

2016 “stanford housewrite”

Edited by Stephen Liu

Written by Austin Brownlow, Stephen Liu, Benji Nguyen, Nathan Weiser, James Bradbury, Kyle Sutherlin, Alex Freed, Jennie Yang, Nikhil Desai, and Martina Fu

PACKET 5

TOSSUPS

- In 2013, a research team led by Peter Timms mapped this animal’s genome and sequenced the “holy grail” of its immune system, interferon gamma. Gilbert Price studied fossils of these animals to prove that they did not descend from, but rather lived contemporaneously with, a related “giant” species that went extinct at the end of the Pleistocene epoch. These animals are currently suffering from a massive outbreak of chlamydia, which causes an infection called “dirty tail”. They’re not gibbons, but 100 percent of the northern population of these animals is infected with a namesake endogenous (*) retrovirus. The male of this animal possesses velar vocal folds that enable it to produce bellows at anomalously low frequencies for its size. *Phascolarctos cinereus* is the species name of this animal, which has a seven foot long caecum that enables it to digest its sole food source. For 10 points, name these marsupials that sleep about 20 hours a day and eat eucalyptus leaves.**
ANSWER: koalas [accept *Phascolarctos cinereus* or *P. cinereus* before mentioned]
- This author wrote about prophets returning from heaven “less discouraged and melancholy, because love and peace are holy and are coming to town.” A “woman soldier” in that poem shouts at the speaker that she killed him, but he replies, “You killed me...and I forgot, like you, to die.” This poet of “In Jerusalem” wrote that he loves “ancient love poems that guard the sick moon from smoke” in a work in which inadequacy of language causes the death of an animal that became “bloodied with my poem.” A prose poem by this man takes place on Hiroshima Day in the bombed-out streets of Beirut, and is entitled (*) *Memory for Forgetfulness*. This poet wrote a work in which the speaker claims not to hate people or encroach, but warns to beware of his hunger and his anger. The number “fifty thousand” is printed on the title object of that poem, which repeats, “Write down! I am an Arab.” For 10 points, name this 20th century Palestinian poet who wrote “Identity Card.”**
ANSWER: Mahmoud Darwish
- One member of this race is a journalist who foolishly takes pictures of a creature known as the “Yoob,” which tries to eat her before immediately spitting her out. Another member of this race crafts the haiku “Like the moon over/the day, my genius and brawn/are lost on these fools.” One hoodie-wearing member of this race of creatures mistakenly believes he has discovered the skeleton of his father, but soon realizes that it is instead the father of a different member of this race, an archaeologist named (*) Kolorado. Another member of this race known as “The Quick” will award you a star if you beat him in a race. The leader of this race frequently rides around in a copter decorated with a clown face, and that leader is sometimes joined by a group of seven siblings who include Ludwig, Iggy, and Lemmy. The “red” version of these creatures do not walk off cliffs, unlike the ones with green shells. For 10 points, identify this race of turtle-like creatures who antagonize Mario.**
ANSWER: Koopa Troopa [generously prompt on things like the turtle-like creatures from Mario]
- This character names her father “The Prince of Darkness” and compares him to a whiskey distiller named Bodger, but later admits that to turn her back on him is to turn her back on life. At the end of the play this character appears in, she runs to her mother and latches onto her skirt, regressing into a childlike mentality. This character’s love interest bangs a drum throughout the second act and continues to do so during a joyous march while this character has a breakdown. This character’s love interest is variously given the nicknames “Dolly” and “Euripides,” and eventually reveals that he is a (*) foundling, qualifying him to inherit a business. A scoundrel named Bill Walker accosts this character’s workplace, where he strikes Jenny Hill with his hand. This character is engaged to a scholar of Greek named Adolphus Cusins and is the daughter of an arms manufacturer. For 10 points, name this woman who leaves the Salvation Army, the title character of a George Bernard Shaw play.**
ANSWER: Major Barbara Undershaft

5. The stability of one type of these devices is analyzed using a necktie diagram. Another type of these devices is subject to the Touschek effect. The Keil-Schnell stability criterion and Robinson damping criterion are design constraints for these devices, which may incorporate Chasman-Green, DBA, or FODO lattices. The Courant-Snyder invariant is a constant of motion that depends on these devices' Twiss parameters, which characterize an ellipse in phase space with area equal to π times (*) emittance. Chromaticity correction is a technique for reducing the frequency spread of these devices' betatron oscillations. These devices use quadrupole magnets for strong beam focusing and produce synchrotron radiation if they are circular in shape. For 10 points, name these devices exemplified by SLAC and the Large Hadron Collider.

ANSWER: particle accelerators [anti-prompt on "synchrotrons" or "storage rings"]

6. In one of these people's stories, a black rock is tossed into a black lake and sinks instead of floating, signaling the death of a hermaphrodite. That dead figure becomes the first soul claimed by the sun and moon after they assume their roles by entering into a piece of turquoise and a white shell, respectively. In another story from these people, men pleasure themselves with animal meat and women with feathers, horns, and stones during a time when the sexes are living apart on opposite sides of a river. According to these people, humans came to this world by climbing up a reed to flee the (*) flooded worlds of the Holy People, Swallow People, and Air-Spirit People. This Native American tribe's stories describe the trickster First Angry and siblings who own an eagle-feather talisman and kill monsters with arrows made of thunderbolts. For 10 points, name this Native American tribe whose stories tell of the Hero Twins and Spider Grandmother and who live in a reservation in the Four Corners area.

ANSWER: Navajo [accept Diné or Naabeehó]

7. At the bottom of a landscape named for one of these objects, a row of white curves is separated by a tree from a set of angles and lines. In that painting, a village and the fields are depicted as a tumbling array of colored geometric sections below one of these objects, which is marked with the flags of France and the Red Cross. In another of these objects, a group of faceless blue-cloaked figures crouch under a cannon and aim their rifles. A frontal view of one is visible through the leftmost arch of an arcade in *The Anxious Journey*, while another appears in the distant background of a painting depicting a classical bust next to a (*) bunch of bananas. These subjects of several paintings by Gino Severini also often appear behind long red-brick walls in works by Giorgio de Chirico, like *The Uncertainty of the Poet* and *Gare Montparnasse*, which depicts a station for them. For 10 points, name these long vehicles that spew clouds of smoke in many paintings, including Monet's *Gare Saint-Lazare*.

ANSWER: trains [accept synonyms]

8. Traditional deities in this polity's pantheon included the moon god Algibôl and the sun god Malakbêl, as well as Yarhibol, who guarded its central spring of Efqa. According to the *Historia Augusta*, Apollonius of Tyana appeared to an emperor invading this polity to ask him to spare his home city. While serving as governor of Egypt, Tenagino Probus died fighting the forces of this polity, who were led by Septimius Zabdus. Maconius assassinated a ruler of this polity who called himself the King of Kings, after which his queen converted it into an (*) empire. The author of *On the Sublime*, Cassius Longinus, was a close advisor to a ruler of this polity who lost the Battles of Immae and Emesa while serving as regent for her son Vaballathus. That wife of Odaenathus, the first ruler of this state, was captured by Aurelian and paraded through Rome in golden chains as part of a triumph. For 10 points, name this state based around an ancient Syrian city that was ruled by Zenobia.

ANSWER: Palmyra [or Palmyrene Empire; or Palmyrene Kingdom]

9. The opening tin whistle solo to this work's second movement is typically played by the piccolo instead. In this work's penultimate movement, solo violin pianissimo sixteenth notes represent tears shed for the title character's death. This suite includes an extended trumpet solo in 5/8 time modeled on Mexican *jarabe* dancing. This suite's third movement quotes folk songs like "Goodbye, Old Paint" and "Streets of Laredo" that grow increasingly dissonant until a bass drum thud, which represents the shooting of the title character's mother. This suite splits the orchestra into four rival sections that repeat fragments designed to mimic (*) bullets in the movement "Gun Fight." This suite begins and ends with an "Open Prairie" theme depicting pioneers travelling through the American West. Its composer experimented with similar themes in his later ballet *Rodeo*. For 10 points, name this Aaron Copland ballet suite about the life of a Wild West outlaw.

ANSWER: Billy the Kid

10. A leader of a group of enemies of these people murdered and ate the brain of the Italian priest Tullio Favali. Vigilante bands called the *Ilaga* formed to fight these people, whose suicidal warriors are called *juramentados*. Jibin Arula was the sole survivor of a massacre of a group of these people who were recruited to take part in Operation Merdeka. Pirate attacks by these people on Spanish ships prompted Narciso Clavería y Zaldúa to send the Balanguingui expedition. Only six of these people out of nearly one thousand survived the First Battle of (*) Bud Dajo, which took place during the governorship of Leonard Wood. Mark Twain later dubbed that battle a “Crater Massacre” named for these people. Nur Misauri is the founder of a secessionist movement for these people that spawned the terrorist organizations Abu Sayyaf and a namesake Islamic Liberation Front. For 10 points, name this Muslim group whose National Liberation Front has run a long insurgency in the southern Philippines.
ANSWER: Moro people [accept Filipino Muslims or word forms before “Muslim” is read; prompt on “Filipinos” or “Muslims”]
11. Description acceptable. This event is the subject of a 55-line fragment from the Book of Cerne that is the earliest extant liturgical drama. Eastern Orthodox priests mark this event by changing the vestment colors from black to white and strewing laurel leaves around the church. 1 Peter 3:19 (“first Peter three-nineteen”) contains the only explicit Biblical reference to this event. Charinus and Leucius give eyewitness accounts of this event to the Sanhedrin in a work that is framed as a report to Claudius written by Pontius Pilate. Chapters 12 through 20 of the apocryphal Gospel of (*) Nicodemus are the primary source for the traditional narrative of this event, which is commemorated on Holy Saturday. This event’s central figure spoke to “the spirits in prison” before ascending to Heaven along with Adam and other Old Testament patriarchs. For 10 points, name this event that took place in between the Crucifixion and Resurrection while the body of Jesus lay in its tomb.
ANSWER: the Harrowing of Hell [accept answers that describe Jesus descending to the underworld]
12. This philosopher’s discussion of the “inverted world” was analyzed in a series of five hermeneutical studies by Gadamer titled after one of this man’s chief formulations. Another thinker accused this philosopher of panlogism and sought to distinguish between useful and useless aspects of his philosophy. Karl Lowith’s history of Western philosophy is titled “From [this man] to Nietzsche,” and a separate thinker stressed that it was important to understand this philosopher’s system as “circular.” That aforementioned thinker’s interpretation of this philosopher shaped the ideas put forth in Francis (*) Fukuyama’s *The End of History and the Last Man*. This man was the chief influence on Marx’s theory of historical materialism, and Alexander Kojève wrote a book on how to read this man’s most famous work, which describes historical conflicts between the thesis and antithesis. For 10 points, name this German who formulated the “master-slave dialectic” in *The Phenomenology of Spirit*.
ANSWER: Georg Wilhelm Friedrich Hegel
13. The planner of this event was later expelled from his own organization after Harold Covington exposed him as a pedophile. Aryeh Neier was replaced as executive director of an organization by Ira Glasser after the organization’s legal defense of this event led to a drop in fundraising. The aftermath of this event produced a judicial ruling holding that the use of a certain symbol did not constitute “fighting words.” To prove that this event would cause violence, city attorneys had Sol Goldstein testify that he would attack this event’s leader. Frank Collin organized this event after his group was denied the use of (*) Marquette Park. Almost one third of the ACLU’s membership resigned after it brought a First Amendment challenge against an injunction that barred this event, forcing a replacement event to occur in nearby Chicago. For 10 points, name this 1977 march planned by an American Neo-Nazi group that was originally planned to take place in a predominately Jewish Illinois suburb.
ANSWER: 1977 Skokie march [or the planned National Socialist Party of America march in Skokie; accept equivalents to “march” like “demonstration” or “rally”]

14. In a less constrained version of this system, the distortion constant D equals four times B cubed over ω squared. Energy levels in this system are split by $2B$, where B equals Planck's constant over the quantity $8\pi^2 c I$. Molecules are classified as spherical, symmetric, or asymmetric variants of this system in microwave spectroscopy, as this system generally absorbs light in the microwave region. Spectra containing P and R branches can be analyzed by allowing for (*) vibrations to be coupled to the motion described by this system; those branches correspond to the ΔJ equals plus or minus one selection rule for this system. The wavefunction for this system equals a normalized complex exponential times an associated Legendre polynomial. For 10 points, name this quantum mechanical model with a wavefunction fully described by spherical harmonics, which treats a diatomic molecule as having a fixed bond length and only rotational motion.
ANSWER: rigid rotor [or rigid rotator]
15. Gordon Jacob composed a suite named after this composer that "freely transcribes" six of his pieces for orchestra, though its more famous version is for symphonic wind band. This composer's *Mass for Four Voices* was one of three settings he composed for the Mass Ordinary. This composer's setting of "Ave verum corpus" is written in the G Aeolian mode and interestingly stresses the word "verum" instead of "corpus." One of this composer's collections contains a nine-part piece that begins with the section "the soldier summons" and concludes with "the retreat." That piece, "the battell," is sandwiched between "the march before the battell" and "the (*) galliarde for the victorie." This man composed a book of keyboard music that contains ten pavans and ten galliards. Like his teacher, this composer contributed 17 motets to a collection of pieces dedicated to Elizabeth I. For 10 points, name this English composer of *My Ladye Nevells Booke* who studied under Thomas Tallis.
ANSWER: William Bvrd
16. An essay on works in this category compares them to Mallarmé's idea of the "total book" and describes them as "on a level with the ancient talismans." That essay argues that there is a personal element in defining what qualifies in this category, as exemplified by the author's antipathy toward Rousseau and an art historian's love for *The Pickwick Papers*. A quote about Socrates learning a flute song just before drinking hemlock ends that essay on these works, which we engage with "only out of love," and not "duty or respect." The distinction between "reading" and "rereading" is offered as one definition for works of this type, which can also be said to be works that have "never (*) finished saying what [they have] to say." Italo Calvino wrote an essay answering the title query, "Why Read [these works]?" For 10 points, name this broadly defined body of literature, ranging from Thucydides to Tolstoy, which is considered especially important to and established within a culture or language.
ANSWER: the Classics
17. The phase space for these objects is the simplest possible example of a four-point non-commutative phase space. In a Haskell API for these objects, they are the most primitive instance of a typeclass that defines `make`, `measure`, `conditional`, and `let` methods, and they are wrapped by the `QIO monad`. In 2009, Monz et al. realized a Toffoli gate over these objects, which allows universality when coupled with any nontrivial gate that uses one of them. A computation that uses an auxiliary one of these objects, called an ancilla, is (*) unitary if it returns the ancilla to its original state. The first step when using these objects, as in Deutsch's algorithm, is often to apply the Hadamard transformation, which takes N of these in their base states into a linear combination of 2 to the N orthogonal states by rotating the Bloch sphere by π radians. Shor's algorithm is competitive with about 600 of these objects. For 10 points, name these units of information in quantum computing.
ANSWER: qubits
18. The Earl of Leitrim was murdered by assailants who were unhappy with his control over this resource. Much of James Godkin's research and writing dealt with issues arising from this resource, which was the subject of protests interrupted by the Mitchelstown Massacre. A 1902 conference held at Mansion House produced the Wyndham Act, which provided for easier purchase of this resource. An organization named for this resource organized a program of ostracism against Charles Boycott, who represented Lord Erne's interests in it. The (*) Three F's were a set of demands regarding this resource, whose reform was the goal of the Plan of Campaign. A league named for this resource was led by Michael Davitt and Charles Parnell, and it names a period of social unrest in late 1800s Ireland. Conflict over this resource often arose due to absentee owners, and it was earlier subjected to the process of enclosure. For 10 points, name this resource that can derive revenue from rent and farming.
ANSWER: land [accept real estate, real property, and other names for land as a resource; prompt on "property"]

19. An essay from Cynthia Ozick's *Fame & Folly* discusses how this author was haunted by his father's vision of a "damned shape squatting invisible to me," which helped shape this author's understanding of the "sacred terror." In a novel by this author, two characters go on a secret date by taking a tour of the local university, where they admire a memorial to students who died in the Civil War. In another novel by this author, a rich shoemaker's son named Mitchy marries Aggie while his true love goes to live as Mr. Longdon's ward rather than marrying. In that work by this author, (*) Vanderbank gives up on marrying Nanda Brookenham because she is too modern. This author created the aged Miss Birdseye, who acts as a mentor for two characters in a novel that popularized the term for two cohabiting women. In that novel, Basil Ransom quarrels with the suffragette Olive Chancellor over the affections of Verena. For 10 points, name this author of *The Awkward Age* and *The Bostonians*.
ANSWER: Henry James

20. Along with Julio Elias, this thinker argued that a free market for organs would help reduce scarcity for organ transplants. This thinker also worked with Jacob Mincer to formulate a theory of analyzing consumption that focuses on the household level rather than the individual level. This man's article on crime and punishment includes an anecdote about having to choose between legally parking in an inconvenient garage and illegally parking in a closer spot. This pioneer of New Home Economics co-names a model with Kevin Murphy that explains that (*) smokers keep using cigarettes in order to maximize discounted utility. This economist postulated that even selfish people would help their family if it was in their self-interest. In addition to developing a model for rational addiction, this economist wrote the book *Human Capital* and formulated the "rotten kid theorem." For 10 points, name this Nobel laureate from the University of Chicago who runs an economics blog with Richard Posner.
ANSWER: Gary Becker

BONUSES

1. Shots of a sundial overlooking a courtyard and of a planet eclipsing another are separated by the image of ash falling in front of one of this artist's paintings, which then curls up in flames. For 10 points each:
[10] Name this Flemish artist whose *The Hunters in the Snow* is a recurring theme in Lars von Trier's *Melancholia*. Various figures in this man's *The Procession to Calvary* are explored in Lech Majewski's *The Mill and the Cross*.
ANSWER: Pieter **Breughel** the Elder
[10] In this film directed by Andrei Tarkovsky, *The Hunters in the Snow* and other Breughel works hang on the wall of a room in a space station and appear in a scene in which the protagonist, his wife, and a candle levitate.
ANSWER: **Solaris**
[10] A series of vignettes featuring pale-faced characters make up the Breughel-inspired *A Pigeon Sat on a Branch Reflecting on Existence* by this Swedish director, whose "Living" trilogy also includes *Songs from the Second Floor*.
ANSWER: Roy **Andersson**
2. Answer the following about notable Asian airports, for 10 points each:
[10] Until this city relocated its airport, landing planes were forced to fly close to the high rises of its Kowloon neighborhood. Great Britain transferred control of this city to China in 1997.
ANSWER: **Hong Kong**
[10] This Renzo Piano-designed airport is located on an artificial island off the coast of Honshu. It shares its name with the region of Honshu that contains Osaka, Kobe and Kyoto.
ANSWER: **Kansai** International Airport
[10] Landing at this country's sole international airport, Paro Airport, is so challenging that only 25 pilots are legally qualified to fly there.
ANSWER: Kingdom of **Bhutan**
3. The constant of proportionality in this effect is used to define the ohm. For 10 points each:
[10] Name this effect that occurs when a strong magnetic field forces electrons into highly degenerate Landau levels.
ANSWER: integer **quantum Hall** effect [do not accept "Hall effect" or "fractional quantum Hall effect"]
[10] This material exhibits an anomalous version of the quantum Hall effect where the n equals zero Landau level coincides with the Dirac point. It is possible to isolate this material using Scotch tape and a pencil.
ANSWER: **graphene**
[10] Graphene also exhibits this phenomenon described by the Landauer-Büttiker formalism, in which electrons experience negligible scattering while traveling at non-relativistic speeds.
ANSWER: **ballistic transport** [or **ballistic conduction**]
4. A work of this type in G major attributed to Christian Petzold was included in the 1725 *Notebook for Anna Magdalena Bach*. For 10 points each:
[10] Name this musical form based on a French dance in three-four time. It was commonly used as the third movement of symphonies until it was supplanted by the scherzo, and it often contains a "trio" section.
ANSWER: **minuetto** [or **menuet**]
[10] This composer was one of the pioneers of the minuet, incorporating at least 92 of them into his ballets and operas. He wrote his *Te Deum* to commemorate Louis XIV's successful recovery from surgery.
ANSWER: Jean-Baptiste **Lully** [or Giovanni Battista **Lulli**]
[10] This father of the Mannheim School was the first to consistently employ the minuet and trio in his symphonies, of which he wrote 52.
ANSWER: **Johann Wenzel Anton Stamitz** [or **Jan Václav Antonín Stamic**, prompt on "Stamitz"]

5. In the intrinsic or “contact activation” pathway for initiating this process, factor XII binds to a surface and spontaneously becomes active, starting a cascade. For 10 points each:
[10] Name this cascading process whose ultimate goal is the conversion of fibrinogen into fibrin, allowing formation of a thrombus.
ANSWER: blood **coagulation** [or blood **clotting**]
[10] Blood coagulation is much more commonly initiated via the extrinsic process, also named for this protein that is secreted in response to trauma. This factor activates factor X.
ANSWER: platelet **tissue factor** [or **TF**; or **thromboplastin**; or factor **III**; or **CD142**]
[10] This common anticoagulant medication prevents the recycling of oxidized vitamin K, in turn preventing the synthesis of factor X and regulatory factors like protein C and protein S. Though it’s supposed to prevent thrombosis, this medication’s interaction with vitamin K-containing foods can cause the patient to bleed to death.
ANSWER: **warfarin** [or **coumadin**]
6. A miniature virginal, wooden flute, violin, and sheet music are strewn over a red tablecloth in this artist’s depiction of a lute player, while his typical dark background is mirrored by the water in his *Narcissus*. For 10 points each:
[10] Name this Italian Baroque practitioner of tenebrism who created *The Conversion of St. Paul* and several works in the Contarelli Chapel, including *The Calling of St. Matthew*.
ANSWER: **Caravaggio** [or Michelangelo **Merisi** da Caravaggio]
[10] In this Caravaggio painting, a gray-winged Cupid holds arrows in his hand and steps over a variety of worldly objects, including a suit of armor, musical instruments, a compass, and a book. A crown also lies discarded on a bed.
ANSWER: **Amor Vincit Omnia** [or **Love Conquers All**; accept anything referring to **love triumphing**]
[10] This Dutch city was home to a group of artists who were strongly influenced by Caravaggio’s style. Those artists from this city included Gerrit van Honthorst and Dirck van Baburen.
ANSWER: **Utrecht**
7. This philosopher described the process through which one piece of literature borrows ideas from and is influenced by other pieces of literature, which she called “intertextuality.” For 10 points each:
[10] Name this feminist philosopher who used the term “abjection” to describe the process by which a child learns to develop a sense of self separately from his or her mother. She also wrote *The Powers of Horror*.
ANSWER: Julia **Kristeva**
[10] Julia Kristeva contrasted this concept with the “symbolic.” While the “symbolic” denotes all that is covered by everything that can be expressed with communicative discourse, this concept refers to the subjective field that lies outside of that.
ANSWER: the **semiotic** [do not accept “semiotics”]
[10] Julia Kristeva was greatly influenced by this Austrian thinker who authored *Civilization and Its Discontents* and originated the concept of the Oedipus complex.
ANSWER: Sigmund **Freud**
8. Along with Safronov, this scientist names a criterion that extends the Jeans criterion by incorporating the effect of the shear force produced by differential rotation. For 10 points each:
[10] Name this astronomer whose namesake Q parameter is a measure of the stability of a gaseous disc.
ANSWER: Alar **Toomre**
[10] Alar and Juri Toomre made the first simulations of this process, which produces tidal tails and is responsible for the displacement of the visible matter distribution from the center of gravitational potential in the Bullet Cluster.
ANSWER: **galactic mergers** [accept answers that indicate two **galaxies** are colliding]
[10] This galaxy, which has Messier number 31, will undergo a merger with the Milky Way in about 4 billion years.
ANSWER: **Andromeda**

9. After her cat is killed and strung up on her doorknob, one of this novel's central characters is blamed for a mysterious wave of pigeon deaths. For 10 points each:
 [10] Name this 1987 novel that follows the relationship between the narrator and her eccentric housekeeper Emerence. The narrator is the only character Emerence deems worthy enough to be allowed inside her apartment.
 ANSWER: The Door [or Az ajtó]
 [10] *The Door* is a novel by Magda Szabó, a novelist from this nation home to the winner of the 2002 Nobel, Imre Kertész, who wrote about György's time in a concentration camp in *Fatelessness*.
 ANSWER: Hungary
 [10] This Hungarian wrote about the Spartacus revolt in *The Gladiators* but is best known for his novel about the imprisonment of Rubashov, *Darkness at Noon*.
 ANSWER: Arthur Koestler
10. Pope Clement XI issued the bull *Ex illa die* and dispatched the legate Charles-Thomas Maillard de Tournon in response to this issue. For 10 points each:
 [10] Name this historical issue that centered on the acceptance of tablets inscribed with the phrase "site of the soul" and the use of words meaning "heaven" and "highest emperor" to refer to God.
 ANSWER: Chinese rites controversy [accept answers that describe Jesuits adopting Chinese/Confucian customs]
 [10] Identify either of the aforementioned words that Clement forbade Jesuits from using to refer to God. Both of these words refer to the concept of a supreme deity in traditional Chinese cosmology.
 ANSWER: Tiān or Shàngdì or Dì
 [10] The aforementioned tablets are said to contain the *yīn* aspects of these figures, who are venerated in the Qīngmíng festival and at household altars.
 ANSWER: ancestors [or zǔ; or xiānrén; prompt on "dead people" or "dead family members"]
11. Answer the following about infamous American murderers of the late 19th century, for 10 points each:
 [10] This Fall River, Massachusetts resident likely killed her father and stepmother with "forty whacks" of an axe, but was never convicted of the crime.
 ANSWER: Lizzie Borden [or Lizzie Andrew Borden]
 [10] This Erik Larson book tells the story of H.H. Holmes, a serial killer who operated a "murder castle" during the 1893 Chicago World's Fair.
 ANSWER: *The Devil in the White City: Murder, Magic, and Madness at the Fair That Changed America*
 [10] Austin, Texas built its light-providing "Moon Towers" to stop a serial killer who "annihilated" women of this profession during the mid-1880s. Irish women employed in this profession were dismissively nicknamed "Bridgets."
 ANSWER: female servants [or maids; or servant girls; accept "The Servant Girl Annihilator"]
12. In one of the three lays titled for this character in the Poetic Edda, she is accused by Herkja of having lain in the bed of Thjothrek, forcing her to defend herself before Atli. For 10 points each:
 [10] Name this sister of Gunnar and Hogni who was so sad at the death of her husband that she could not weep until she finally saw his corpse. This woman married that husband despite the fact that he was in love with Brynhild.
 ANSWER: Gudrun [accept Kriemhild]
 [10] This central hero of the *Völsunga Saga* was Gudrun's first husband. He was raised by Regin, killed the dragon Fafnir, and wielded the sword Gram.
 ANSWER: Sigurd [accept Siegfried]
 [10] This daughter of Sigurd and Gudrun was promised to Jormunrek, but after Jormunrek's advisor Bikki lied that she had become the lover of Randver, she was trampled to death by horses.
 ANSWER: Svanhild
13. This man's political allies included a group of businesspeople dubbed the Twelve Apostles. For 10 points each:
 [10] Identify this man nicknamed "El Gocho" whose first presidency benefited from an oil boom, but whose second presidency saw rising unrest due to his neoliberal economic policies, culminating in a pair of coup attempts in 1992.
 ANSWER: Carlos Andrés Pérez Rodríguez [prompt on "CAP"]
 [10] This lieutenant colonel led the first unsuccessful coup attempt against Pérez. After his arrest, he declared on national television that he had failed "for now", which turned out to be true since he was elected president in 1998.
 ANSWER: Hugo Rafael Chávez Frias
 [10] Carlos Andrés Pérez and Hugo Chávez both served as president of this country.
 ANSWER: Venezuela

14. This poem describes a region where “everything can be touched or reached by walking” and imagines people who “have never had to veil their faces in awe of a crater whose blazing fury could not be fixed.” For 10 points each:
 [10] Name this work whose speaker, when imagining a “faultless love,” hears the “murmur of underground streams” and sees the title rocky landscape, which “we, the inconstant ones, are consistently homesick for.”
 ANSWER: “In Praise of Limestone”
 [10] This poet wrote that music “can be made anywhere, is invisible, and does not smell” in his poem “In Praise of Limestone.” He also wrote about his desire to “show an affirming flame” in “September 1, 1939.”
 ANSWER: Wystan Hugh Auden
 [10] The second stanza of “In Praise of Limestone” ends with the voice of this entity whispering, “I am the solitude that asks and promises nothing.” “As I walked out one evening” imagines *this* being “folded and hung up to dry.”
 ANSWER: the ocean [accept oceanic whisper]
15. This economist despised fractional reserve banking and supported abolishing central banks, as can be seen in his book *The Mystery of Banking*. For 10 points each:
 [10] Name this self-described “anarcho-capitalist” economist who wrote a book that often has its final eight chapters published separately as *Power and Market* because of their radical ideas.
 ANSWER: Murray Rothbard
 [10] This other economist outlined his vision of laissez-faire capitalism in the book *Human Action*, which introduces his concept of praxeology, the study of purposeful human behaviors.
 ANSWER: Ludwig von Mises
 [10] von Mises and Rothbard were members of this economic school of thought that attributed business cycles to banks issuing credit. Friedrich Hayek was another member of this school.
 ANSWER: Austrian School
16. The Mitsunobu reaction converts an alcohol into a member of this functional group using triphenylphosphine and an azodicarboxylate. For 10 points each:
 [10] Name this functional group, which is characterized by an R-COOR structure and a fruity odor.
 ANSWER: ester
 [10] In the Mitsunobu reaction, the alcohol group undergoes an inversion of this quality. This quality is also inverted in SN2 reactions.
 ANSWER: stereochemistry [prompt on configuration]
 [10] A significant drawback of the Mitsunobu reaction is its low value for this quantity, which is defined as the mass of the desired product for a reaction divided by the mass of all reagents used in the reaction. This quantity is an important metric for the “greenness” of a reaction.
 ANSWER: atom economy [or atom efficiency]
17. Maria Argyropoulaina, a Byzantine princess who married the son of Doge Pietro II Orseolo, caused scandal by using one of these objects, which many Venetians considered to be an insult to God. For 10 points each:
 [10] Name these objects which Peter Damian states were the cause of Maria’s death by plague a few years later. The unpopular wife of Otto II, Theophanu, is sometimes credited with introducing them to Western Europe.
 ANSWER: forks [prompt on “eating utensils”]
 [10] Another important Byzantine woman was this historian who wrote about the reign of her father in the *Alexiad*. She entered a convent after her plot to depose her younger brother John was discovered.
 ANSWER: Anna Komnene [or Anna Comnena; prompt on partial answers]
 [10] In his 1605 satire *The Island of the Hermaphrodites*, Thomas Artus mocked this king and his court for their use of forks. This final Valois king was assassinated during the War of the Three Henrys.
 ANSWER: Henry III of France

18. The speaker of an essay on this writer compares reading him to being “alone and unprepared on a steep-sided, frigid, airless, poorly mapped mountain,” and repeats that a book has nine hundred and fifty-six pages. For 10 points each:
[10] Name this novelist whose dialogue is “punctuated with dashes and largely unattributed.” In the aforementioned essay, he serves as an example of the “Status model” of literature, as contrasted with the “Contract model.”

ANSWER: William **Gaddis**

[10] The aforementioned anecdote about reading *The Recognitions* is from this *New Yorker* essay, which is included in later editions of the collection *How to Be Alone*. This essay explores the Problem of Hard-to-Read Books.

ANSWER: “**Mr. Difficult**”

[10] “Mr. Difficult” is an essay written by this American author, whose character Andreas Wolf helps a girl kill her Stasi-informant stepfather in his latest novel, *Purity*. He also wrote *The Corrections* and *Freedom*.

ANSWER: Jonathan **Franzen**

19. This king benefitted from the genius of his military engineer Vauban at the Siege of Namur, a victory for France in the War of the League of Augsburg. For 10 points each:

[10] Name this French king who succeeded in placing his grandson Philip of Anjou on the throne of Spain after the War of the Spanish Succession and proclaimed his absolutism by saying, “I am the state.”

ANSWER: **Louis XIV** of France [accept the **Sun King**]

[10] The dowry for Louis’ marriage to this Spanish princess was never paid, leading to the War of Devolution. This queen shares her name with a woman who sent Gerard van Swieten to investigate vampires in Moravia.

ANSWER: **Maria Theresa** of Spain

[10] Louis issued this decree, written by Jean-Baptiste Colbert and the Marquis de Seignelay, in 1685. It introduced various regulations for slavery in the French Empire, including the requirement that all slaves be baptized Catholic.

ANSWER: **Code noir** [or **Black Code**]

20. In this play’s third act, a mirror is lowered onstage after a woman points a gun at a man who gave her husband a ride after his car broke down. For 10 points each:

[10] Name this Ariel Dorfman play in which Paulina tries to convince her husband Gerardo that Dr. Escobar is the man who raped and tortured her while she was a prisoner.

ANSWER: ***Death and the Maiden***

[10] While he now lives in America, Ariel Dorfman originally hailed from this South American country. This is also the home country of the author of *The House of the Spirits*, Isabel Allende.

ANSWER: Republic of **Chile**

[10] Roman Polanski, who adapted Dorfman’s *Death and the Maiden* into a 1994 film, also adapted this contemporary French playwright’s *God of Carnage*. Marc and Yvan mock an expensive painting their friend Serge purchased in this author’s play *Art*.

ANSWER: Yasmina **Reza**