikolai Rubinstein, who had earlier criticized his Piano Concerto No. 1 in B-flat minor. The *Allegro con grazia* second movement of a symphony by this composer is a 5/4-time "limping" waltz. For 10 points, name this Russian composer of the *Pathétique Symphony*.**

ANSWER: Pyotr Ilyich **Tchaikovsky** [or Peter Ilich **Tchaikovsky**]

<Kothari, Arts - Music>

**7. People may become part of this group through the act of *Pabbajja* as many as seven times in some traditions. Men under the age of 20 may become trainees known as *samaneras* in this group, according to regulations laid out in the Vinaya. Some people of this type attempted to become mummified while alive in the practice of *sokushinbutsu* (soak-SHEEN-boot-su). Saichō and Hōnen were two of these people who respectively brought the Tendai and (\*) Pure Land schools to Japan. These people may use a wooden fish to keep rhythm while chanting. The third Jewel of Buddhism consists of people of this occupation, the community of which is called Sangha. For 10 points, name these religious people responsible for guiding the laypersons who live in temple communities to achieve nirvana.**

ANSWER: Buddhist **monks** [accept **Buddhist nuns**; accept **bhikkhus**; accept **bhiksus**; accept **bhikkunis**; accept **Sangha** until read; prompt on **Buddhists**; prompt on **nuns**]

<Wang, RMP - Other Religion>

**8. The effects of this condition are described in a pioneering patient narrative by German humanist Ulrich von Hutten. The Fugger (FOOG-guh) family imported guaiacum (GWY-uh-kum) wood from Hispaniola for the treatment of this condition, a method the alchemist Paracelsus opposed in favor of the use of mercury. Mercenaries afflicted with this condition were unable to fight in the Battle of Fornovo after spreading it to Naples during King Charles VIII's (\*) Italian campaign, beginning its common association with France. Along with maize and potatoes, this disease is one of the species usually thought to have been brought to the Old World via the Columbian Exchange. For 10 points, name this sexually-transmitted disease whose final stage causes disfigurement and insanity.**

ANSWER: syphilis [accept French disease before "France"]

<Brownstein, History - European>

**9. A class of compounds named for this element consists of a combination of a group-one metal sulfate salt and this element's sulfate salt. Either silicon dioxide or this element's oxide are the most common materials used for the stationary phase in column chromatography (chrome-uh-TAH-graphy). A very strong reducing agent consists of lithium, this element and four atoms of (\*) hydrogen. A mineral containing this element, three atoms of sodium and six atoms of fluorine, called cryolite (CRY-oh-light), is used as a solvent in the purification process of this element. That process reduces this element's oxide using electrolysis, and was discovered by Charles Hall and Paul Héroult (ay-ROO). For 10 points, identify this element obtained from bauxite, which has symbol Al.**

ANSWER: aluminum [or Al until read; or lithium aluminum hydride; do not accept or prompt on "alumina"] (The lead-in refers to the alum class of compounds.)

<Prieto, Science - Chemistry>

**10. This thinker, who is not William of Ockham, had his theory of action and reaction as mathematical hypotheses classified by Karl Popper as a use of his namesake "razor." A limerick about this thinker's views considers a situation when "there's no one about in the quad." This thinker argued that it is impossible to conceive of an unconceived object; that argument is known as this thinker's (\*) "master" argument. This thinker used the example of an oar that appears crooked in water to show how we cannot always abstract from our perceptions. That example is part of this philosopher's theory that there are no mind-independent objects. For 10 points, name this philosopher, who argued that "to be is to be perceived" in *Three Dialogues between Hylas and Philonous*.**

ANSWER: George Berkeley

<Boyd, RMP - Philosophy>

**11. Due to a lack of rete pegs, this tissue tends to shear easily. Less of this tissue forms during primary intention than during secondary intention. Reactive astrocytes can produce "glial" analogues of this tissue, formed after injury to the central nervous system. The keloid type of this tissue can form tumors. This tissue's fibers are oriented in only one direction, not the basket-weave pattern typically formed by (\*) collagen. The atrophic type of this tissue is often seen in acne patients. A form of this tissue known as "stretch marks" can occur during pregnancy. This tissue, which forms after damage to the dermis, does not contain sweat glands or hair follicles. For 10 points, name this fibrous tissue that replaces skin after an injury.**

ANSWER: scar tissue [accept glial scars]

<Wang, Science - Biology>

**12. Harriet develops a crush on the visiting Captain John in this country in *The River*, the first color movie by Jean Renoir. A film from this country has a long close-up of water bugs skimming on a pond. In a film from this country, a character played by Johnny Walker sings a song to a struggling poet about massaging peoples' heads with oil. Two siblings in a film from this country chase a train through a field of flowers and return to find their elderly neighbor (\*) Indir dead. In another of its films, a group of villagers win a bet to beat the British in a game of cricket. Movies from this country include *Pyaasa* and Satyajit Ray's *Apu Trilogy*, which was scored by Ravi Shankar. For 10 points, name this country, where films like *Lagaan* are produced in "Bollywood."**

ANSWER: **India**

<Kothari, Arts - Film>

**13. Rupert Blue called 250 men out of retirement to deal with this event. Gold miners were sent to Brevig Mission, Alaska, after that town's Inuit community was particularly affected by this event. The rail transport of the Chinese Labor Corps may have sparked this event in the US. Royal S. Copeland led a campaign to stop New Yorkers from (\*) spitting to contain this event. The common name for this event was coined when King Alfonso XIII (the thirteenth) was affected by it in a country that lacked wartime press censorship. Over three percent of Metropolitan Life's prime-age insured workers were killed during this event. Worldwide, 100 million people were killed during this event by a strain of H1N1. For 10 points, name this pandemic that overlapped with the close of World War I.**

ANSWER: **Spanish Flu** Pandemic [or **1918 flu** pandemic; or **Spanish influenza** pandemic; prompt on partial answers]

<Bentley, History - American>

**14. A text written in this non-Greek language begins "the flowing river never stops, and yet the water never stays the same." That work recounts a whirlwind and an earthquake before describing the writer's retreat to a ten-square-foot hut. In another book in this language, the daughter of the Minister of the Left dies giving birth to the son of the title character, who is described as (\*) "Shining." A work in this language contains lists of "Embarrassing Things" and "Pleasant Things." In a novel in this language, a chapter called "Illusion" appears just before a blank chapter indicating the main character's death. *The Pillow Book* and *Hojoki* are examples of this language's *zuihitsu* (ZOO-ee-heet-soo) genre. For 10 points, name this language used to write *The Tale of Genji*.**

ANSWER: **Japanese** [or **Nihongo**]

<Kothari, Literature - World>

**15. Pausanias (paw-SAY-nee-us) claimed that this man founded a city at a site that was either where the cap fell from his scabbard or where he found a thirst-quenching mushroom. Four daughters of Pelops married four of this man's sons, one of whom, Electryon, succeeded him after he was killed by a son of Proetus (pro-EE-tus) with whom he had previously traded kingdoms. This cousin of (\*) Megapenthes (mega-PEN-theez) and founder of Mycenae (my-SEE-nee) fulfilled an oracle by accidentally killing his grandfather Acrisius, who had previously cast him and his mother out to sea in a chest. This man was raised by the fisherman Dictys (DIK-tiss), whose brother Polydectes (poly-DEK-teez) sent him on a quest that involved consulting the Graeae (GRAY-ay) and approaching his foe with a mirrored shield. Danaë (DAN-ay) was the mother of, for 10 points, what Greek hero who killed Medusa?**

ANSWER: **Perseus**

<Carson, RMP - Greco-Roman Myth>

16. A volume of poetry titled for this place includes a poem whose speaker sees a "crowd of Hungarians" with a "keg of beer and an accordion" while trying to discover "happiness." A poem titled for this place compares it to "the terrible burden of destiny" that laughs "as a young man laughs," and claims that this place is "brutal" since the speaker has seen the "marks of wanton hunger" on the "faces of women and children" in this place. A (\*) 1916 collection of poetry titled after this city laid out a vision of "American realism" later developed in the collections *Cornhuskers* and *Smoke and Steel*; in that book, this city is called a "tool maker," "stacker of wheat," and "hog butcher of the world." For 10 points, name this "City of the Big Shoulders" described in a Carl Sandburg poem.

ANSWER: Chicago [accept *Chicago Poems*]

<Jose, Literature - American>

17. The most famous of the *Eleusa* style of these objects is named for its one-time home in the city of Vladimir. *Acheiropoieta* (ah-kair-oh-poy-EE-tah) are artworks of this type believed not to have been made by humans, such as the legendary Mandylion of Edessa. These objects may be protected by a *riza*, a partial cover of ornamented metal. One of these artworks depicts three angels sitting around a cup and is titled *The Holy Trinity*. One pose in these artworks is called (\*) "Pantocrator," and another, called "Hodegetria," shows the Theotokos, or Virgin Mary, pointing towards the infant Jesus by her side. Andrei Rublev painted many of these artworks, whose use was opposed during two periods in Byzantine history. For 10 points, name these religious paintings often venerated in the Eastern Orthodox Church.

ANSWER: icons

<Kothari, Arts - Painting>

18. A short story by Arthur Machen spread the legend that the ghosts of soldiers from this battle assisted troops at the Battle of Mons in World War I. The oriflamme banner was last flown at this battle, where both the chief admiral and constable of the losing side were killed. The victors here had earlier besieged Harfleur and were marching back to Calais. Five years after this decisive battle, the victorious monarch was wed to (\*) Charles VI's daughter via the Treaty of Troyes (twah). The narrow confines of the battlefield between two woods gave an advantage to the winning side's many longbowmen over the superior cavalry numbers of the losers in this battle. For 10 points, name this 1415 victory for Henry V during the Hundred Years' War.

ANSWER: Battle of Agincourt

<Bentley, History - European>

19. The fact that North American Clovis stone tools look similar to those of a culture whose type site is in this country led Dennis Stanford and Bruce Bradley to propose the Solutrean (so-LOO-tree-in) hypothesis. A techno-complex whose type site is in this country succeeded the Oldowan (OHL-doo-wahn) industry and is known for its oval hand-axes. The Acheulean (uh-SHOO-lee-in) and Mousterian (moo-STAIR-ee-in) industries are named after sites in this (\*) European country, as is a method of prepared-core stone knapping. Fungal growths threaten a site in this country that contains an image of a dead man with a bird's head next to a staff topped with a bird. The Chamber of Felines and Hall of the Bulls include some of the hundreds of wall paintings in that site in, for 10 points, what country that contains the Levallois (leh-vall-WAH) site and the caves of Lascaux (lass-KOH)?

ANSWER: France [or French Republic or République française]

<Kothari, Social Science - Anthropology>

**20. This phenomenon can be empirically modelled using the Oswald efficiency factor. The strength of this phenomenon increases drastically in the presence of an adverse pressure gradient due to boundary layer separation. Paradoxically, classical analysis indicates that this phenomenon cannot be present in an irrotational, incompressible, and inviscid (in-VISS-id) system. This phenomenon's namesake coefficient is typically plotted as a function of the (\*) Reynolds number. The common "quadratic" form of this force is proportional to the square of an object's velocity. This force counterbalances gravity for an object falling at terminal velocity. For 10 points, name this aerodynamic force that acts in opposition to the direction of motion.**  
ANSWER: **drag** [or **air resistance**; prompt on **friction**]  
<Busse, Science - Physics>

**21. Nicholas Rankin's biography of war correspondent George Steer is titled for the telegram that broke the news of this event. *Le Canard Enchaîné* compared one side's claim that this action occurred due to a deliberately-set fire with the claim that Joan of Arc burned herself at the stake. This action, part of the War in the North, was codenamed Operation Rugen and partially involved the Aviazione Legionaria. An arms factory and a sacred oak tree (\*) survived this action, which was carried out primarily by Ju-52 bombers from the Condor Legion. The Paris World Fair was the site of the premiere of a 25-by-11-foot black-and-white painting of this event. For 10 points, identify this event, the destruction of a Basque town in the Spanish Civil War that inspired a namesake Pablo Picasso painting.**  
ANSWER: bombing of **Guernica** [accept equivalents like destruction of **Guernica**; accept Operation **Rugen** until read; accept **Gernika** in place of "Guernica"]  
<Bentley, History - European>



### NSC 2018 - Round 05 - Bonuses

1. The 170 men who rowed each of these ships often came from Piraeus and were *thetes*, the lowest class of citizen. For 10 points each:

[10] Identify these Athenian ships named for the three rows of oarsmen who powered them.

ANSWER: **triremes**

[10] Athenian oarsmen played a crucial role at Salamis, where a Greek fleet defeated a numerically superior force under this Persian general. This successor of Darius I (**dah-RYE-us the first**) overwhelmed the Spartans at Thermopylae.

ANSWER: **Xerxes** [or **Xerxes** the Great; or **Xerxes** I; or **Khshayarsha**]

[10] The *thetes* were not allowed to be members of this council, which met on a rock named for the Greek god of war. Under Ephialtes, this body lost much of its power.

ANSWER: **Areopagus**

<Bentley, History - European>

2. A hyphal network known as the Hartig net is formed in the "ecto" type of these relationships, which are not exhibited by *Arabidopsis thaliana* and other members of the mustard family. For 10 points each:

[10] Name these mutualisms between plants and fungi. Orchids need to have these mutualisms in order to germinate.

ANSWER: **mycorrhizae** (my-KOR-ih-zay) [or **mycorrhizas**]

[10] In mycorrhizae, fungi are symbiotic with this part of the plant that originates from the radicle. These plant organs absorb nutrients and anchor a plant in the soil.

ANSWER: **roots**

[10] In this type of mycorrhizae, the fungi send hyphae into the cortical cells of roots, forming namesake branch-like structures. This most common type of mycorrhizae is formed by fungi of the division Glomeromycota (**glomero-my-KOH-tah**).

ANSWER: **arbuscular** mycorrhizae [accept **arbuscules**; prompt on **endomycorrhizae**]

<Grames, Science - Biology>

3. These events are believed to follow the Poisson distribution since "their hits aren't clustering" and their "mean density" remains constant. For 10 points each:

[10] Name these events that correlate with Tyrone Slothrop's sexual escapades as he travels across Europe in the novel *Gravity's Rainbow*.

ANSWER: **V-2** rocket strikes [accept any answers indicating that they are caused by **rocket** strikes]

[10] *Gravity's Rainbow* was written by this author, who incorporated his knowledge of mathematics into various stories in his collection *Slow Learner*.

ANSWER: Thomas **Pynchon** [or Thomas Ruggles **Pynchon**]

[10] A "faithless harlot" named Yashmeen Harlot tries to convince all mathematicians to get into fatal duels in this 2006 novel by Thomas Pynchon, which follows the adventures of the Chums of Chance on an airship.

ANSWER: **Against the Day**

<Jose, Literature - American>

4. This man wrote the book *The Gentle Art of Making Enemies* after a lengthy 1878 trial in which he was only awarded one farthing. For 10 points each:

[10] Name this man, who was accused of "flinging a pot of paint in the public's face" by the critic John Ruskin after the appearance of his *Nocturne in Black and Gold*.

ANSWER: James Abbott McNeill **Whistler**

[10] Whistler's other musically-inspired works include his *Arrangements* series. One of those works is an "arrangement in gray and black" depicting a profile view of Anna, who has this familial relation to Whistler.

ANSWER: his **mother** [or **mom** or **mama**; accept **Whistler's Mother**]

[10] The thick brushwork in *Nocturne in Black and Gold* was derived from this Japanese artist. With Keisai Eisen (**KAY-sigh AY-sen**), this artist created the *The Sixty-Nine Stations of the Kiso Kaidō* series.

ANSWER: Utagawa **Hiroshige** (**hee-ro-SHEEN-geh**) [accept names in either order]

<Jose, Arts - Painting>

5. In this country, the farmer Jacobus Brits discovered the world's largest meteorite near the town of Grootfontein (**GROOT-fon-tyne**). For 10 points each:

[10] Name this country home to the Caprivi Strip. It shares a land border with Angola to its north.

ANSWER: Republic of **Namibia**

[10] Though English is an official language in Namibia, its residents often speak this European language. The empire that spoke this language fought the UK and France for control of its African colonies in World War I.

ANSWER: **German** [or **Deutsch**]

[10] In 2006, Windhoek (**VINT-hook**) hosted the world's largest *braai*, which is one of these events popular in southern Africa. A South American version of these events is called *asado*.

ANSWER: **barbecue** cookouts [or **BBQ**; or **cookout**; or **outdoor cooking**; prompt on **cooking** or other events that don't mention "cooking outdoors"; accept preparing **smoked** meats in a social gathering of some sort; prompt on **grill** or equivalents; prompt on **feast** or equivalents]

<Jose, Geography - World>

6. See if you "know your onions" by answering these questions on stuff popular in the 1920s, for 10 points each.

[10] Shipwreck Kelly was a record holder in this activity, once doing it for 49 days in Atlantic City. A plank was usually placed on top of the namesake objects in this activity.

ANSWER: **flagpole sitting**

[10] Female swimming took off after Gertrude Ederle swam the English Channel. Ederle was celebrated with one of these types of Manhattan parades in which paper with stock prices was thrown out the windows.

ANSWER: **ticker-tape** parade

[10] Alma Cummings popularized these "corn and callus carnivals" with a 27-hour performance with 6 partners in 1923. Seattle tried to ban these events after a woman spent 19 days competing in one but only came in fifth.

ANSWER: **dance marathons** [or **walk-a-thons**; or **union derbies**; or **dance-a-thons**; prompt on **dance contests**]

<Bentley, History - American>

7. An equation in this subfield of physics uses a constant that equals one over the quantity  $4\pi$  times the vacuum permittivity. For 10 points each:

[10] Name this subfield that studies charged objects at rest, often using Coulomb's law.

ANSWER: **electrostatics**

[10] The triboelectric effect, studied in electrostatics, deals with how this force can impart charge onto objects. Its "kinetic" type opposes the direction of motion and occurs when two objects rub together.

ANSWER: **frictional** force

[10] This equation from electrostatics sets the Laplacian (**la-PLAHSS-ee-in**) of the electric potential equal to negative charge density divided by permittivity.

ANSWER: **Poisson's** equation

<Minarik, Science - Physics>

8. During her monologue, this character asks "Do any human beings ever realize life while they live it?" For 10 points each:

[10] Name this character who marries high school baseball hero George Gibbs before dying in childbirth and reliving her twelfth birthday with the help of the Stage Manager.

ANSWER: **Emily Webb** [accept either underlined name]

[10] Emily is a character in this play by Thornton Wilder about the residents of Grover's Corners.

ANSWER: **Our Town**

[10] Wilder's other plays include one about a merchant from this town seeking a wife. This city is also where Jay and Arty live with their grandma and aunt Bella Kurnitz in a Neil Simon play.

ANSWER: **Yonkers**

<Grames, Literature - American>

9. The creation of this figure is described in the 57th chapter of the *Skáldskaparmál* (**SCALDS-ka-par-MAWL**), where he is formed from the spittle of the gods. For 10 points each:

[10] Name this mortal being who supposedly knew the answer to every question posed to him. His blood was later used to create the mead of poetry.

ANSWER: **Kvasir**

[10] The creation of Kvasir occurred as a part of a truce to end the war between the Aesir and this other group of Norse divinities, who did not live in Asgard. Gods in this group include Njord (**nyord**) and Freya.

ANSWER: **Vanir**

[10] Two of these beings named Fjalar (**FYAH-lar**) and Galar murdered Kvasir to create the mead. Two more of them named Brokkr and Sindri crafted the ring Draupnir and the hammer Mjölnir (**m'YOHL-neer**).

ANSWER: **dwarfs** [or **dwarves**; or **dvergr**]

<Jose, RMP - Other Myth>

10. In a book about this opera's composer, Romain Rolland (ro-MAN ro-LAWN) analyzes how its "Prisoners' Chorus" was incorporated into the four different overtures its composer wrote for it. For 10 points each:  
[10] Name this opera in which Leonore (lay-oh-NOH-ruh) disguises herself as a man in order to save her husband Florestan, a political prisoner under Don Pizarro.

ANSWER: **Fidelio** (fih-DAY-lee-oh)

[10] *Fidelio* was the sole opera by this German composer of the *Moonlight Sonata*.

ANSWER: Ludwig van **Beethoven**

[10] This conductor and his stage director Alfred Roller are credited with the innovation of performing *Leonore Overture No. 3* before the final scene, in which Don Fernando ends Don Pizarro's tyranny. This conductor left Vienna to lead the Metropolitan Opera from 1908 to 1910.

ANSWER: Gustav **Mahler**

<Kothari, Arts - Opera>

11. Members of this group likely kidnapped and tortured to death William R. Higgins, who was overseeing a UN peacekeeping effort in 1985. For 10 points each:

[10] Identify this Shi'a militia group that receives backing from Iran. Hassan Nasrallah has headed this group since 1992.

ANSWER: **Hezbollah** [or **Hizbullah**; or **Hizballah**; prompt on Party of God; prompt on Party of Allah]

[10] Hezbollah first formed in this country, following an Israeli invasion in the early 1980s. This country's government, based in Beirut, instigated a 2008 conflict when it cut off Hezbollah's private telecom network.

ANSWER: **Lebanon** [or **Lebanese Republic**]

[10] Give either the first or last name of the Lebanese Christian who was assassinated by a car bomb in 1982 before he could become President. A 2008 Israeli film by Ari Folman is named for him.

ANSWER: Bashir **Gemayel** (bah-SHEER jem-AY-yill) [or **Bashir** Gemayel; or Bashir al-**Jimayyel**; or Bashir al-**Jumayyil**; or Bashir El **Gamaiel**; accept *Waltz with Bashir*]

<Bentley, History - World>

12. *Note to moderator: Do not reveal answerline instructions for part one.* MTBE (M-T-B-E), which contains this functional group, is added to gasoline to prevent engine knocking. For 10 points each:

[10] Name this functional group that undergoes the autoxidation (awt-oxidation) reaction to form explosive peroxides, making them dangerous to leave open to air for long periods of time.

ANSWER: **ethers** [do not prompt on "epoxides"]

[10] Ethers can be prepared by deprotonating (dee-PRO-tuh-NATE-ing) one of these compounds and adding an alkyl halide. They contain hydroxyl (hi-DROX-ill) groups, and the simplest one is methanol.

ANSWER: **alcohols**

[10] This functional group is a cyclic ether with three atoms: two carbon and one oxygen. Some chemistry lab benchtops are made of a resin consisting of a very tough polymer of this functional group.

ANSWER: **epoxides**

<Prieto, Science - Chemistry>

13. *Note to moderator: Do not reveal answerline instructions for part one.* In the introduction to the second edition of this novel, the author admitted that he had made up the story rather than finding it "printed at Naples, in the black letter, in the year 1529." For 10 points each:

[10] Identify this novel by Horace Walpole in which Prince Manfred hears a sigh come from the portrait of his grandfather, Alfonso the Good, after he declares his intention to marry Isabella.

ANSWER: *The **Castle of Otranto*** [or *The **Castle of Otranto: A Gothic Story***]

[10] *The Castle of Otranto* is an early example of this genre of literature, which features elements of horror and motifs such as mysterious old buildings. This genre was parodied by Jane Austen in *Northanger Abbey*.

ANSWER: **Gothic** fiction [or **Gothic** novel]

[10] *The Castle of Otranto* opens with Manfred's son Conrad being crushed to death by a giant one of these objects adorned with black feathers.

ANSWER: **helmet**

<Bentley, Literature - British>

14. Long cello solos enter one minute into this composer's overtures *Morning, Noon, and Night in Vienna* and *Poet and Peasant*, which were used in the cartoon *Baton Bunny* and as organ music for *Roller Coaster Tycoon's* merry-go-rounds. For 10 points each:

[10] Name this Austrian composer of the *Light Cavalry Overture* and light operas like *Pique Dame* (**peek dahm**).

ANSWER: Franz von **Suppé**

[10] The soundtrack of the cartoon *A Corny Concerto* uses this composer's *Tales from the Vienna Woods*. A medley of music by this "Waltz King" in *Roller Coaster Tycoon* includes *The Blue Danube*.

ANSWER: Johann **Strauss II** [or Johann **Strauss the Younger**; or Johann **Strauss Jr.**; or Johann **Strauss Sohn** (**zone**); prompt on **Strauss**]

[10] After a flute cadenza imitating birdsong, *Tales from the Vienna Woods* evokes rural European folk music in a long solo for this string instrument, a flat board crossed with a few dozen strings plucked by a plectrum.

ANSWER: **zither**

<Lifshitz, Arts - Music>

15. The modern form of this process was first used on Lord Chancellor Francis Bacon in 1621. For 10 points each:

[10] Identify this process in which the House of Commons commands the House of Lords to place a corrupt minister on trial. Warren Hastings spent seven years undergoing this process.

ANSWER: **impeachment**

[10] Bacon was offered up for impeachment to protect George Villiers, the Duke of Buckingham, who was a favorite of this monarch. This first Stuart King of England succeeded Elizabeth I.

ANSWER: **James I** [or **James VI** of Scotland; prompt on **James**]

[10] This man accused Hastings of "feeding on the indigent, the dying and ruined" during his four-day-long opening speech in the impeachment trial. As the leader of the "Old Whigs," he opposed Charles James Fox.

ANSWER: Edmund **Burke**

<Bentley, History - European>

16. Elijah Anderson studied black neighborhoods in this city to document the unspoken rules of public behavior for his book *Code of the Street*. For 10 points each:

[10] Name this city in which Alice Goffman studied the ways that policing created an environment of suspicion for young black men in *On the Run*. William Labov (**tuh-BOHV**) tested his curvilinear principle in five neighborhoods of this city.

ANSWER: **Philadelphia**, Pennsylvania

[10] This thinker extensively surveyed and mapped the black population of Philadelphia for his book *The Philadelphia Negro*. He also wrote *Black Reconstruction in America* and *The Souls of Black Folk*.

ANSWER: W. E. B. **Du Bois** [or William Edward Burghardt **Du Bois**]

[10] Wolfgang, Figlio, and Sellin studied the incidence of this kind of behavior in a large Philadelphia birth cohort. Proponents of "broken windows theory" argue that reducing everyday disorder can prevent this behavior.

ANSWER: **crime** [or **delinquency**; accept forms of the words **crime** or **delinquency** such as **criminality**; prompt on **deviance**]

<Kothari, Social Science - Sociology>

17. Fermat names a theorem stating that if an odd prime number  $p$  equals 1 modulo 4, then  $p$  equals the sum of two of these types of numbers. For 10 points each:

[10] Name these numbers, which are also the sums of two consecutive triangular numbers. All of these numbers equal the product of some integer with itself.

ANSWER: **squares** [or **squared** integers; or perfect **squares**]

[10] The "ordinary least squares" form of this statistical technique minimizes the sums of squared residuals to model the relationship between two quantitative variables.

ANSWER: linear **regression** [or OLS **regression**; prompt on **OLS**; prompt on **fitting** or line of best **fit**]

[10] Leonhard Euler solved this problem, named for a Swiss city, that asked for an exact sum of one over  $n$ -squared from one to infinity. Its solution is pi squared divided by 6.

ANSWER: **Basel** problem

<Damisch, Science - Math>

18. Bankers and silk workers belonged to one of the seven major institutions of this type in Renaissance Florence, while locksmiths joined one of the fourteen minor ones. For 10 points each:

[10] Identify these institutions that restricted who could produce certain goods and set quality standards.

ANSWER: trade **guilds**

[10] Florentines who worked in this profession were members of the Beccai guild. Annibale Carracci made two genre paintings inside the shop of these people, possibly made for a guild sign.

ANSWER: **butchers** [or **meat sellers**]

[10] People in this profession joined the Fornai guild. The French adjective *boulangère* (**boo-lawN-ZHAIR**) originally referred to items that people couldn't produce at home and thus brought to these professionals.

ANSWER: **bakers** [or **bread makers**]

<Bentley, Mixed/Other/General Knowledge>

19. In 2013, a literary prize named for this man was won by the Mozambican author Mia Couto (**mee-ah KOH-toh**). For 10 points each:

[10] Name this 16th-century author of a long poem about a man who takes Tethys as a lover after surviving an encounter with the giant Adamastor.

ANSWER: Luís (Vaz) de **Camões** (**kah-MOYSH**)

[10] Camões's most enduring work is this *ottava rima* epic poem, which mythologizes Vasco da Gama's journey to India.

ANSWER: *The **Lusiads*** [or *Os **Lusiadas***]

[10] In 1995, this Portuguese author won the Camões Prize and also published his novel *Blindness*.

ANSWER: José **Saramago** (**zhoo-ZEH suh-ruh-MAH-goo**) [or José de Sousa **Saramago**]

<Carson, Literature - European>

20. A grassroots protest against the Chinese government took place in 1976 when followers went to Tiananmen Square during this holiday to honor Zhou Enlai (**JOH en-lye**). For 10 points each:

[10] Name this Chinese holiday in which people remove weeds, add fresh soil, and make offerings at gravesites.

ANSWER: **Qingming** (**ching-ming**) Festival [or **Tomb-Sweeping Day**; or **Ancestor's Day**; prompt on Chinese Memorial Day]

[10] One ritual during the Qingming Festival involves burning this stuff. Red envelopes of newly printed forms of this stuff are often given as gifts during Chinese New Year celebrations.

ANSWER: paper **money** [or **cash**; or hell **notes**; or joss **paper**]

[10] Since 1979, a holiday involving these things has been split from the Qingming Festival. In Japan, people flock to these things between March and May as part of the Hanami tradition.

ANSWER: **trees** [or cherry **trees**; or **cherry blossoms**; or willow **trees**; anti-prompt on flowers]

<Bentley, RMP - Other Religion>

21. The documentary "The Scientist" traces the life of Raphael Mechoulam (**meh-shoo-LOM**), who performed the first total synthesis of this compound. For 10 points each:

[10] Name this molecule that competes with the neurotransmitter anandamide to activate the CB1 and CB2 receptors in the brain.

ANSWER: **THC** [or **tetrahydrocannabinol**]

[10] THC is the principal psychoactive component of this drug. Although it is illegal in most places in the world, Washington became the first US state to legalize this drug in 2012.

ANSWER: **cannabis** [or **pot**; or **weed**; or **marijuana**; or **hashish**; or **dope**]

[10] THC is the primary active ingredient in nabiximols (**na-BIX-ih-malls**), drugs that specifically treat this autoimmune disease. This disease causes symptoms such as neuropathic pain and spasticity by destroying the myelin sheath.

ANSWER: **multiple sclerosis** [accept **MS**]

<Ramswami, Science - Biology>



