



NSC 2018 - Round 04 - Tossups

1. The rate of this process for an infinite plane, infinite cylinder, or sphere can be determined using a Heisler chart. The ability of a material to resist this process is primarily determined by the rate of umklapp (OOM-clop) scattering processes. The denominator of the Biot (bee-OH) number contains a quantity that characterizes this process and is a transport coefficient involving a body's interior. This process can be explained microscopically due to diffusion of free electrons and vibration of (*) phonons. The rate of this process is proportional to the gradient in temperature, according to Fourier's law. This process can be explained by molecular collisions causing transfer of energy. For 10 points, name this form of heat transfer by direct contact, contrasted with radiation and convection.

ANSWER: thermal **conduction** [or heat **conduction**; prompt on heat transfer]

<Busse, Science - Physics>

2. This man, whose "tongue is like no other," is put on trial in the jungle near San Cristobal in a George Steiner novel. Sebastian Haffner wrote a 1978 book titled for "the meaning of" this man. Unity Mitford left England specifically to seek out this man, whose alleged fascination with feces and repressed homosexuality are discussed in Walter Langer's psychological profile of him. The historian Hugh Trevor-Roper authenticated the (*) diaries attributed to this man, which claimed that his secretary Martin Bormann was "indispensable" to his work. The book *Grey Wolf* claims that this man fled to Argentina, and was protected by the Peróns (per-OWNS) after he faked his death on April 30th, 1945. For 10 points, name this leader of Nazi Germany.

ANSWER: Adolf **Hitler** [prompt on A.H.]

<Jose, Mixed/Other/General Knowledge>

3. In his first political campaign, this man attacked his opponent's 47,000-dollar profit from a radio station and that man's lack of military service, ignoring the fact that the opponent was too old to volunteer. He lied about flying 32 bomber missions to win a Distinguished Flying Cross and faked a limp from a supposed crash landing. This ex-Marine defeated Robert (*) La Follette Jr. to win his highest office and likely coined his own nickname, "Tail-Gunner." William Fulbright voted against funding this man's permanent subcommittee in 1954; a year later, he was censured by the Senate. At a meeting in Wheeling, West Virginia, he claimed to have a list of subversives working at the State Department. For 10 points, name this Wisconsin senator, an ardent anti-Communist.

ANSWER: Joseph **McCarthy** [or Joseph Raymond **McCarthy**]

<Bentley, History - American>

4. This economist's observations on the distribution of property ownership were applied analogously by Joseph Juran to management theory. In sociology, this economist developed a theory of regime change based on the "circulation of elites." A condition named for this economist, which is asserted by the first theorem of welfare economics to hold for any competitive equilibrium, is generalized to allow for compensation of lost utility by the (*) Kaldor–Hicks criterion. This economist sometimes names a "law of the vital few" according to which most effects stem from a few causes, referred to as "80/20" principle. A condition in which no individual can be better off without making another worse off is called, for 10 points, what Italian's namesake "efficiency"?

ANSWER: Vilfredo **Pareto** [accept **Pareto** principle or **Pareto** rule or **Pareto** efficiency]

<Alston, Social Science - Economics>

5. Years after accidentally killing three villagers serving in this occupation during the war, the protagonist drunkenly wanders the country spending time with these people in Vonnegut's *God Bless You, Mr. Rosewater*. Men with this job demand a toll from a motorist before trashing his abandoned Model-T, prompting Coalhouse Walker to seize J. P. Morgan's library, in E. L. Doctorow's *Ragtime*. A character with a different version of this job believes that a car of teenagers killed his (*) 17-year-old neighbor, Clarisse McClellan. Men with that version of this job wear salamander insignias and use the Mechanical Hound in a novel in which their leader, Captain Beatty, is incinerated by the protagonist. For 10 points, Guy Montag has what job that, in Ray Bradbury's *Fahrenheit 451*, involves burning books?

ANSWER: **firemen** [or volunteer **fire fighters**; prompt on answers involving book burning]

<Brownstein, Literature - American>

6. Accusations that an object housed in these places at Hailes (hails) contained either duck's blood or saffron honey led a group of commissioners to seize that vial. Supporters of these places carried a banner that depicted arms and feet around a heart and chalice to represent the "Five Wounds of Christ." The "lesser" type of these places were the first to be targeted after a tour of visitation conducted by Thomas Cromwell. Robert Aske led (*) supporters of these places in the Pilgrimage of Grace uprising. A king who was given authority over these institutions by the Act of Supremacy appropriated their income as part of their 1536 "dissolution." Henry VIII disbanded many Cistercian and Benedictine examples of these places. For 10 points, name these institutions where monks live.

ANSWER: **monasteries** [or **abbeys**; or **religious houses**; accept synonyms such as **convents** and **cloisters**]

<Brownstein, History - European>

7. In this city, the architect Ricardo Bofill (boo-FEEL) converted an abandoned cement factory into the utopian apartment complex Walden 7. This city's "Block of Discord" is home to a private home that features a "skull" and "bones" façade. A building in this city has four spires each on both its Passion Façade and its Nativity Façade. A sculpture of a salamander made using mosaics and a (*) bench in the shape of a sea monster appear in this city's Parc Güell (gwail). The architect Josep Maria Jujol (zhoo-ZHOLE) added a wavy façade to the Casa Milà (KAH-zuh mee-LAH) in this city. For the 1929 International Exposition in this City, Mies van der Rohe (meese van der roh) designed a namesake chair, which he housed in a modernist pavilion. For 10 points, name this city that contains much of Antoni Gaudí's work, including the unfinished Sagrada Família.

ANSWER: **Barcelona**, Catalonia, Spain

<Jose, Arts - Architecture>

8. The SOX family of proteins is named for one part of a structure named for this letter. A protein named for this letter has "stress-resilience" functionality and is a 36-amino-acid neuropeptide found in the hypothalamus. A structure named for this letter is used to define human haplogroups because 95 percent of it does not undergo recombination. All humans with a structure named for this letter share it with a most recent common ancestor called (*) Adam. This letter is the abbreviation for the aromatic amino acid tyrosine. This letter also names a structure that contains genes to influence testis development. For 10 points, name this letter that names a chromosome that determines human sex, along with the X chromosome.

ANSWER: Y [accept Y chromosome; accept neuropeptide Y; accept Y RNAs]

<Ramaswami, Science - Biology>

9. A poem in this collection describes "burying lamps" and "tangling shadows" in the "deep solitude." The speaker of a different poem in this collection compares himself to "a spider, trying to hide" after noting that he has been marking "crosses of fire" on "the atlas of your body." The line "The night is starry and the stars are blue and shiver in the distance" is provided as an example of the title writings in a poem from this collection, whose final poem opens by asserting "the (*) memory of you emerges from the night around me" and repeatedly states "it is the hour of departure" and "in you, everything sank!" "Tonight I Can Write the Saddest Lines" is followed by a melancholy final entry in, for 10 points, what collection by Pablo Neruda?

ANSWER: *Twenty Love Poems and a Song of Despair* [or *Veinte poemas de amor y una canción desesperada*]

<Alston, Literature - World>

10. This god forces another character to sleep in a room filled with snakes, then in one filled with centipedes and wasps. This god has his hair tied to palace rafters by that other character, a suitor for his daughter, after the suitor is forced to find an arrow in a field that this god sets on fire. In another story, this god protects a princess by turning her into a comb and putting her in his hair. Some translations of the *Record of Ancient Matters* give this god the title "His (*) Swift-Impetuous-Male-Augustness." This god once birthed five men from a necklace belonging to his sister, to whom he later gave a sword that he pulled from the tail of the eight-headed dragon Orochi. For 10 points, name this Shinto god of the sea and storms, a brother of Amaterasu.

ANSWER: Susano'o (soo-sah-NOH-oh) [or Susanowo; or Takehaya Susanoo-no-Mikoto] (The suitor, Okuni-nushi, eventually won the hand of Susano'o's daughter Suseri-hime.)

<Carson, RMP - Other Myth>

11. One of these events is depicted on a grave marker decorated with a sun and a moon on one side and an army on the other, and is called the "doomsday stone." It is often wrongly claimed that Irish round towers were built due to these events, which led to the founding of Dublin as a longphort. The jeweled cover of an illuminated gospel book and the relics of St. Cuthbert were lost during one of these events. In order to stop these events from occurring in France, (*) Charles the Simple offered Normandy to Rollo. Christian Europe was thrown into panic when one of these events destroyed the abbey of Lindisfarne, the first of many monasteries in the British isles to be targeted by them. For 10 points, flat-bottomed longboats were used for what attacks by Scandinavian mariners?

ANSWER: Viking raids [accept any answers indicating attacks or invasions by Vikings or Norsemen]

<Brownstein, History - European>

12. The Imagist collection *Sea Garden* opens with a poem about one of these objects, which H.D. describes as "lifted in the crisp sand that drives in the wind." In a "Song," Edmund Waller bids one of these objects to "Go" to teach "one who wastes her time and me." The speaker of "The Passionate Shepherd to His Love" promises "beds of" these objects. In another poem, one of these objects is threatened by "the invisible worm that flies in the (*) night in the howling storm," which has found its "bed of crimson joy." A William Blake poem about syphilis is titled for a "sick" one of these objects, which Robert Herrick advised virgins to gather "while ye may." Robert Burns compares his love to a "red, red" example of, for 10 points, what kind of flower?

ANSWER: roses [or sea rose; or rosebuds; prompt on flowers or buds]

<Bollinger, Literature - British>

13. A bust of this artist by Benedetto da Maiano showed that he was best known at the time for a mosaic of Christ walking on water called the *Navicella*. This artist depicted the walls of Ephesus in a scene that shows St. John the Evangelist raising Dursiana for the Peruzzi Chapel. Petrarch praised the "ingenium" of this artist, who executed a painted crucifix for the Santa Maria Novella. The Star of Bethlehem, depicted as a comet, appears above his stage-like Adoration of the Magi in a (*) series of 37 frescoes made for a Paduan money lender. This artist was supposedly discovered and taught by Cimabue (chee-mah-BOO-ay). His best-known works were commissioned by Enrico Scrovegni. For 10 points, name this early Renaissance artist who made the frescoes for the Arena Chapel.

ANSWER: Giotto [or Giotto di Bondone; or Giottus]

<Bentley, Arts - Painting>

14. A one-time hydroelectric engineer who was elected president of this country controversially pardoned his former running mate, who had been imprisoned for planning a 1996 coup. Andres Rodriguez restored this country to democracy. A dictator who ruled this country from 1954 to 1989 cooperated with a larger neighbor on what was then the most powerful hydroelectric dam in the world and was a leader of its (*) Colorado Party. An earlier president of this country was the only Latin American head of state to die in battle, perishing at the Battle of Cerro Cora. Along its eastern border is the Itaipu (ee-tye-POO) Dam, built under Alfredo Stroessner (strohss-NAIR). For 10 points, during the War of the Triple Alliance, Uruguay, Brazil, and Argentina occupied what country's capital of Asunción (ah-soon-see-OWN)?

ANSWER: Paraguay [or Republic of Paraguay]

<Bentley, History - World>

15. This is the number of atoms of carbon plus atoms of oxygen in the ring of the smallest crown ether, and is the first number in its name. Atoms in both hexagonal close-packed and face-centered cubic structures have this coordination number. This is the number of carbon atoms in a lauryl (LAW-rill) group, which can be found in the surfactant (*) SDS. This is the total number of carbons in ethyl-propyl-heptane. The metal with this atomic number is found at the center of chlorophyll; that metal is magnesium. Pentane contains this many hydrogens, which is also the same number of hydrogens in glucose. For 10 points, identify the atomic mass for the most abundant carbon isotope.

ANSWER: twelve [or 12]

<Prieto, Science - Chemistry>

16. "Higher-order" examples of these things include "filter" and "bind," both of which allow for partial application. Christopher Strachey proposed treating these things as "first-class citizens," which allows them to be passed as arguments. The technique known as currying reduces the arity (AIR-it-ee) of these things to one, and is often used to optimize tail calls. Compilers can "inline" the (*) body of these things as an optimization to increase a program's speed. A programming paradigm named for these objects lacks side effects, and is exemplified by ML and Haskell. Methods and subroutines are examples of, for 10 points, what procedures in computer science that are similar to mathematical entities that map a domain onto a range?
ANSWER: **functions** [accept purely **functional programming**; accept partial **functions**, first-order **functions**, or higher-order **functions**; prompt on methods or subroutines or procedures or subprograms]
<Jose, Science - Computer Science>

17. Sam Stein and Gideon Resnick in the *Daily Beast* called out Tom Perez for not personally joining one of these events. Matt Bevin apologized for stating that these events would lead to sexual assaults. The Goldwater Institute criticized the constitutionality of one of these events, which included a large gathering at Chase Field. A 110-mile march was staged by participants in one of these events, who were the subject of the failed (*) Step Up plan to raise taxes on wind energy and tobacco. Participants in one of these events in Arizona wore red shirts. During one of these events in 2018, Katrina Ruff held up a sign outside of the Capitol in Oklahoma City reading "Thanks to West Virginia." For 10 points, name these events where educators walk off the job.
ANSWER: public **teacher strikes** [or **teacher work stoppages**; accept **teacher walk-offs** until "walk off" is read; prompt on strikes or public sector worker strikes; prompt on teacher rallies]
<Bentley, Current Events - United States>

18. A character in this novel describes seeing the punning headline "Red Sox Beat Yanks 5–4 On Chapman's Homer" thumbtacked to a door. The narrator of this novel describes the reign of Queen Yaruga, who drowned in an ice-hole during New Year's day festivities. This novel's narrator claims that he convinced his friend to write a work in four cantos that recounts the escape of a king nicknamed "The Beloved" after that friend escaped to (*) New Wye. The line "I was the shadow of the waxwing slain" is written by a character in this novel, who may have been killed by the assassin Jakob Gradus. A self-styled exiled royal from the land of Zembla named Charles Kinbote narrates, for 10 points, what Vladimir Nabokov novel centering on a 999-line poem by John Shade?
ANSWER: ***Pale Fire***
<Jose, Literature - European>

19. In Daniel's Dream of Four Beasts, the Ancient of Days had one of these objects that "was flaming with fire." One of these objects is described as the source of the river of water of life in the Book of Revelation, which details the four and twenty elders, seven spirits, and four beasts that surround it. A class of celestial beings that share their name with these objects transport one that is seen carried on a fiery chariot in a vision of Ezekiel. In Islam, God's (*) object of this sort is referred to as al-'Arsh, and is said to "includeth the heavens and the earth" in a popular verse from the Al-Baqara surah. In The Acts of the Apostles, God compares Heaven to one of these objects belonging to him and the earth to his footstool. For 10 points, name these pieces of furniture on which kings sit.
ANSWER: **thrones** [prompt on chairs or seats]
<Reinstein, RMP - Bible/Christianity>

20. In a symphonic poem by Dvořák, a mother teases her misbehaving son about one of these characters, who is represented by the bass clarinet. One of these characters sings the aria "Hurr Hopp Hopp Hopp" excitedly in the third act of an 1893 opera. In a symphonic finale whose English name mentions these characters, a tolling bell repeats the dirge C C G, bassoons and ophicleides (OFF-ih-clydes) play the *Dies Irae* (DEE-ess EE-ray), and a wild fugue depicts the "vulgar" round dance of these characters with a shrill, distorted version of the (*) *idée fixe* (ee-day FEEKS). An artist dreams about these sinister characters in the fifth and final movement of Berlioz's *Symphonie fantastique*. For 10 points, name these characters that include the antagonist of Engelbert Humperdinck's opera *Hansel and Gretel*.

ANSWER: **witches** [accept *The Noon Witch* or *The Noonday Witch* or *Polednice*; accept "Dream of a Witches' Sabbath"; accept Gingerbread Witch or Nibblewitch or hexe]

<Magin, Arts - Music>

21. This story describes a question that "the more we reflect upon," the "harder it is to answer," since it involves a study of the "devious mazes of passion" through the "human heart." A sequel to this story centers on a "deputation of five strangers" who try to learn this story's outcome by answering a riddle about "The Discourager of Hesitancy." An arena where a woman keeps her right arm on a "cushioned parapet" is described in this story's setting, which is a (*) "semi-barbaric" kingdom. The humorist Frank Stockton wrote this story, which concludes with a king's daughter making a decision about a man's fate after "anguished deliberation." For 10 points, name this story in which it is never revealed whether a youth is saved or eaten by the title animal.

ANSWER: "The **Lady or the Tiger?**"

<Jose, Literature - American>



NSC 2018 - Round 04 - Bonuses

1. The eschatology (**ess-kuh-TOLOGY**) of this religion involves a savior whose name means "One Who Brings Benefit," who is to be conceived when his mother bathes in a lake. For 10 points each:

[10] Name this religion. According to it, the end times will involve a comet impacting Earth and covering the earth in molten metal, which the resurrected dead will wade in to prove their righteousness.

ANSWER: **Zoroastrianism**

[10] Accounts of Frashokereti (**FRAH-shoh-kuh-REH-tee**), the Zoroastrian Last Judgement, claim that the righteous will experience the molten metal as this substance. Exodus calls Israel the land of this substance and honey.

ANSWER: **milk**

[10] The term "Frashokereti" comes from this ancient Eastern Iranian language, which was used to write the Gathas and lends its name to the primary religious text of Zoroastrianism.

ANSWER: **Avestan** [or **Zend**]

<Brownstein, RMP - Other Religion>

2. William Hazlitt proclaimed two characters in this play to be "so thoroughly hateful that we do not even like to repeat their names." For 10 points each:

[10] Name this Shakespeare play that opens with Goneril and Regan flattering their father, the title monarch, with declarations like "I love you more than words can wield the matter."

ANSWER: **King Lear**

[10] The critic A. C. Bradley argued that Goneril was the more evil of the two sisters, partly because she thus cuckolded this husband of hers. This character eventually joins with Cordelia's forces to retake Britain.

ANSWER: Duke of **Albany**

[10] On the other hand, Regan and her husband the Duke of Cornwall order this gruesome act to be performed on the Earl of Gloucester (**GLOSS-ter**); Cornwall says "out, vile jelly" as their servants perform it.

ANSWER: the **blinding** of the Earl of Gloucester [accept equivalents such as the **gouging** or **plucking** out of the Earl of Gloucester's **eyes**]

<Jose, Literature - British>

3. Answer the following about discoveries at Hubbard Brook Experimental Forest. For 10 points each:

[10] Studies at Hubbard Brook were the first to establish whole-ecosystem nutrient budgets for one of these systems, which includes the area of land where water drains into a single outlet.

ANSWER: **watersheds** [or **catchment areas**; prompt on **drainage basins**]

[10] Part of developing a nutrient budget involved measuring rates of this process, which is often done with mesh bags. Saprotrophic fungi accelerate this process, which is inhibited by anoxia in peat bogs.

ANSWER: organic matter **decomposition** [or organic matter **decay**]

[10] Long-term data from Hubbard Brook proved that sulfur dioxide and nitrogen oxide emissions could cause this phenomenon, which can deplete calcium in the soil and weather metal and stone structures.

ANSWER: **acid rain** [prompt on **rain**]

<Kothari, Science - Earth Science>

4. This event was sparked by thousands of people who rushed the Peruvian embassy trying to seek asylum. For 10 points each:

[10] Name this 1980 event in which large numbers of people, many of them released prisoners, boarded ramshackle crafts headed to Florida from the namesake town.

ANSWER: **Maríel** Boatlift [prompt on but DO NOT REVEAL Cuban Boatlift]

[10] The Marielitos were escaping from this Communist country, then ruled by Fidel Castro.

ANSWER: **Cuba** [or Republic of **Cuba**]

[10] This Peruvian president at the time said that his country would welcome asylum seekers. He shares his last name with a current head of state of a Latin American country with Aymara (**eye-MAH-rah**) ancestry.

ANSWER: Francisco **Morales**-Bermúdez Cerruti [accept Juan Evo **Morales** Ayma]

<Bentley, History - World>

5. Maria João Pires (**Maria zh'WOW PEER-ish**) once showed up on stage ready to play the wrong one of these pieces, looked baffled, and then played the correct one. For 10 points each:

[10] Name these 27 pieces for soloist and orchestra by a Classical composer. Mitsuko Uchida (**MEETS-koh oo-CHEE-dah**) recorded most of them, and the 21st is nicknamed *Elvira Madigan*.

ANSWER: **piano concerto** by Wolfgang Amadeus **Mozart** [prompt on partial answer]

[10] One of these figures gently ends the Romanze (**ro-MONT-suh**) of Mozart's Piano Concerto No. 20, before the Rondo suddenly opens with a Mannheim rocket, a quickly rising one of these broken chords in D minor. This Italian term derives from a tall, plucked instrument.

ANSWER: **arpeggio** (**ar-PEJ-ee-oh**) [prompt on Mannheim rocket or broken chord by asking for an Italian term]

[10] Uchida championed the Piano Concerto of this composer who fled Berlin for America, where he wrote a neoclassical Violin Concerto based on a 12-tone row. His Concerto for String Quartet was "freely composed" based on Handel's Concerto Grosso.

ANSWER: Arnold **Schoenberg**

<Lifshitz, Arts - Music>

6. Two novels in this series featured the minor character Tulla Pokriefke, whose son Paul is the narrator of the author's later book *Crabwalk*. For 10 points each:

[10] Name this series that consists of the aforementioned *Cat and Mouse* and *Dog Years*, as well as its first entry, *The Tin Drum*.

ANSWER: **Danzig Trilogy** [or die **Danziger Trilogie**]

[10] The three books of the *Danzig Trilogy* were written by this German author.

ANSWER: Günter **Grass** [or Günter Wilhelm **Grass**]

[10] Grass's prose poem "What Must Be Said" criticized Germany's delivery of a submarine to this country, which banned Grass from entering it in response. The novel *A Tale of Love and Darkness* is by an author from this country named Amos Oz (**ah-MOSE OHZ**).

ANSWER: **Israel**

<Carson, Literature - European>

7. In 1941, a general of this ethnicity named Slavko Kvaternik seized control of his country's capital. For 10 points each:

[10] Identify this ethnicity shared by Ante Pavelić (ON-tay PAH-veh-leech), who declared himself *Poglavnik*, or dictator, shortly after Kvaternik's coup.

ANSWER: **Croat** [or **Croatian**; or **Hrvati**]

[10] Following World War II, Ante Pavelić fled to this country, where he was killed by a Montenegrin in 1957. Adolf Eichmann (IKE-mahn) was captured in this Latin American country, which has a sun on its flag.

ANSWER: **Argentina** [or **Argentine Republic**]

[10] The Croatian general Josip Jelačić (YO-seep YAY-la-cheech) helped put down a rebellion in this modern-day country during the Revolutions of 1848. In 1956, the government of this then-Soviet republic unsuccessfully attempted to leave the Warsaw Pact.

ANSWER: **Hungary** [or **Magyarország**]

<Bentley, History - European>

8. A study by Anderson et al. showed that college students were 40 percent more likely to punish someone if they were subjected to violent examples of these things beforehand. For 10 points each:

[10] Identify these things whose purported link to violent behavior in children prompted Congressional hearings led by Joe Lieberman in 1993.

ANSWER: **video games** [or **computer games**; or **electronic games**; or **phone games**; accept answers indicating violent **video games** or similar; prompt on **games**]

[10] Studies have shown that flashbacks and other symptoms of this condition can be lessened by playing *Tetris*. This condition is common in soldiers and was once called "shell shock."

ANSWER: **PTSD** [or **post-traumatic stress disorder**]

[10] This psychologist celebrated educational games in her 1983 book *Mind at Play*. She convinced 30 percent of participants they had been lost in a mall as children in research on the misinformation effect.

ANSWER: Elizabeth **Loftus** [or Elizabeth Fishman **Loftus**; or Elizabeth **Fishman**]

<Bentley, Social Science - Psychology>

9. Gottfried Leibniz wrote a dissertation on this field of mathematics, which has "enumerative" and "existential" branches. For 10 points each:

[10] Name this branch of discrete math, primarily concerned with counting and finite structures. Problems in this field often use the binomial coefficients.

ANSWER: **combinatorics**

[10] Many problems from this general gambling card game, such as the number of ways to be dealt a royal flush, can be modeled using combinatorics.

ANSWER: **poker** [accept more specific forms of poker]

[10] If you want to determine the number of ways to partition your poker chips, you can model them using the diagrams named for this British mathematician. When those diagrams are marked with numbers, they become his namesake "tableaux" (**tab-LOH**), which are used in representation theory.

ANSWER: Alfred **Young** [accept **Young** diagrams or **Young** tableaux]

<Minarik, Science - Math>

10. Gustave Courbet wrote a manifesto on this artistic style for his 1855 exhibition at a namesake pavilion. For 10 points each:

[10] Name this style that rejects Grand Manner painting in favor of showing "things as they are" and a focus on everyday subject matter. Naturalism was a science-inspired offshoot of this style.

ANSWER: **realism** [or **realist**; or *Le réalisme*]

[10] Courbet painted a crucifix on a tall pole behind a reading priest in a realist depiction of one of these events in his home town of Ornans (**or-NAWN**).

ANSWER: **burial** [or **funeral**]

[10] This artist deployed a style bridging realism and impressionism in a painting of three shirtless men at work, *The Floor Scrapers*, and other canvases such as *The Europe Bridge*.

ANSWER: Gustave **Caillebotte** (**kYE-BUTT**)

<Bentley, Arts - Painting>

11. This character worries that her ears are sticking out because her wavy hair was flattened by the rain after choir practice. For 10 points each:

[10] Name this girl who insists that Sergeant X write her a short story while talking to him in a tearoom in a short story titled for her that appeared in *Nine Stories*.

ANSWER: **Esmé**

[10] One of the stories collected alongside "For Esmé – With Love and Squalor" in *Nine Stories* depicts Seymour Glass's encounter with the child Sybil Carpenter on the beach, where he tells her about these imaginary aquatic animals.

ANSWER: **bananafish**

[10] This reclusive author of *Nine Stories* wrote *The Catcher in the Rye*.

ANSWER: J. D. **Salinger** [or Jerome David **Salinger**]

<Grames, Literature - American>

12. The Olympia Brass Band can be seen leading one of these events in the James Bond film *Live and Let Die*. For 10 points each:

[10] Identify these events that have been held for luminaries such as Professor Longhair. These events often start with dirges such as "Nearer My God to Thee" and end with more up-tempo songs like "When the Saints Go Marching In."

ANSWER: **jazz funerals** [prompt on **funerals**; accept but DO NOT REVEAL **New Orleans funeral**]

[10] Jazz funerals are a tradition in this Louisiana city, which also hosts a celebrated Mardi Gras festival along St. Charles Avenue and Canal Street.

ANSWER: **New Orleans**

[10] The Café du Monde in New Orleans is known for serving these pastries, which have a pile of powdered sugar sprinkled on top of them. This food is the official donut of Louisiana.

ANSWER: **beignet** (**ben-YAY**)

<Bentley, Geography - United States>

13. Answer the following about Greek oracles, for 10 points each:

[10] Priestesses called "Pythia" served as oracles of Apollo in his temple at this location, which was also home to the *omphalos* stone that was thought to mark the center of the world.

ANSWER: **Delphi**

[10] The *Argo* partly made of oak timbers taken from the grove at this location, which was home to an oracle of Zeus that was likely the oldest Hellenistic oracle.

ANSWER: **Dodona**

[10] Greek settlers gave the name "Zeus Ammon" to the dedicatee of a temple at Siwa in what is now this country. The god Serapis was introduced in what is now this country to unify Greeks and its native inhabitants.

ANSWER: (ancient) **Egypt** [or **Misr**]

<Carson, RMP - Greco-Roman Myth>

14. These structures can be classified into prototunicate (**PROTO-tunic-it**) and bitunicate (**BI-tunic-it**) based on the structure of their walls. For 10 points each:

[10] Name these sac-like reproductive structures that usually contain eight spores named after them. A fruiting body can contain these structures or basidia.

ANSWER: **ascus** [or **asci**]

[10] Members of *Ascomycota*, a division of this kingdom, have asci. Other divisions of this kingdom include Basidiomycota (**buh-SID-ee-oh-my-KO-ta**) and Zygomycota, which include mushrooms and molds, respectively.

ANSWER: **fungi** [or **fungus**]

[10] A particularly famous member of *Ascomycota* is this species of red bread mold. Experiments with this model organism led Beadle and Tatum to propose the "one gene, one enzyme" hypothesis.

ANSWER: *Neurospora* **crassa** [prompt on *Neurospora*]

<Grames, Science - Biology>

15. Antoinette Burton edited a volume about "ten books" that shaped this empire, which included Charlotte Brontë's *Jane Eyre* and Charles Pearson's *National Life and Character*. For 10 points each:

[10] Name this "empire on which the Sun never sets." Its territories included the Raj in India.

ANSWER: **British** Empire [or the **United Kingdom**; or the **UK**]

[10] Burton's volume argues that Thomas Macaulay's *History of England* shaped the British Empire by offering an interpretation of history described by this word, which holds that Britain was always advancing towards freedom. This word names the 18th-century political party of Robert Walpole and Pitt the Elder.

ANSWER: **Whig** interpretation of history [or the **Whigs**; or **whiggish** history]

[10] This author's *Scouting for Boys* is cited for defining the way the British approached different social groups. This man fought at the Battle of Mafeking (**MAF-eh-king**) and founded the Boy Scouts.

ANSWER: Robert **Baden-Powell** [or Robert Stephenson Smyth **Baden-Powell**, 1st Baron Baden-Powell]

<Jose, History - European>

16. This character is given the Seven Star Precious Sword as part of a plot to assassinate Dong Zhuo (**dong jwoh**), but when his target spots him in a mirror, this character instead kneels down and presents the sword as a gift. For 10 points each:

[10] Name this historical figure, who was cast as a villain in opposition to the virtuous Liu Bei (**l'yoh bay**) in a 14th-century novel.

ANSWER: **Cao** Cao (**tsao tsao**) [or Cao **Mengde**]

[10] Cao Cao is cast as a villain in this historical novel, which includes episodes about the Peach Garden Oath and the Battle of Red Cliffs in its retelling of the historical conflict between the states of Wei, Wu, and Shu.

ANSWER: ***Romance of the Three Kingdoms*** [or ***Sanguo yanyi***]

[10] *Romance of the Three Kingdoms* is traditionally attributed to this author, who is also generally credited with editing the novel *The Water Margin* by Shi Nai'an (**shurr nye-AHN**).

ANSWER: **Luo** Guanzhong [or **Luo** Ben; accept **Huhai** Sanren]

<Carson, Literature - World>

17. In 1993, Varèse Sarabande released Jerry Goldsmith's recording of the original Alex North score for this film, which its director abandoned for classical music. For 10 points each:

[10] Name this Stanley Kubrick film whose soundtrack includes *On the Beautiful Blue Danube*. It opens with the iconic fanfare from *Also Sprach Zarathustra* (**ALL-zoh shprock tsah-rah-TOOS-trah**).

ANSWER: **2001: A Space Odyssey**

[10] This Hungarian composer wasn't thrilled that the rights for his pieces *Requiem* and *Atmosphères*, which were to be used on the *2001* soundtrack, were negotiated without his full knowledge.

ANSWER: Gyorgy **Ligeti** (**JURJ LIG-uh-tee**) [or György Sándor **Ligeti**; or **Ligeti** György Sándor]

[10] Astronauts eating sandwiches on the lunar shuttle to the monolith interrupt this ambient micropolyphonic piece by Ligeti. Its 16-member choir sings a text from the Requiem Mass using 4-, 5-, and 6-tuplets and tone clusters, at one point forming a deep E-flat minor chord.

ANSWER: ***Lux Aeterna***

<Bentley, Arts - Misc>

18. Answer the following about the Jansenist philosopher Antoine Arnauld (**ar-NOH**), for 10 points each:

[10] Arnauld's "Fourth Objections" to this work by Descartes (**day-CART**) dispute a passage in which Descartes writes that if cold is the absence of heat, the positive idea of cold must be a mistake. This work introduced the "evil demon" thought experiment.

ANSWER: ***Meditations on First Philosophy*** [or ***Meditationes de prima philosophia***; or ***Méditations Métaphysiques***]

[10] Arnauld and Pierre Nicole wrote the *Port-Royal* textbook on this subject, also called *The Art of Thinking*. This formal subject is concerned with the methods of inductive and deductive reasoning.

ANSWER: **logic**

[10] This fellow Jansenist philosopher defended Arnauld's theology in the *Provincial Letters*, written under the pseudonym Louis de Montalte.

ANSWER: Blaise **Pascal**

<Kothari, RMP - Philosophy>

19. Four buildings of this type in Manhattan have been nicknamed the Tombs, owing to the original's resemblance to an Egyptian mausoleum. For 10 points each:

[10] Identify these types of buildings, which served similar functions as a brig on a ship.

ANSWER: **jail** [or **prison**; or **correctional facility**; or **penitentiary**; or **detention** complex; or hall of **justice**]

[10] The Tombs was located in this New York neighborhood, built upon a polluted pond and infamous for its slums. It borders the Bowery and is named for the intersection of Park, Anthony, and Orange streets.

ANSWER: **Five Points**

[10] Murderer William J. Sharkey escaped The Tombs by performing this action. Newspaper cartoonists had a field day depicting Jefferson Davis after he was apprehended while doing this in Irwinville, Georgia in 1865.

ANSWER: **dressing up as a woman** [or **crossdressing**; or wearing **women's clothes**; or wearing his **wife's overcoat**]

<Bentley, History - American>

20. Elmer A. Sperry incorporated one of these devices in the first airplane autopilot system. For 10 points each:

[10] Name these devices, common examples of which consist of a large rotor suspended inside of three gimbals.

ANSWER: **gyroscope** [or mechanical **gyroscope**]

[10] The gyroscope was invented by this French physicist, who installed one of his namesake pendulums inside the dome of the Paris Panthéon. This man's pendulums can show the Earth's rotation.

ANSWER: Jean **Foucault** (foo-KOH) [or Jean-Bernard-Léon **Foucault**]

[10] Gravity Probe B used four gyroscopes to test general relativity's predictions of the geodetic and frame-dragging effects, which are both forms of this phenomenon.

ANSWER: **precession** [accept de Sitter **precession** or Lense–Thirring **precession**]

<Bentley, Science - Physics>

21. D. N. Jha received death threats for publishing a book documenting instances of this practice in ancient India. For 10 points each:

[10] Name this practice that many Hindus consider taboo. Marvin Harris argued for a functionalist explanation of that taboo, claiming that farmers who engaged in it would have less steady access to milk, labor, and dung for fuel.

ANSWER: **eating beef** [or **slaughtering cows**; accept equivalents; prompt on **eating meat**, **eating animals**, **slaughtering animals**, **carnivorism**, or equivalents]

[10] Bans on cattle slaughter in many Indian states are supported by proponents of this ideology, the dominant form of Hindu nationalism in India. This term was coined by Vinayak Damodar Savarkar and is part of the BJP's platform.

ANSWER: **Hindutva**

[10] Jains, as well as some Buddhists and Hindus, avoid slaughtering animals or eating meat due to adherence to this principle of non-violence.

ANSWER: **ahimsa**

<Kothari, RMP - Other Religion>

