

Penn Bowl 2013: Do Not Accept or Prompt on “Cloaking”
Round 6

Tossups

1. **Descriptive answers acceptable. One faction in this debate has a two-part theory whose second part claims that one woman unknowingly produced a son through an incestuous relationship with her son. Another faction in this debate advanced the claim that the use of the Latin word *honorificabilitudinitatibus* was a secret cipher. One faction in this debate interprets the line “our (*) ever-living Poet” as posthumous praise. A common argument used by factions in this debate is that the mainstream answer only attended a grammar school, if at all. Popular solutions to this question include the 6th Earl of Derby, the 17th Earl of Oxford, Francis Bacon and Charles Marlowe. For 10 points, name this conspiratorial debate over possible alternatives for the mainstream identification of the author of plays such as *Hamlet*.**

ANSWER: Shakespearean authorship question [or who really wrote Shakespeare’s plays, the true person behind Shakespeare, Shaksper isn’t Shakespeare, Shakespeare was a front man and equivalents; or Baconian/Oxfordian/Marlovian/Derbyian theory of Shakespearean authorship; or less coherent answers such as Shakespeare wasn’t Shakespeare]

2. **This artist took the title of one painting from the refrain of Baudelaire’s “Invitation to a Voyage,” and that work is based on the landscape near Paul Signac’s house. This artist was working on a sculpture but accidentally broke it, which inspired him to paint that sculpture in a very angular form that he called *Souvenir de Biskra*. This artist of *Luxury, Serenity and Pleasure* painted some (*) *Blue Nudes* as well as another work in which the tablecloth blends into the wallpaper behind a maid who is arranging fruits on a table for the title *Dessert*. This artist included one of his own works in the yellow background of a multicolored scene filled with many nudes. For 10 points, name this artist of *The Joy of Life* and *La Danse*, the foremost painter of fauvism.**

ANSWER: Henri-Emile-Benoit Matisse

3. **Five of this man’s bodyguards were killed by the FPMR in an assassination attempt, and this man’s son was paid 3 million dollars for the Valmoval rifle company, even though he didn’t own it. This man’s government is the subject of the still-classified Rettig and Valech reports. This man’s government killed journalist Charles Horman, and another person targeted by his government was killed on D.C.s Embassy Row by a (*) car bomb. This man, who used the *Esmeralda* as a floating torture chamber, was supported by the Carabineers during his rise. This man, who employed the DINA secret police, came to power after his predecessor was killed during the shelling of La Moneda palace; that predecessor had completed the nationalization of his country’s Copper mines and was named Salvador Allende. For 10 points, name this longtime military dictator of Chile.**

ANSWER: Augusto Jose Ramon Pinochet Ugarte

4. **This author wrote about the strange marriage of the hostess at the Inn of the Great Stag, which came about because a vengeful widow tricked the Marquis of Arcis to fall in love with a prostitute. Another work by this author begins with the narrator watching the chess masters Legal and Philidor before he gets into a conversation which ends with one man proclaiming, “He who laughs last, laughs best.” This author set one work in the (*) Regency Café, while another work is about a man who believes that everything that happens or ever will happen has been written on a great scroll up above. This man collaborated with Jean le Rond d’Alembert on his most famous project, and he also wrote *Jacques the Fatalist* and *Rameau’s Nephew*. For 10 points, name this Enlightenment thinker who was the editor of a repository of all knowledge, the *Encyclopedie*.**

ANSWER: Denis Diderot

5. **This ruler scandalously married Anne Hyde, the lowborn daughter of a minister of his predecessor. After her death, this ruler married Mary of Modena. This ruler was betrayed by the Immortal Seven. One revolt against this ruler included a failed night attack led by the guide Richard Godfrey; that revolt began at Lyme Regis and was ended at the Battle of (*) Sedgemoor, when the forces of the Duke of Monmouth were defeated. Judge Jeffries then carried out the Bloody Assizes during this ruler's reign. This ruler passed multiple Declarations of Indulgence to overturn such acts as the discriminatory Test Acts. This ruler became known as "the shit" for fleeing from the Battle of the Boyne, at which he was defeated by his successor, William of Orange. For 10 points, name this last Roman Catholic ruler of England, who was overthrown in the Glorious Revolution.**

ANSWER: **James II** of England [or **James VII** of Scotland; or **James the Shit**; prompt on "Duke of York" and "Duke of Albany"]

6. **This man's ideas were reflected in his student's parable *The Lion and the Diver*. This man used a parable of a water clock to outline the role of judgment, decree, and predestination in his cosmology. One book written by this man was divided into four parts, with the last outlining paths to salvation; that work was re-published as *The Alchemy of Happiness*. One work by this man is arranged into a series of 20 justifications, the 17th of which discusses the idea that God (*) rearranges atoms in order to assign accidents to bodies. In one work, this man stated that demonstrations, or burhan, cannot contradict revelation. This proponent of "secondary causality" was criticized for putting God a step above the prime mover in a line-by-line refutation by Averroes. For 10 points, name this philosopher who critiqued the Aristotelian tradition of Arabic philosophy in his *Incoherence of the Philosophers*.**

ANSWER: Al-**Ghazali**

7. **In one play by this author, the title character's first words are a speech that begins, "O divine air Breezes on swift bird-wings... The multitudinous laughter of Mother Earth!" One of this man's plays was modified to include a Fourth Episode involving a Herald who prohibits a certain action to better segue into a play by a different author; that episode follows a Threnos. The antagonist is told by his Spy of the title characters at (*) Argos' camp in one play by this author, who wrote of another character telling the Oceanids about a marriage that could lead to Zeus's downfall after being trapped by Kratos and Bia. This author wrote of the alliance against Eteocles as well as another character who gets struck by lightning and has his liver eaten while he is chained to a mountain. For 10 points, name this Greek tragedian behind *Seven Against Thebes* and *Prometheus Bound*.**

ANSWER: **Aeschylus**

8. **One equation important to understand this process is derived by rearranging the Schrodinger equation and then adding an i times epsilon term to a denominator because $E - H_0$ is singular. One operator important in understanding this process has poles corresponding to bound states and maps in-states to out-states. One quantity important in describing it can be found using the partial wave expansion, and in this process the (*) incident waves are assumed to be plane waves in the Born approximation. The square of the amplitude of this process gives the magnitude of $d\sigma/d\Omega$. The hard-sphere variety of this process has an angle-independent differential cross section. For 10 points, name this process in which a particle bounces off another and changes direction.**

ANSWER: **scattering**

9. **One experiment performed by this man and Ebenholtz found that the order of things listed in free recall doesn't correlate with the order they were learned. This man showed that the perception of "warm" and "cold" traits can influence the interpretation of other traits in his theory of impression formation. This man showed that students respond differently depending on whether Jefferson or (*) Lenin is put forth as the source of a quotation about rebellion, which is an example of prestige suggestion. One experiment performed by this man placed the subject among a group of confederates to test social influence. For 10 points, name this psychologist who**

performed an experiment asking people which of three lines matched another to demonstrate conformity.

ANSWER: Solomon Asch

10. In the Peng-Robinson equation, the departure function for this quantity is equal to R times critical temperature times a function of the compressibility factor. The change in this quantity is divided by negative 2kt in the exponential of the expression giving the density of Schottky defects in a crystal. Both this quantity and the mass flow rate are held constant along a Fanno line. When a gas is forced through an insulated, porous plug, this quantity is held constant. For an ideal solution, the (*) change in this quantity upon solvation is zero. This quantity, which is held constant during a Joule-Thomson process, is equal to the internal energy plus pressure times volume. The fact that this quantity is a state function leads to Hess' Law. The change in this quantity determines whether a reaction is endo or exothermic. For 10 points, name this quantity symbolized H.

ANSWER: enthalpy

11. Long, thin elliptical galaxies suffer from the “firehose” type of this phenomenon. Stars that appear on a feature of the H-R diagram with this in the name contain doubly-ionized helium in their atmospheres. Orbits near fixed points in systems of linear differential equations have this property the eigenvalues of the associated matrix have real parts greater than zero. This word names a (*) “strip” in the HR diagram that contains variable stars. This condition also occurs when the second derivative of the potential energy is less than zero for a system with no net forces or torques. For 10 points, name this property of a system, which is also used to describe an equilibrium that is not resistant to perturbation.

ANSWER: instability [accept anything saying that the system is unstable]

12. This piece's F minor fourth movement begins with two bars of tremolo Ds in the low strings before the second violin enters with a series of pianissimo staccato eighths; that movement is the only one with a timpani part. The composer of this piece included a brief description in the program, which called this piece “more of an expression of feeling than a painting.” This piece, despite its number, was the (*) first in the program of a concert at the Theater an der Wien where its composer also premiered his previous work of the same type. This piece uses winds to represent birds, while its fourth movement “Thunderstorm” separates a “Merry gathering of country people” and a “Shepherds' song.” For 10 points, name this work by Beethoven that is often called “Pastoral.”

ANSWER: Beethoven's Symphony No. 6 in F major, Opus 68 [accept Pastoral Symphony before mentioned]

13. An overdose of an agonist of this compound's receptors can be reversed using flumazenil. This compound's A receptors are blocked by picrotoxin, and those A receptors have two alpha, two beta, and one gamma subunit. This compound is broken down to succinic semialdehyde. Activators of this compound's receptors are used to treat delirium tremens, which occurs during alcohol withdrawal. This compound is produced by a namesake (*) shunt that depends on a PLP-cofactor-using enzyme. Baclofen is an agonist of this compound's receptors used to treat spasticity. This compound is formed from the decarboxylation of glutamate and its effects are allosterically enhanced using benzodiazepines. For 10 points, name this inhibitory neurotransmitter.

ANSWER: GABA [or gamma-aminobutyric acid or gamma-aminobutyrate]

14. One participant in event won a free steak dinner from Pancho Barnes, the proprietor of the Happy Bottom Riding Club. The person who performed this action had his autobiography co-written by LBJ speechwriter Leo Janos. The craft used in this event was first field-tested at Pinecastle Army Field by Jack Woolams, and a member of NACA named Herbert Hoover was the first (*) civilian to replicate this feat. The craft used in this event was nicknamed *Glamorous Glennis* after the wife of the pilot. A fictional account of this event was contrasted with the experiences of the Mercury Seven Astronauts in Tom Wolfe's *The Right Stuff*. For 10 points, name this event in which a Bell X-1 plane was used to travel faster than Mach 1.

ANSWER: Chuck Yeager's supersonic flight [or Chuck Yeager breaking the sound barrier; or Yeager goes supersonic; need both Yeager and what he did for points]

15. In one film by this director, a series of frescoes are destroyed when exposed to fresh air during subway construction. That work, which also contains an ecclesiastical fashion show, is a semi-autobiographical film about this director's journey to the title city. He directed a film in which the main character sees a huge pig stuffed with birds and sausages cut open at a feast hosted by (*) Trimalchio. Another of this director's films opens with a scene in which the protagonist fails to get phone numbers from sunbathers while onboard a helicopter carrying a Christ statue. In that film by this director, Marcello joins Paparazzo to cover the arrival of Swedish-American actress Sylvia, with whom Marcello later dances in the Trevi Fountain. For 10 points, name this Italian director of *Roma*, *Satyricon*, and *La Dolce Vita*.

ANSWER: Federico Fellini

16. A failed attempt to create an alliance between these two nations was the Treaty of Bjorko, which was signed during a war in which one of these nations provided coaling stations for the other's fleet. Relations between two countries improved with the signing of the Reinsurance Treaty, which was not renewed three years later. The leader of one of these countries held a (*) congress in his capital that reduced the gains that the other country had made in the Treaty of San Stefano. These two countries joined Austria-Hungary in the League of the Three Emperors. For 10 points, name these two countries, once led by the authors of the Willy-Nicky Telegrams between Wilhelm II and Nicholas II.

ANSWER: Imperial Germany and the Russian Empire [or Second Reich and Imperial Russia; or Deutsches Reich and Rossiyaskaya Imperiya; or any stupid combination of the above]

17. This poet wrote, "Yes, thou art gone! and round me too the night / In ever nearing circle weaves her shade," in a poem with an epigraph from Lucretius that tells how "all our hustling morrows only make / The smooth to-day of God." This poet emphasized the line, "The bloom is gone, and with the bloom go I," in a poem whose title character is told, "Time, not Corydon, hath conquer'd thee." This poet began one poem, "How changed is here each spot man makes or fills!" and in another poem described, "the (*) night-wind down the vast edges dread And naked shingles of the world." This poet commemorated his friend Arthur Hugh Clough in one poem, and he wrote about "The eternal note of sadness" heard at a place where "ignorant armies clash by night." For 10 points, name this author of "Thyrsis" and "Dover Beach."

ANSWER: Matthew Arnold

18. One figure of this name wrote a letter on the way to his execution in Rome urging his people to let him die because there are no worldly things left for him. One figure of this name was influenced heavily by his reading of Ludolph of Saxony's *De Vita Christi*. With Clement of Rome and Polycarp of Smyrna, another figure with this name is one of the named Apostolic Fathers of the Church and called himself (*) theophoros. Another figure with this name was the first to hold the position of Superior General, and one of his works is divided into four "weeks" and teaches people how to develop the ability to discern between God and Satan; that work is a guide to meditation called the *Spiritual Exercises*. For 10 points, give this common name of the third Bishop of Antioch and a theologian from Loyola who founded the Jesuits.

ANSWER: Ignatius

19. Besides being responsible for maize and dancing, the Aztec god Ixtilton was in charge of this domain. Cit-Bolon-Tum is a god of this domain in Mayan mythology. Another god of this domain attacked his son Miach four times for aiding King Nuada; that Celtic god is Dia'necht. Iron Crutch Li of the Eight Immortals had powers associated with gods of this domain when he let people drink from his gourd. A Greek god of this domain had a huge (*) sanctuary at Epidaurus and a son called Machaon. That Greek god of this domain was

the son of Koronis and Apollo and was killed by Zeus's thunderbolt since his skill had grown so powerful that he was depopulating the underworld. For 10 points, name this domain of gods such as Asclepius, who was helpful in avoiding sickness and death.

ANSWER: **Healing** [or **medicine**; or **health**; or **surgery**; or **doctors**; or **surgeons**]

20. **This story begins by describing a man who issued an edict that no black woman should appear on the streets without an apron; that man tried to remit taxes to the main character because of a made-up loan granted to the town, which later causes trouble for the Board of Aldermen who can't get any tax payments. At another point in this story, four men sprinkle lime in the cellar and outhouses of a house after (*) Judge Stevens fails to do anything about a complaint. The protagonist of this story goes to a drug store and refuses to explain what the use of arsenic is when asked by the druggist, which arouses suspicion of suicide, and at the end of this story, a pillow with a head's indentation is found along with a strand of iron-gray hair next to Homer Barron. For 10 points, name this short story about a woman who keeps the decomposing body of her lover in her bedroom, by William Faulkner.**

ANSWER: "A **Rose for Emily**"

TB. **This government's actions were detailed in John Barron and Anthony Paul's book *Murder in A Gentle Land*. The leader of this regime was famously interviewed by Nate Thayer. The first use of the War Powers Resolution by the United States was in response to this group's capture of a Randall-Austin-commanded craft called the (*) *Mayaguez*. This government employed a special police force called the Santebal, headed by Comrade Duch. This government converted a high school into the prison camp S-21. This government ordered urban intellectuals into the countryside in order to farm, which was obviously a disaster. This government fell after it invaded Vietnam, and it was responsible for executing thousands of prisoners in the Killing Fields. For 10 points, name this regime headed by Pol Pot.**

ANSWER: **Khmer Rouge** [prompt on "Cambodia"]

Bonuses

1. A group chaired by Paul Nitze drafted this 1950 policy paper that advocated a peacetime arms buildup. For 10 points each:

[10] Name this National Security Council policy paper that advocated increased defense expenditures in order for the United States to be able to resist the Soviet Union.

ANSWER: **NSC-68** [or **National Security Council report 68**]

[10] NSC-68 focused on how the United States could use its military capabilities to carry out this policy of surrounding the Soviet Union with allies to isolate it and preventing its influence from spreading.

ANSWER: **containment** of the Soviet Union

[10] NSC-68 was partially inspired by the diplomat, who was aghast that the diplomatic options discussed in his Long Telegram were ignored by the policy paper.

ANSWER: George F. **Kennan**

2. One attempt to explain this quantity assumed each atom in a lattice was a harmonic oscillator, and that all of the oscillators vibrated at the same frequency. For 10 points each:

[10] Name this quantity calculated by the Dulong-Petit law, which is equal to the heat required to raise the temperature of an object by one degree.

ANSWER: **heat capacity** [or **specific heat**]

[10] In contrast with the aforementioned Einstein model of a solid, this other scientist names a model of heat capacity in which a solid is assumed to be a bunch of phonons in a box.

ANSWER: Peter Joseph William **Debye**

[10] The Einstein model of a solid is used to derive this quantity, which is the decrease or attenuation of X-rays during X-ray diffraction by oscillatory motions of atoms.

ANSWER: **Debye-Waller** factor [or **B** factor]

3. This mastermind of this event was killed at the subsequent Battle of Yamazaki. For 10 points each:

[10] Name this event in which Akechi Mitsuhide betrayed the first of the three Great Unifiers of Japan and drove him to commit suicide.

ANSWER: **Honno-Ji** Incident [or **Honno-ji no hen**; prompt on “Kyoto” siege; prompt, BUT DO NOT SAY, things like “Oda Nobunaga’s death/suicide/killing”]

[10] After his death in the Honno-ji Incident, this leader was avenged and succeeded by Toyotomi Hideyoshi.

ANSWER: Oda **Nobunaga** [prompt on “Oda”]

[10] Oda Nobunaga defeated these religiously driven mobs who had their primary fortress at the Ishiyama Hongan-ji. One of the few men with influence over them was Rennyō, leader of the True Pure Land sect at Hongan-ji.

ANSWER: Ikko-**Ikki** [or the **Ikko-shū**]

4. This novel tells of the marriage of the protagonist’s father to Maria, who gives birth to Kurt, who is possibly the protagonist’s son. For 10 points each:

[10] Name this work about a boy who finds the severed finger of Sister Dorothea and allows himself to be convicted of her murder well after his father, Alfred, dies while swallowing his Nazi badge.

ANSWER: *The* **Tin Drum**

[10] The *Danzig Trilogy*, including *Cat and Mouse* and *The Tin Drum*, was written by this German Author.

ANSWER: Gunter Wilhelm **Grass**

[10] In *Cat and Mouse*, Grass wrote about Pilez’s relationship with this man who dies exploring a sunken ship. This character sadly never gets to make a speech at his school because he was expelled for stealing an Iron Cross.

ANSWER: “The Great” **Mahlke**

5. On the album of the same name as this song, it comes third after “Locomotive” and “I Didn’t Know About You.” For 10 points each:

[10] Name this 12 bar blues standard in B flat that was originally recorded with a team of five including Art Blakey on drums and the composer on piano.

ANSWER: “**Straight, No Chaser**”

[10] “Straight, No Chaser” was written by this pianist who also wrote “Round Midnight.”

ANSWER: Thelonious Sphere **Monk**

[10] This Jazz artist behind the album *Porgy and Bess* recorded “Straight, No Chaser” on *Milestones* and titled another album *Round About Midnight* after Monk’s similarly named song.

ANSWER: Miles **Davis**

6. DSS can be used as a calibration standard for this technique, whose cadmium-113 version is used to study metalloproteins. For 10 points each:

[10] Name this technique in which a strong magnetic field is applied to a sample and nuclei respond in different frequencies based on their chemical environment.

ANSWER: **NMR**

[10] NMR peaks are reported in this form, which has units of parts per million. This is the resonant frequency of a nucleus normalized to the frequency of a reference standard, most often tetramethylsilane.

ANSWER: **chemical shift**

[10] The two hydrogens attached to the central carbon of propane will have a peak split into this many constituents, because the peak will be split by a pair of equivalent adjacent CH₃ groups.

ANSWER: **seven** [or **septet**]

7. Part 3 proposes that sexual desire is based on “the look” and refutes the claim that biology influences sex. For 10 points each:

[10] Name this treatise subtitled “An Essay on Phenomenological Ontology.”

ANSWER: **Being and Nothingness** [or **L'Être et le néant**]

[10] *Being and Nothingness* was written by this French philosopher, who also wrote the drama *No Exit*.

ANSWER: Jean Paul **Sartre**

[10] Sartre also wrote this two volume tome that includes the *Theory of Practical Ensembles* and *The Intelligibility of History*. It analogizes human history and interaction to a jelly-like substance.

ANSWER: **Critique of Dialectical Reason** [or **Critique de la raison dialectique**]

8. Jarmil Burghauser catalogued this composer’s works, which include the *Violin Concerto in A minor* and the *Moravian Duets*. For 10 points each:

[10] Name this composer of an “American” string quartet and the *Symphony From the New World*.

ANSWER: Antonin Leopold **Dvorak**

[10] This other composer used folk themes for the *Moravian Dances* and an opera about the title stepdaughter of Kostelnicka, *Jenufa*.

ANSWER: Leos **Janacek** [or Leo Eugen **Janacek**]

[10] This five-movement work by Janacek was dedicated to the Czechoslovak Armed Forces, and the military influence is evident in the first movement, which is a huge brass fanfare.

ANSWER: **Sinfonietta**

9. A woman in this work is nearly tricked by into jumping out a window to her death, but the discovery of another character’s intentionally sunken boat causes her not to jump. For 10 points each:

[10] Name this book that tells how Maxim de Winter shot and killed his the title character after being provoked by a story about an extramarital pregnancy. The housekeeper Mrs. Danvers works for Maxim de Winter in this book.

ANSWER: **Rebecca**

[10] This story by du Maurier, the author of *Rebecca*, is about Nat Hockens who sees many of his fellow townspeople die when they are attacked by masses of the title animals. It was made into a film by Alfred Hitchcock.

ANSWER: **The Birds**

[10] This overseer of Manderley above Maxim de Winter tells the heroine about Rebecca's boathouse and how her body washed up two miles away. The heroine calls this man when she is distressed about Maxim's love for Rebecca.

ANSWER: **Frank Crawley** [accept either underlined portion]

10. [NOTE TO MODERATOR: DO NOT REVEAL ANY ALTERNATIVE ANSWERS TO FIRST PART IF THEY ARE NOT OFFERED BY THE PLAYER. THANK YOU]

This project worked with a team led by Russian archaeologist Sergei Lukyashko. For 10 points each:

[10] Name this project which seeks to prove that the Azov Region had been home to a people who were driven out by the Romans and became revered as pantheon of gods in their new homeland.

ANSWER: The **Search for Odin** [or **Jakten pa Odin**; or Thor **Heyerdahl's Odin** project]

[10] The Odin project was led by this Norwegian ethnographer. His study of ancient sea voyages included building and sailing the *Kon-Tiki* raft from Peru to French Polynesia in 1947.

ANSWER: Thor **Heyerdahl**

[10] Thor Heyerdahl also theorized that "Long Eared" South Americans arrived before "Short Eared" Polynesians to this island. It is lined with its *moai* or giant carvings of heads.

ANSWER: **Easter** Island [or **Rapa Nui**]

11. Daniel de Priezac defended this statesman from charges of aiding heresy, by arguing that aiding France, the purest and most devoted Catholic power, was not heresy. For 10 points each:

[10] Name this First Minister of France, a Catholic cardinal who plunged Louis XIII's France into the Thirty Years' War on the Protestant side.

ANSWER: Cardinal **Richelieu** [Armand Jean **du Plessis**, cardinal-duc de Richelieu et de Fronsac]

[10] Richelieu negotiated this treaty that ended the French Wars of religion. It amended the Edict of Nantes by restricting some political rights of Huguenots, but kept them pacified during the Thirty Years' War.

ANSWER: Peace of **Alais** [or the Edict of **Alès**; or the Grace of **Alais**; prompt on "Edict of Grace"]

[10] This Holy Roman Emperor did not share Richelieu's appreciation of *raison d'état* and needlessly drove his Protestant princes into rebellion by issuing the Edict of Restitution, which tried to restore an earlier peace created by his brother.

ANSWER: **Ferdinand II**, Holy Roman Emperor [prompt on "Ferdinand"]

12. This author wrote the three books, "These Walls Do Not Fall," "Tribute to the Angels," and "The Flowering of the Rod," into a collection titled *Trilogy*. For 10 points each:

[10] Name this author who wrote, "Whirl up, sea— Whirl your pointed pines," in one poem and published the collection *Helen in Egypt*.

ANSWER: **H.D.** [or **Hilda Doolittle**]

[10] This other imagist poet wrote about walking "down the garden paths" and seeing the title "Patterns" of one poem. She belonged to a family that also included the author of *For the Union Dead*.

ANSWER: Amy Lawrence **Lowell**

[10] This author translated many Chinese poems and actually included Chinese characters in parts of his *The Cantos*.

ANSWER: Ezra Weston Loomis **Pound**

13. The function defined over these spaces obeys the identity of indiscernibles and the triangle inequality, and all normed vector spaces are one of these spaces.

[10] Name this type of space which includes a set and some measure of distance that applies to the members of the set.

ANSWER: **metric spaces**

[10] A very common 3-dimensional metric space, defined over ordered triples of real numbers, is named for this ancient Greek mathematician. This mathematician posited the parallel postulate in his *Elements*.

ANSWER: **Euclid** of Alexandria

[10] Metric spaces have this property if every pairwise distance is less than some maximum.

ANSWER: **bounded**

14. One religion from this nation believes that the earth is the 68th of 72 worlds, with hell being right under World 72. For 10 points each:

[10] Name this country home to a religion that venerates Victor Hugo and Sun Yat-Sen as saints, called Cao Dai.

ANSWER: **Vietnam**

[10] This is the religion of around 7% of the population of Vietnam. They include the founder of the pro-democracy movement Bloc 8406, Nguyen Van Ly, and former Prime Minister Ngo Dinh Diem.

ANSWER: Roman **Catholicism**

[10] This quasi-Buddhist religious tradition in Vietnam believes that the “Buddha Master”, Huynh Phu So, is a holy figure. This religion focuses on charity over building pagodas and elaborate ceremonies.

ANSWER: **Hoa Hao**

15. This deity lives with his little brother and Dame Bear. For 10 points each:

[10] Name this mythical hero of the Wabanaki Confederacy peoples such as the Mi'kmaq. He once purposefully beached Blob the Whale in his quest for the Queen of Summer.

ANSWER: **Glooscap** [or **Gluskabe**]

[10] This other aboriginal mythological figure serves as both the creator and trickster god of many peoples of the Pacific Northwest such as the Haida. This non-crow blackbird used a shell to make the first humans.

ANSWER: **Raven**

[10] This other deity had her fingers chopped off by her father while trying to get back into a boat. Those chopped off fingers turned into animals such as seals and narwhals and she fell off and became the Inuit goddess of the sea.

ANSWER: **Sedna**

16. Identify some things about unusual membranes, for 10 points each:

[10] This organelle's inner membrane contains the unusual double-headed phospholipid cardiolipin. This organelle's inner membrane contains the components of the electron transport chain.

ANSWER: **mitochondria**

[10] This domain of organisms have ether-linked lipids in their membranes.

ANSWER: **archaea** [or **archaebacteria**]

[10] Bacteria which convert nitrate and ammonium to N₂ gas have unusual ladderane lipids in their membranes. That conversion process is given this name.

ANSWER: **Anammox** [or **Anaerobic Ammonium Oxidation**]

17. This collection includes a poem in which the narrator has “a white rose to tend” that he gives “to the true friend” and has another “for the cruel one.” For 10 points each:

[10] Name this poetry collection that begins with the line, “A sincere man am I.” A few of its poems were adapted into a patriotic song.

ANSWER: **Versos Sencillos** [or **Simple Verses**]

[10] This poet wrote *Versos Sencillos* and suggested that his countrymen should resist Europeanization in the prose “Our America.”

ANSWER: Jose Julian **Marti** Perez

[10] Marti’s poems were used for the lyrics of “Guantanamera,” a patriotic song from this country. Marti was instrumental in this country’s victory in its war of independence.

ANSWER: **Cuba**

18. At the most recent conference of this organization, David Cameron wished that tax evasion and transparency should dominate the agenda. For 10 points each:

[10] At that latest conference of this organization of industrialized nations, Stephen Harper warned that due to Vladimir Putin’s support of Assad, it could become the “G7+1”.

ANSWER: **G8** [or **Group of Eight**]

[10] Shortly before the conference, Cameron and Hollande made a joint announcement that they would lead their countries into this transparency agreement, meant to level the playing field in resource-rich developing countries.

ANSWER: **EITI** [or **Extractive Industries Transparency Initiative**]

[10] The Cardin-Lugar amendment to this 2010 piece of legislation essentially put the United States in compliance with EITI standards. Its main purpose was to reform Wall Street and protect consumers.

ANSWER: **Dodd-Frank** Wall Street and Consumer Protection Act

19. The size of this body was increased from 400 to 500 by Cleisthenes, who gave 50 seats to each tribe. For 10 points each:

[10] Name this body that drafted the deliberations of the *ecclesia*. It never eclipsed the power of the Areopagus and served as a model for similar bodies in other city-states.

ANSWER: **Boule**

[10] The best-known boule was in this Attic city, where it was empowered by pro-democracy leaders such as Ephialtes and Pericles.

ANSWER: **Athens**

[10] This Athenian leader created the boule with 400 members. His other reforms include abolishing debt-slavery and humanizing Draco’s law code.

ANSWER: **Solon**

20. This artist started to use his restricted palette in early works like *Avond (Evening): The Red Tree*, which was surprisingly representational compared to some of his other works. For 10 points each:

[10] Name this painter who used only red, blue, and yellow for his *Broadway Boogie Woogie*.

ANSWER: Pieter Cornelis “Piet” **Mondrian**

[10] This other member of De Stijl used representational images as the basis of his *Mine Triptych*, which actually depicted a mine in Spain. He also designed the interior of the St. Hubertus Hunting Lodge.

ANSWER: Bart **van der Leek**

[10] This other artist wrote the “Manifesto of Concrete Art.” With van der Leek and Mondrian, this man founded De Stijl and later fought with other members because of his use of diagonal lines.

ANSWER: Theo **van Doesburg**