



1. One author from this country wrote a novel about a house named for a bouquet of sunflowers, in which the gift of a mysterious box reveals that two principal characters are committing incest, and a novel in which the newspaper *The District Voice* exposes the title priest's affair with Amelia, which ends with the infanticide of their child. This country was home to the author of *The Maias* and *The Crime of Father Amaro*. A poet from this country wrote a book titled for a Latin acronym for the phrase "the mind commands the matter," which predicts that this country's "hidden" king will found the spiritual "Fifth Empire." That poet from this country wrote "The Keeper of Flocks" as Alberto Cairo and several odes to Greek gods as Ricardo Reis. For 10 points, name this country, home to José Maria de Eça de Queiroz and the heteronym-producing Fernando Pessoa.

ANSWER: **Portugal**

019-13-64-11101

2. A dispute over actions during this event caused riots between supporters of Heraclius and Eusebius shortly afterwards. The first victim of this event was a man who tore down a piece of paper and shouted "Here are your Gothic and Sarmatian triumphs!" The destruction of a building at Nicomedia on the day of the Terminalia marked the start of this action, which was advanced by such men as Galerius and Maximian. Saints Agnes and Sebastian are believed to have been martyred during this event. The "traditores" who had "handed over" texts during this event were accused of being unable to hold valid priesthood by the Donatists. For 10 points, name this event, the final purge of its kind in Roman history, which was instituted by the Tetrarchy against a minority religion that refused to sacrifice to the Emperor.

ANSWER: the **persecution** of Christians under **Diocletian** [or obvious equivalents; prompt on partial answer]

019-13-64-11102

3. This construct can be approximated by the Brillouin and Langevin functions; the latter is normally used above the blocking temperature. This construct can be used to determine $(BH)_{\max}$. These constructs are normally divided into four regions: reversible and irreversible growth, and two regions corresponding to rotation. This construct can be used to create a permeability curve. This construct approaches an asymptote at saturation and the remanence and coercivity can be determined from the points at which this construct intersects the x- and y-axes. This construct normally plots field strength versus flux density. For 10 points, identify this graph where one can normally find a hysteresis loop.

ANSWER: **demagnetization** curve [or **I-H** curve; or **B-H** curve until " $(BH)_{\max}$ " is read; or **hysteresis** curve until "hysteresis loop" is read; prompt on the **graph** depiction of ferrom**magnetism**]

066-13-64-11103

4. One player of this instrument, who founded the band Dameronia, gained a nickname based on his hometown to distinguish him from another player of this instrument, who died the same week as that man. Miles Davis hired a 17-year old to play this instrument in his "Second Great Quintet". Norman Granz convinced the man who played this instrument on Benny Goodman's "Sing, Sing, Sing" to perform in a series of "battles" with another player of this instrument. Joe Morello played this instrument in odd time signatures used by Dave Brubeck for songs like "Take Five". For 10 points, name this instrument that Philly Joe Jones and Tony Williams played for Miles Davis, and which was the subject of a series of contests between Gene Krupa and Buddy Rich.

ANSWER: drums

002-13-64-11104

5. A schism in the major Protestant church of this country occurred in 1886 and was known as the Doleantie; the pastor who led one side of the dispute later became this country's prime minister. Most members of this country's "black stocking churches" live in an area running diagonally across the country from the southwest to northeast known as its Bible Belt, where the "Translation of the States" is read. Francis Gomarus opposed the Remonstrants in this country, leading to a summit of its Protestant church at the Synod of Dort, which condemned Arminius. This country is five percent Muslim, and its anti-Islamic politicians have included a man who was murdered by Mohammed Bouyeri after making the film *Submission*, Theo van Gogh. For 10 points, identify this country, home to prominent theologians such as Baruch Spinoza and Erasmus of Rotterdam.

ANSWER: the Netherlands [or Holland, the United Provinces, and any other names that the Netherlands used to have]

019-13-64-11105

6. This man briefly campaigned for atheism with the pamphlet *The Case Against Religiosity*. In his early career as a sex researcher, he claimed that exposure to pornography does not harm children in *If this Be Heresy*. This man attempted to apply his psychological principles to education by founding The Living School. This man's disciple Maxie Maultsby invented a similar treatment program to his own; his method relies on the "adversity, behavior, consequences", or ABC, model. This conductor of "Friday Night Workshops" wrote *Reason and Emotion in Psychotherapy*. For 10 points, name this humanistic psychologist who proposed an action-oriented model which he called rational emotive behavior therapy.

ANSWER: Albert Ellis

019-13-64-11106

7. In a work by this man, he claims that despotism froze relations between people and that only freedom can save people from the "worship of Mammon." In that work by this man, he claims to have "proceeded as doctors do when they examine defunct organs," in that he tried to highlight exemplary figures and ill laws from the title eras. This man claimed that because one event had "no territory of its own," that it was similar to a religious revolution despite the fact that it only abolished feudalism. In another work this man believed that the jury was "one of the most effective means of public education." This author of *The Ancien Regime and the French Revolution* is more famous for a work written while examining prison systems with Gustave Beaufort. For 10 points, name this author of *Democracy in America*.

ANSWER: Alexis d'Tocqueville

149-13-64-11107

8. A crowd with lances fills the top of this painting, and a man in a full suit of armor is standing on the left, for some reason. A member of the crowd angrily points his finger at the title figure of this painting as another part of the crowd fights over a purple cloth. The title figure of this painting looks up at the sky despite the chaos around and behind him. A man in yellow is drilling a hole for a nail in a piece of wood on its bottom right. The centerpiece of this painting is the title figure's bright red robe, and the painter received less than a third of what he was supposed to for this painting because the Three Marys look on in horror in its lower left corner. For 10 points, name this El Greco painting in which Jesus is being tortured as a man reaches to take his clothing.

ANSWER: *The Disrobing of Christ*

002-13-64-11108

9. Although not Juneau, this town's Red Dog Saloon gave birth to psychedelic rock. Samuel Clemens first used the pen name Mark Twain while reporting for this town's *Territorial Enterprise*, which also employed Bret Harte. The so-called Bonanza Kings, John Mackay, James Fair, James Flood and William O'Brien, made their fortunes in this town, as did George Hearst. This town is the seat of Storey County. The Washoe process and square set timbering were both pioneered in this town, which is located just north of Gold Hill. It was founded around the first major silver deposit found in the United States. For 10 points, identify this Nevada ghost town that originally sprung up around Comstock Lode.

ANSWER: Virginia City [or Virginny Town]

066-13-64-11109

10. One form of this quantity can be defined as one-half times the reciprocal of the probability that two randomly chosen gene copies are descended from the same gene copy in the previous generation. In the Wright-Fisher model, the variance in frequency of an allele is given as the one-half times the frequency of the allele times one minus the frequency of the allele, all over this quantity. Over some finite interval, a positive association between absolute average individual fitness and this quantity is termed the Allee effect. This quantity can be estimated using the Lincoln-Peterson index, which is used in conjunction with the mark-and-recapture method. The maximum value for this quantity that a region can support indefinitely is the carrying capacity. For 10 points, identify this parameter that quantifies the number of individuals in a population.

ANSWER: population size [prompt on population]

066-13-64-11110

11. The founder of the first periodical devoted to this movement wrote the *Smoke-Colored Stories* and *Gossamer Stories*. A revival of this movement, which took the same name, included the publication of a novel about a man who invokes the name of the sloth in multiple languages before becoming Ursa Major, and the poetry collection *Hallucinated City*. A poem from this movement begins "I found upon the shore a golden shell," and this movement also produced the poems "Song of Autumn in the Springtime" and "To Margarita Debayle." In a major poem from this movement, "current lunatics say" that the subject is "a Professor of Energy," and "Liberty, lighting the path to easy conquest, raises her torch in New York." That poem from this movement says that "the deadly Rifleman and the dreadful Hunter" is "lacking one thing: God!" For 10 points, name this literary movement that includes the volume *Azul* by Ruben Dario, and dominated Spanish-language poetry at the start of the twentieth century.

ANSWER: modernismo

019-13-64-11111

12. Traditionally, this country's first ruler is considered to be Fa Ngum, who established the Lan Xang kingdom. Coups in this country were led by Kong Le and Phoumi Nosavan, who both opposed the governments of Souvanna Phouma. A group in this country that opposed the use of *phu nyai* or "big man" politics was Hak Xat. The former RLG member Thongthip Rathavilai wrote *Man in the Region of Death* about prison camps in this country. With the aid of the Viet Minh, Prince Souphanouvong led a group that overthrew a US-backed government of this country that was centered in Vientiane. It is not Cambodia, but the Ho Chi Minh trail ran through this country. For 10 points, in 1975 a namesake Communist Pathet party gained control of what country?

ANSWER: **Laos** [or **Lao** People's Democratic Republic]

149-13-64-11112

13. The inverse type of this system is commonly found in South Australia due to the rate of evaporation exceeding land drainage plus precipitation. Less common geomorphological types of these systems include tectonic, fjord, and bar-built, which involves the action of sandbars or barrier islands. The most common type of these systems is formed when sea levels rise and inundate a low-lying river valley. These systems can be divided into salt wedge, partially mixed, well-mixed based on salinity stratification and large segments of them feature brackish water. For 10 points, identify these partially enclosed bodies of water where salt water from the sea mixes with fresh water from the land, such as the Chesapeake Bay.

ANSWER: **estuaries** [or **estuary**; prompt on **bay**; prompt on **inlet**]

066-13-64-11113

14. Four of these works by this composer were written for solo soprano, including *Jauchzet Gott in allen Landen!*, which includes a part for trumpet. One set of these works by this composer mostly begins with a fantasia on a cantus firmus and ends with a four-part harmonization. The most common structure of these works is to open with a chorus and conclude with a chorale, with a mix of recitatives and arias in between. A longer example of these works is split into two parts that both conclude with tune "Jesu, Joy of Man's Desiring". Some of these works by this composer were settings of texts by Picander, including the funeral music for Leopold of Anhalt-Kothen and the secular "Peasant" and "Coffee" ones. At least three cycles of these works were written while their composer was cantor of St. Thomas's in Leipzig. For 10 points, identify these non-oratorio vocal works written by the composer of *Mass in B minor*.

ANSWER: **cantatas** by Johann Sebastian **Bach**, written while cantor of St. Thomas's in Leipzig [or obvious equivalents]

066-13-64-11114

15. This philosopher claimed that Arab astronomers did not understand that Ptolemaic epicycles were not intended to represent real physical events in his essay collection *To Save the Phenomena*, which covers similar ground as his ten-volume history of cosmology which praises the role of the Catholic Church in advancing medieval science, entitled *The System of World*. This thinker claimed that science is only a "calculating device" for predicting manifestations of reality, and does not reveal truths about nature itself, in his magnum opus, *The Aim and Structure of Physical Theory*. This philosopher lends his name to a theory of underdetermination in physics, which notes that a hypothesis depends on other hypotheses and cannot be tested in isolation. For 10 points, name this philosopher and physicist whose namesake thesis was extended to all empirical knowledge by Willard van Orman Quine.

ANSWER: Pierre **Duhem**

019-13-64-11115

16. One player for this team stitched his ranking in the previous season's ESPN Top 500 onto the tongue of his shoes. This team added Marreese Speights and Jermaine O'Neal in the 2013 offseason. This team played for several years at the Cow Palace, and the "Sleepy Floyd" game helped kick off its "Run-TMC" era. This team won 17 games in the season between trading Wilt Chamberlain to Philadelphia and drafting Rick Barry. In 1997, PJ Carlesimo was choked by a player on this team. One player for this team set a single season record for three point shooting, and that player, Steph Curry, continued to chuck up a shitton of threes in this team's playoff run. For 10 points, name this Western Conference team that plays its home games in Oakland, California.

ANSWER: Golden State **Warriors** [or **Golden State** Warriors]

002-13-64-11116

17. This scientist names an empirical rule which states that when a solid crystallizes out of a solution or melt, it is the thermodynamically less stable phase that separates first, which then transforms into a stable phase in successive steps. This scientist names a relation for binary electrolytes in which the degree of dissociation squared over one minus the dissociation equals the dissociation times the volume in which the electrolyte is dissolved. That relation is his namesake dilution law. This scientist names a phenomenon that involves diffusion of dispersed phase material from smaller to larger droplets due to the smaller droplets having a higher curvature and free energy. An industrial process named for this chemist uses a platinum-rhodium catalyst over which ammonia is combusted. For 10 points, identify this German chemist who names a ripening that takes place in emulsions and the industrial process for producing nitric acid.

ANSWER: Wilhelm **Ostwald**

066-13-64-11117

18. One group in these riots reportedly stored razors in their black mesh stockings, which they wore with short hobble skirts. Members of that group attacked Betty Morgan and were known as "slick chicks." The Black Widows and Sharpies were other all-female groups involved in these riots. Off-duty police officers formed the Vengeance Squad at the start of these riots, whose cause was investigated by the McGucken commission. Tensions before these riots escalated after members of the 38th Street Gang were accused of killing Jose Diaz. That accusation led to the Sleepy Lagoon trial, which helped spark these riots. Pachucos fought against taxied-in US Navy men during these riots. For 10 points, name these Los Angeles riots that took place during World War II and which are named for a type of clothing worn by Mexicans.

ANSWER: **Zoot Suit** riots

149-13-64-11118

19. In a John Irving novel, this man inspired the name of a worrisome person in a white dinner jacket who frets about the precarious positions of bears and Jews and owns what will become the third and final Hotel New Hampshire. This man collaborated with John Gay and a more prolific author on the play *Three Hours After Morning*. One poem titled for this man caricatures John Hervey as the diseased bug Sporus, denounces the conceited Atticus and a man who "paid some bards with port, and some with praise" who is compared to a headless bust of Pindar, Bufo, and recalls the "peals of laughter" inspired by the bad poet Codrus. That poem titled for this man compares his medical skills to the poet's own ability to cure the world's sickness by satire, and begins "Shut, shut the door, good John." For 10 points, name this doctor to whom Alexander Pope wrote a satirical "epistle."

ANSWER: Dr. John **Arbuthnot**

019-13-64-11119

20. In one play by this author, a woman chastises her husband for using their baby food money to secure the down payment on a house. This author slammed *New Republic* theater critic Robert Brustein in his manifesto "The Ground on Which I Stand." In another of his plays, a man complains about the incompetence of the stuttering Sylvester and treasures his expensive Florsheim shoes, stabbing Toledo for accidentally stepping on them. In his most famous play, a woman admits to giving "eighteen years of my life to stand in the same spot with you" after her learning of her husband's affair with Alberta; that husband prevents his son Cory from playing football, bitter about having to give up his own boyhood dream to become a garbage-man. For 10 points, name this author of *Jitney*, *Ma Rainey's Black Bottom*, and *Fences*, three plays in his Pittsburgh cycle.

ANSWER: August **Wilson**

020-13-64-11120

21. This man compared using poetry to eliminate the pain of his unrequited love to rivers that "purge sea waters' fretful salt away" in a poem that ends "a little wise, the best fools be." Another of his poems urges "love me that I may die the gentler way, hate me because they love's too great for me." This author of "The Triple Fool" and "The Prohibition" wrote to the Countess of Bedford about "the spider love, which transubstantiates all, and can convert Manna to gall" in "Twickham Garden." He suggested "ride ten thousand days and nights, til age snow white hairs on thee" in a poem listing impossible tasks such as "tell me where all past years are, or who cleft the devil's foot" that begins "go and catch a falling star." Another of his poems ends "except you enthrall me, never shall be free, nor ever chaste, except you ravish me" and asks "batter my heart, three-personed God." For 10 points, name this author of "A Valediction: Forbidding Mourning" and the Holy Sonnets, a Metaphysical poet.

ANSWER: John **Donne**

019-13-64-11121



1. Members of this movement were influenced by Georg Brandes's critical study *Main Currents in 19th Century Literature*. For 10 points each:

[10] Name this movement, which produced the novels *Lucky Per* by Henrik Pontoppidan, *The Old Apothecary* by Sophys Schandorph, and *The Learner of German* by Karl Gjellerup, and represented the advent of realism in Scandinavian literature, particularly in Denmark.

ANSWER: the **Modern Breakthrough** [or Det **Moderne Gennembrud**]

[10] This Modern Breakthrough novel by Martin Andersen Nexø discusses Lasse Karlsson and his son's move from Sweden to Denmark. It was made into a lauded 1987 film directed by Bille August.

ANSWER: ***Pelle the Conqueror*** [or ***Pelle Erobreren***]

[10] This later Danish author wrote "The Blank Page," "The Deluge at Norderney," and *Out of Africa*.

ANSWER: Isak **Dinesen** [or Karen **Blixen**]

019-13-64-11201

2. Article 35 of the Thirty-Nine Articles mandates the reading of these at church. For 10 points each:

[10] Name this set of two books that contains thirty-three pre-written sermons for Anglican priests. The longest one is entitled "On Peril of Idolatry" and details how false religious practices led to the worship of idols.

ANSWER: The Books of **Homilies** [or *Certain Sermons or **Homilies** Appointed to Be Read in Church*]

[10] This man wrote most of the Homilies. He also compiled the first two editions of the *Book of Common Prayer* as Archbishop of Canterbury under Edward VI.

ANSWER: Thomas **Cranmer**

[10] The implementation of the *Book of Common Prayer* resulted in this reagent of Edward VI sending John Russell to Cornwall and Devon to quell a rebellion. This man fled to Windsor Castle after essentially taking Edward VI prisoner.

ANSWER: Edward **Seymour**, 1st **Duke of Somerset** [take either]

149-13-64-11202

3. Mary Pickford, the most important and powerful silent era actress, introduced this actress and her sister, Dorothy, to D.W. Griffith. For 10 points each:

[10] Identify this silent film actress best known for her roles in *Birth of a Nation* and *Broken Blossoms*.

ANSWER: Lillian **Gish**

[10] This Griffith movie culminates in the dramatic rescue of the Lillian Gish-played Anna after she is turned out into a snowstorm and faints on a frozen river, where she is carried away on an ice floe.

ANSWER: ***Way Down East***

[10] D.W. Griffith, Charlie Chaplin, Mary Pickford and her husband Douglas Fairbanks founded this studio in 1919. This studio distributed Griffith's *Broken Blossoms*, *Way Down East*, and *Orphans of the Storm*, as well as Pickford's *Pollyana* and *Coquette*.

ANSWER: **United Artists** Corporation [or **UA**]

066-13-64-11203

4. During the 2011 reading of the Constitution, this representative read the first amendment into the Congressional record, and sponsored a 2007 bill to ban the sale of F-14 parts. For 10 points each:

[10] Name this three-term “Blue Dog” Democratic representative from Arizona who hosted a tragic “Congress On Your Corner” event in January 2011.

ANSWER: Gabrielle Dee **Giffords**

[10] Gabby Giffords' would-be-assassin was one of these people who probably like to stop you and tell you about the temperature that steel melts at and rant about “controlled demolitions.” These people usually assume that someone, somewhere in the Bush Administration is some kind of grand mastermind.

ANSWER: **9/11 truthers**

[10] This movie was released four separate times in four separate versions, with the finale being subtitled “An American Coup.” Director Dylan Avery attempted to debate the editors of Popular Mechanics as the plausibility of its arguments.

ANSWER: **Loose Change**

002-13-64-11204

5. The god of dawn, Khepri, took this animal form. For 10 points each:

[10] Name these insects which were depicted on scarabs in Egyptian culture.

ANSWER: dung **beetles** [or **Scarabaeoidea**; or **Scarabus sacer**]

[10] The hieroglyphic for scarab is similar to the one for Ptah, a creator god who was part of a triad of deities local to this city, along with Nefertem and Sekhmet. This city, whose necropolis was Saqqara, also worshipped Apis, Ptah's herald.

ANSWER: **Memphis**

[10] Two click beetles served as an early symbol for this creator goddess, the patron deity of Sais in the Nile Delta. She was depicted with arrows crossed over a shield in her role as goddess of war, and as the suckler of crocodiles in her role as the mother of Sobek.

ANSWER: **Neith**

020-13-64-11205

6. This thinker advocated an "emic-etic distinction" for evaluating the reliability of firsthand accounts of a culture in his *The Rise of Anthropological Theory*. For 10 points each:

[10] Name this author of *Cows, Pigs, Wars, and Witches* who formulated the theory of "cultural materialism."

ANSWER: Marvin **Harris**

[10] Harris's *Cannibals and Kings* suggests that Aztec ritual sacrifice, as well as Yanomamo warfare, can be explained as attempts to meet this need, which is difficult to fulfill in pre-industrial Latin America.

ANSWER: consumption of **protein**

[10] Harris disputed with this man over whether the Yanomamo ate more protein daily than could be provided by a Big Mac. This author of *The Fierce People* was criticized by Patrick Tierney in *Darkness at El Dorado*.

ANSWER: Napoleon **Chagnon**

019-13-64-11206

7. This man's success helped give legitimacy to the Propaganda Movement, and this man's historical paintings included depictions of *The Battle of Lepanto* and *The Death of Cleopatra*. For 10 points each:
[10] Name this painter that also included Rajah Sikatuna in his depiction of a scene from his homeland's history, *The Blood Compact*.

ANSWER: Juan **Luna**

[10] This country was home to Juan Luna, and an artist from this country depicted women with baskets of fruit in the shade of a mango tree. The Manunggal Jar was found in this island nation's city of Quezon.

ANSWER: **Philippines**

[10] The first painting of note by Fabian de la Rosa is a depiction of women in a field in which this foodstuff is being grown. This staple crop is also used as a medium of extremely talented artists determined to make tiny paintings.

ANSWER: **rice**

002-13-64-11207

8. Glycogen phosphorylase is an example of an enzyme that is regulated by this method and allosteric regulation. For 10 points each:

[10] Identify this form of enzyme activity regulation whose most prominent example is phosphorylation.

ANSWER: post-translational **covalent** modification [or **covalent** regulation]

[10] Phosphorylation is an example of covalent modification that has this property because the attached phosphate group can be removed. Types of enzyme inhibition that have this property include competitive, uncompetitive, mixed and non-competitive.

ANSWER: **reversible** [or word forms]

[10] Phosphatases remove the phosphate group attached in phosphorylation by catalyzing this reaction. It's also how the phosphate groups of ATP are removed to form ADP or AMP.

ANSWER: **hydrolysis** [prompt on **saccharification**]

066-13-64-11208

9. This man was Prime Minister of France during a period known as the "Cohabitation." For 10 points each:

[10] Name this man who attacked Giscard d'Estaing in his Call of Cochin.

ANSWER: Jacques **Chirac**

[10] Jacques Chirac secured his second term as French president in this year with his victory over Jean-Marie Le Pen. During the election in this year, a poster supporting Chirac read "Vote for the Crook, not the Fascist."

ANSWER: **2002**

[10] Chirac was convicted of corruption while serving in this position. He won this position by beating Michel d'Ornano.

ANSWER: **Mayor** of **Paris**

149-13-64-11209

10. In one of this author's stories, the narrator gets "drunker and drunker and more in love and more in love" as a wire is rigged to the testicles of a captured Comanche. For 10 points each:

[10] Name this author of "The Indian Uprising," "At the Tolstoy Museum," and "Porcupine at the University," collected in volumes like *Sixty Stories* and *Forty Stories*.

ANSWER: Donald **Barthelme**

[10] Barthelme is a prime exemplar of this literary style, rife with unreliable narration, metafiction, fragmentary writing, fabulation, and experimental fun times. *Infinite Jest* is probably the most famous example of a novel written in this style.

ANSWER: **postmodern** literature [or word forms; prompt on **pomo**]

[10] In this postmodern classic by John Hawkes, with an introduction supplied by Leslie Fiedler, the English couple Michael and Margaret Banks are thrown into the bloody world of racehorse heists.

ANSWER: *The **Lime Twig***

020-13-64-11210

11. The book *Why We Struck* is about this failed coup. For 10 points each:

[10] Name this 1966 Nigerian coup led by Kaduna Nzeogwu that resulted in Johnson Aguiyi-Ironsi coming to power.

ANSWER: **Coup of the Five Majors** [or **Nigerian Counter Coup of 1966**]

[10] Aguiyi-Ironsi was shortly after replaced by this man who agreed to make Nigeria a federation in the Arubi accord. This man annexed Port Hartcourt and created his "no victor, no vanquished" policy after accepting Olusegun Obasanjo's surrender.

ANSWER: Yakuba **Gowon**

[10] Yakuba Gowon successfully defeated this breakaway republic that was led by Odumegwu Ojukwu.

ANSWER: Republic of **Biafra**

149-13-64-11211

12. At the end of this novel, Richard Somers leaves for America and plans to refocus on his marriage to Harriet. For 10 points each:

[10] Name this 1923 novel in which Benjamin Cooley's "Diggers" movement brawls with the socialist party of Willie Struthers and plots the fascist takeover of Australia.

ANSWER: **Kangaroo**

[10] This author of *Kangaroo* also wrote *The Boy in the Bush*, *Mr. Noon*, and *Women in Love*.

ANSWER: David Herbert **Lawrence**

[10] Lawrence's description of Australia in *Kangaroo* helped inspire this Australian nativist literary movement. Naming itself from a Wuywuring word for "annexation," this movement included *Capricornia* by Xavier Herbert and took as its manifesto Rex Ingamells's speech *On Environmental Values*.

ANSWER: **Jindyworobak**

019-13-64-11212

13. Answer the following about www.oneweirdkerneltrick.com, which contains the work of David Fouhey and Daniel Maturana for SIGBOVIK 2013. For 10 points each:

[10] One can use the titular one weird kernel trick to find this thing, which is used to delineate data from two data classes in support vector machines. One usually wants to maximize its margin.

ANSWER: the separating **hyperplane** [or **decision boundary**]

[10] In the paper "Cat Basis Pursuit", Fouhey and Maturana mention the problems of purrincipal catponent analysis and lament that it does not provide a basis of this type. This term is generally applied to matrices that consist mostly of zeros, for some definition of mostly, and they often appear in numerical analysis of PDEs.

ANSWER: **sparse** [or **spurse**]

[10] In their papers on n-polytope schemes, which are not pyramid schemes, and "The Kardashian Kernel", Fouhey and Maturana mention in passing the "curse" that occurs when using too many of these. It's also what the "n" refers to n-polytope.

ANSWER: number of **dimensions**

066-13-64-11213

14. Some of this composer's better-known works include the motet *O quam gloriosum* and the Mass he based on it. For 10 points each:

[10] Name this Renaissance composer, who composed *Officium defunctorum* after the death of Empress María.

ANSWER: Tomás Luis de **Victoria** [or Tomás Luis da **Vittoria**]

[10] Victoria composed at least ten combined settings of the *Salve regina*, *Alma Redemptoris*, *Ave regina* and *Regina coeli*, which are grouped together as antiphons named for this Christian figure. She is also the subject of the many settings of *Ave Maria*.

ANSWER: Blessed Virgin **Mary**, Mother of God [prompt on **Marian**; do not accept or prompt on "Theotokos" or "Maryam"]

[10] This Marian hymn depicts the Sorrows of the Blessed Virgin Mary. Antonin Dvorak finished his very long setting of this hymn after his first three children died and much of Giovanni Pergolesi's posthumous fame lies with his setting of it.

ANSWER: ***Stabat Mater*** *dolorosa* [do not accept "*Stabat Mater speciosa*"]

066-13-64-11214

15. This thinker announced that "contemporary moral philosophy has found an original way of being boring: by not discussing moral issues at all" in his 1972 book *Morality*. For 10 points each:

[10] Name this opponent of utilitarianism and advocate of wholly internal reasons, who argued against the idea that conflicting moral values require the discarding of one value in the "Ethical Consistency" section of his *Problems of the Self*.

ANSWER: Bernard **Williams**

[10] This 1981 book by Williams is named for the seventh principle of his "morality system" and explains why murder is punished more harshly than attempted murder; it names the phenomenon by which circumstances besides the intention of the moral actor determine the morality of his actions.

ANSWER: ***Moral Luck***

[10] This Williams essay, subtitled "Reflections on the Tedium of Immortality," sets out a case for the value of death, and is named for a Karel Capek play about an immortal woman.

ANSWER: "The **Makropoulos Case**"

019-13-64-11215

16. This album includes the use of a theremin on a song later covered by Weezer, in which the singer claims "we will wade in the shine of the ever", and "hold my head we'll trampoline". For 10 points each:
[10] Name this album that includes the singles "Dig a Fire" and the aforementioned "Velouria".

ANSWER: **Bossanova**

[10] Bossanova was the third album by this alternative band, and marked the high point of Black Francis's creative control. Kim Deal was the only applicant to a classified ad for a bassist for this band, even though she had never played bass before.

ANSWER: The **Pixies**

[10] This short song was the final track on the album *Bossanova*. In it, the singer is "walking in the breeze on the plains of Arizona, among the trees".

ANSWER: "**Havalina**"

002-13-64-11216

17. OpenFOAM is a popular software package used in this field. For 10 points each:

[10] Identify this subfield of fluid mechanics concerned with numerical solutions to fluid flows.

ANSWER: **CFD** [or **computational fluid dynamics**; prompt on **computational** fluid mechanics; prompt on **CFM**]

[10] Of the many numerical methods used in CFD and other PDE problems, this one is probably the most common, beating out the finite difference and finite-volume methods.

ANSWER: **finite element** method [or **finite element** analysis; or **FEM**; or **FEA**]

[10] The finite element method was originated by Richard Courant, who proposed using piecewise linear functions on this type of mesh, which was used because squares, hexagons, and this shape are the only regular tessellation of a plane.

ANSWER: **triangular** [or word forms]

066-13-64-11217

18. In his address before the Phi Beta Kappa society at Harvard, this poet spoke of "thy fetters -- seas and stormy air," near the end of his poetic history of the world in thirty-five Spenserian stanzas. For 10 points each:

[10] Name this author of "The Ages," a *New York Evening Post* editor better known for "To a Waterfowl" and "Thanatopsis."

ANSWER: William Cullen **Bryant**

[10] In this Bryant sonnet, the speaker argues that "pain dies as quickly" as "short-lived pleasure," and thus proclaims "a stable changeless state" as "cause indeed to weep."

ANSWER: "**Mutation**"

[10] Late in life, Bryant undertook this kind of project, perhaps having read Matthew Arnold's 1860 Oxford lectures on the subject. Scholars generally agree that Richmond Lattimore's version of this kind of project is pretty dope.

ANSWER: **translating Homer** into English [or **translating the *Iliad***; or **translating the *Odyssey***; or other obvious answers that demonstrate this knowledge]

020-13-64-11218

19. A donation of art by this man forms the core of the collection at a UCLA art museum. For 10 points each:

[10] Name this businessman who ran Occidental Petroleum. He was pardoned by George H. W. Bush for illegally donating money to one of Nixon's presidential campaigns.

ANSWER: Armand **Hammer**

[10] This senator had a close relationship with Armand Hammer. This Tennessee senator once proposed creating a radiation belt to separate North and South Korea.

ANSWER: Al **Gore Sr.**

[10] Gore Sr., along with Lyndon Johnson and Estes Kefauver, was one of three Democrat senators from former Confederate states to not sign this document. Strom Thurmond and Richard Russell wrote this document that opposed integration.

ANSWER: **Southern Manifesto**

149-13-64-11219

20. One species in this genus is commonly diagnosed using the germ-tube test and that species is usually behind vaginal yeast infections. For 10 points each:

[10] Identify this genus that includes such species as *albicans*, *glabrata*, *tropicalis*, and *parapsilosis*.

ANSWER: **Candida**

[10] *Candida albicans* is an example of this type of pathogen, which is normally harmless or commensal, but can cause disease when their host's resistance is low, such as when the immune system is compromised or the population of normal microbes is disrupted by broad-spectrum antibiotics.

ANSWER: **opportunistic** [or word forms]

[10] This type of pneumonia is common in immunocompromised patients. It is caused by the *jiroveci* species of a namesake fungal genus.

ANSWER: **Pneumocystis** pneumonia [or **PCP**; or **PJP**]

066-13-64-11220

21. The last two works in this set of compositions quote from the hymn "Ye who are God's warriors". For 10 points each:

[10] Identify this set of compositions that also depicts the warrior Sarka.

ANSWER: **Má vlast**

[10] This second symphonic poem of *Má vlast* adopts the tune of *La Mantovana*.

ANSWER: *Die* **Moldau** [or **Vltava**; or *The* **Moldau**]

[10] *Má vlast* was composed by Bedrich Smetana, a composer of this nationality. These West Slavic people also include the Bohuslav Martinu, the composer of *The Opening of the Wells*.

ANSWER: It's a **Czech**! [do not accept "Czechoslovakian"]

066-13-64-11221