



1. This author wrote a children's book in which the body of a dead snake is used as a clothesline after 297 eggs are eaten. In a novel by him, the devout bookshop owner Bruno Rontini helps retrieve a Degas painting, but is imprisoned by Fascists as a result, after uncle Eustace promises to buy a new tuxedo for teenage poet Sebastian Barnack. This author of *The Crows of Pearblossom* and *Time Must Have a Stop* also wrote a novel in which the painter Ivor Lombard is frightened away by the psychoanalysis-obsessed Mary Bracegirdle, and Priscilla uses astrology to bet on horse races. In that novel by this author, the wishy-washy poet Denis Stone fails in his pursuit of Anne Wimbush at the title estate. For 10 points, name this author of *Crome Yellow* who also penned *Point Counter Point* and *Brave New World*.

ANSWER: Aldous **Huxley**

019-13-64-12101

2. A leader of this country, according to Frederick Kempe's *Divorcing the Dictator*, was a fan of yellow patent-leather shoes. A book entitled *Our Man in this Country* was written by John Dinges. A leader of this country organized the ousting of Nicolas Barletta, who was replaced by Eric Delvalle. Harmodio Arosemena was ousted by a coup led by Arnulfo Arias in this country. Operation Nifty Package sunk the boat of a leader of this country, who subsequently hid in its Vatican diplomatic mission. Guillermo Endara was left in control of this country after an invasion that involved the incessant playing of rock music. Operation Just Cause ousted Manuel Noriega from power in this country, which had been led by a man who died in a plane crash, Omar Torrijos. For 10 points, Jimmy Carter signed a treaty returning a large canal to what Latin American country?

ANSWER: Republic of **Panama**

149-13-64-12102

3. Examples of evolution equations for this technique include BFKL and DGLAP, which are written in terms of splitting functions. Two functions for this technique,  $F_1(x)$  and  $F_2(x)$ , where  $x$  is a scaling variable, are related by a factor of two  $x$  according to the Callan-Gross relation. This technique is usually symbolized as small l plus capital N goes to small l-prime plus capital X. The structure functions of this technique depend only on the ratio of  $\nu$  over  $q$  squared in the limit of  $\nu$  and  $q$  squared going to infinity, which is known as Bjorken scaling. That phenomenon led Richard Feynman to introduce the parton model for this technique. This technique typically consists of colliding a high-energy lepton with a hadron, in order to probe its structure. For 10 points, identify this technique that gave the first direct evidence of quarks.

ANSWER: **deep inelastic scattering** [or **DIS**; prompt on **hard** process]

066-13-64-12103

4. This man proposed the use of a “barcode” design for the flag of a unified Europe. This co-founder of Volume Magazine discussed the implementation of “Manhattanism” in his *S, M, L, XL*. This designer of the Prada store in Beverly Hills designed the new building of the Shenzhen Stock Exchange and used a pair of connected towers with a large overhang in his design of the CCTV Headquarters building. This man designed “The Jewel Box” for the short-lived Guggenheim Museum in Las Vegas, and his Bicentennial Tower project would have been the tallest in Latin America, but was canceled by Mexico City. For 10 points, name this Dutch architect that won the 2000 Pritzker Prize and designed the Casa de Musica in Porto.

ANSWER: “Rem” **Koolhaas** [or Remment Lucas **Koolhaas**]

002-13-64-12104

5. This book explains the role of circumstances in truth by justifying a grammar-school textbook's inclusion of the claim "Lord Raglan won the battle of Alma," and it declares that it will "play Old Harry with" both "the true/false fetish" and "the value/fact fetish." One concept in this book is explained as possibly failing due to a lack of "uptake," such as the refusal of a bet. The example of naming a ship the *Queen Elizabeth* is described in this book as a "misfire," which lacks authority, as opposed to an "abuse." Those are ways in which this book's condition of being "felicitous" might not be met. This book divides a concept, based on whether it requires an effect in order to succeed, into illocutions and perlocutions, the latter of which might include alarming or persuading. For 10 points, name this book which discusses various kinds of "speech acts" and was written by J.L. Austin.

ANSWER: *How To Do Things With Words*

019-13-64-12105

6. Notable landmarks in this city include the ultramodern José Vasconcelos Library, designed by Alberto Kalach. Jerónimo de Balbás, while working on the Altar of Kings for a cathedral in this city, introduced the estipite to its country. Claudio de Arciniega designed that cathedral, the Metropolitan, which is located on the north side of the Zócalo. The Paseo de la Reforma, modeled after the Champs-Élysées, cuts through this city and contains one of its most recognizable monuments: a victory column topped by a giant golden angel. Juan O'Gorman designed a residence and studio for Frida Kahlo and Diego Rivera in this city, and it contains one of the largest parks in the Western Hemisphere in its Bosque de Chapultepec. For 10 points, identify this city whose National Museum of Anthropology contains the Aztec calendar stone.

ANSWER: Mexico City

066-13-64-12106

7. This character's father lured a snake with a white lamb, then killed it by offering it a bowl filled with poisonous sap to slake its thirst. This character broke a promise not to steal anything by reaching for some water after being fed a particularly spicy meal. In another source, this character hailed from a sun-worshipping state, and is instructed to walk on a floor polished like glass, which displays the reflection of her cloven foot, a feature she has because her mother had sex with a goat. The *Kebrá Nagast* describes how this woman's son brought the Ark of the Covenant to his kingdom. Also known as Makeda, this woman is best known for testing her lover with hard questions, then exchanging gifts with him. For 10 points, name this woman who originated the Ethiopian royal line by conceiving a child with King Solomon, to whose court she journeyed.

ANSWER: Queen of Sheba [or queen of Saba; or Malkat Saba; or Malikat Saba or Negesta Saba; or Makeda until it is read]

020-13-64-12107

8. Analogs of this organelle can be studied using a Langmuir trough. Although not fixing mitochondria, osmium tetroxide is a widely used stain for this organelle. This organelle is split into an E half and a P half when studied using freeze-fracture replication. Frye and Edidin used the Sendai virus to fuse two of these organelles in an experiment that showed proteins could diffuse through them. Common compounds that give this organelle its structure include serine, choline, and ethanolamine. Sealing strands are found between two of them in a tight junction. The modern model of this structure is the fluid mosaic model. For 10 points, identify this phospholipid bilayer that surrounds the cytoplasm of a cell.

ANSWER: plasma membrane [or cell membrane; or biological membrane; prompt on cell surface; prompt on phospholipid bilayer; prompt on fats]

066-13-64-12108

9. On the opposite wall from this text, a poem by Minimus which praises the "friend of fatherless, fountain of happiness" is inscribed. Immediately after this text disappears, a radio is purchased and subscriptions are taken out to "*John Bull*, *TitBits*, and the *Daily Mirror*." These sentences are originally displayed with a backwards "S" and the word "friend" misspelled "f-r-e-i-n-d." After a crash is heard at midnight one evening, a broken ladder is found near this writing, along with a lantern and a pot of white paint. Eventually, phrases such as "without cause," "to excess," and "with sheets" are added to these sentences, which originally prohibited drinking alcohol, sleeping in beds, and wearing clothes. Ultimately, the final one of these sentences replaces the entire set and is altered to note that some "are more equal than others." For 10 points, identify these proclamations originally painted on the wall of a barn by Snowball, which govern the rebellious pigs, dogs, and others in a George Orwell novel.

ANSWER: the Seven **Commandments of Animal Farm** [or descriptive equivalents such as the **rules of Animal Farm**; or the Seven **Commandments of Animalism**, etc.]

019-13-64-12109

10. Charges were leveled against this man for attempting to arrange the death of a man with whom he'd fought at the Roosevelt Hotel, Jared Sanders, Jr. Proceedings over those charges against this man were deemed constitutional by Percy Saint and led to the "Bloody Monday" brawl. Those charges were leveled against this man by the "Dynamite Squad" and Cecil Morgan. This man supposedly stated "why did that boy shoot me?" before dying at the hands of a person whose father-in-law this man had gerrymandered out of a court district. This man wanted to limit net worth to 300 times that of the average family as part of his Share Our Wealth program. That dream, supported by this man's "Every Man a King" slogan, died when this man was killed by Carl Weiss. For 10 points, name this "Kingfish" who served as Governor of Louisiana from 1928 to 1932.

ANSWER: Huey **Long**, Jr.

149-13-64-12110

11. One novel by this man describes a woman who is too kind to deny rumors which cause her fiancé to abandon her, and was originally published under a title meaning *Fallen Asleep While Young*. In another novel by this man, a farmhand is thrown out by his uncle after assisting in loosening wheel nuts on the carriages of guests, impregnates Rina, and is executed for his part in a socialist revolution. This author used the subtitle "an epic suite" to signal the plotless connection of vignettes and vistas that comprised a late novel which places several couples against a northern evening, and created Jussi Toviola in another novel. For 10 points, name this author of *The Maid Silja*, *People in the Summer Night*, and *Meek Heritage*, who was the only person from Finland to win the Nobel Prize for Literature.

ANSWER: Frans Eemil **Sillanpää**

019-13-64-12111

12. One law passed by this man's government required collective agreements to contain a disclaimer clause and led to the arrest of the Pentonville Five. An agreement negotiated by this man created a fourteen member Council of Ministers and a sixty member Consultative Assembly. This man's education minister stopped giving out free milk to young children, which led to her being called "the Milk Snatcher." Liam Cosgrave and this man negotiated the Sunningdale Agreement. This man called for one election after asking "Who governs Britain?" In response to the "Rivers of Blood" speech, this man dismissed Enoch Powell from his Shadow Cabinet. This man placed Northern Ireland under direct rule six weeks after Bloody Sunday. Great Britain entered the European Economic Community under the leadership of, for 10 points, what Conservative prime minister from 1970 to 1974?

ANSWER: Edward **Heath**

149-13-64-12112

13. Although it has nothing to do with biology, electroresistance analyzers, such as the Coulter counter, can be used to determine this property. The thickness of a capillary fringe is inversely proportional to fluid weight density and this property. This property can be expressed in phi units, a negative base-two logarithm scale, which simplifies its depiction on the Wentworth scale. The distribution of this property determines whether a certain thing is poorly-graded or well-graded. The Casagrande classification system was based primarily on this property and was modified to create the Unified Soil Classification System. For 10 points, identify this property of soil particles that can be roughly determined by passing them through successively smaller sieves.

ANSWER: particle **size** [or grain **size**; or sediment **size**; or obvious equivalents, such as particle **diameter** or particle **radius**]

066-13-64-12113

14. This composer's *Four Pieces for Violin and Piano* were dedicated to Karel Hoffmann, with whom this man often played music. After completing his most famous work, this composer wrote a cycle of symphonic poems that includes *Epilogue*, *Ripening*, and *A Summer's Tale*. That most famous work by this composer takes its Fate motif from the first and third movements of his *Fairy Tale* suite, which is an arrangement from incidental music he wrote for Julius Zeyer's *Radúz and Mahulena*. This composer played the second violin in the Bohemian, or Czech, Quartet for most of its life. That most famous work was started after his father-in-law died and, during the course of its composition, his wife, Otilie, also died. For 10 points, identify this composer of the *Asrael Symphony* and son-in-law of Antonín Dvořák.

ANSWER: Josef **Suk**

066-13-64-12114

15. This document considers the propositions "Authority is nothing else but numbers and the sum total of material forces" and dubs the institution it discusses "true and perfect." This document was issued in response to Charles Montalembert's call to accept an institution "in a free state" and sarcastically quotes from a decree closing certain schools in Piedmont. This document condemns what it calls "indifferentism," or lack of state concern for what religions are practiced, as well as several forms of rejection of absolute moral law in favor of democracy. This addendum to the *Quanta Cura* document was a reaction to anticlerical movements in Germany and Spain by Pius IX. For 10 points, identify this notorious 1864 encyclical, which listed several modern doctrines of individual liberty that the Catholic Church opposed.

ANSWER: The **Syllabus of Errors** [or **Syllabus Errorum**]

019-13-64-12115

16. While living in Seattle, this character ran a business called "Sherwood Florist". An autopsy revealed that this character had been tricked into marrying the cannibalistic shapeshifter Everyman. A ricochet during one of this character's battles led to a music teacher becoming the villain Discord. During the "One Year Later" timeskip, this character switched places with Lady Shiva, and mentors a young girl named Sin. This character helped form a new covert team after Barbara Gordon was crippled by the Joker. After the revelation that her husband had murdered Prometheus, she ended her marriage to Oliver Queen. For 10 points, name this core member of the Birds of Prey, with secret identity Dinah Lance, who fights crime in distinctive fishnets and can emit a supersonic scream.

ANSWER: **Black Canary**

002-13-64-12116

17. This chemist was the first to discover a reaction in which thermal or photochemical degradation of protonated aliphatic N-haloamines yields pyrrolidine or piperidine derivatives; that reaction is also usually named with Löffler and Freytag. The products of another reaction due to this chemist are used in the Passerini and Ugi reactions. That reaction uses primary amines and chloroform in the presence of alkali to synthesize isonitriles. Because another reaction named for this chemist occurs by an E1cB-like E2 mechanism, the highest yield is of the least substituted alkene, which is the opposite of Zaitsev's rule. That reaction is an elimination in which a primary amine is treated with methyl iodide and aqueous silver oxide. Although not Curtius, a rearrangement named for this chemist uses a basic hypohalite and occurs via an isocyanate intermediate. That rearrangement is used to convert carboxylic amides into primary amines with one less carbon atom. For 10 points, identify this German chemist whose rearrangement is usually called his degradation.

ANSWER: August Wilhelm von **Hofmann**

066-13-64-12117

18. This was the first battle at which Jozef Kosacki's mine detector was used. A Victoria Cross was awarded to Victor Turner at this battle for his defense of Outpost Snipe. A collection of mines and barbed wires at this battle were known as Devil's gardens. A general in this battle, which saw fighting at Kidney Ridge, had, two months before, replaced Claude Auchinleck. According to one person, this battle was "not even the beginning of the end". One attempt to capture Tel el Aqqaqir at this battle by the Eighth Army was known as Operation Supercharge. This battle was dubbed "perhaps, the end of the beginning" by Winston Churchill. For 10 points, name this World War II victory in Africa that forced Erwin Rommel to retreat before Bernard Montgomery.

ANSWER: Second Battle of **El Alamein**

149-13-64-12118

19. The title object stands alone beside an oasis in a rocky countryside in this man's painting *Cross in the Wilderness*. The Cleveland Museum of Art is home to a work by this man in which bright red clouds are partially reflected in a river below, and that work is this man's depiction of *Twilight in the Wilderness*. This man included a ship sailing along under an arc of light in his painting of the *Aurora borealis*. A billow of smoke arises from the title volcano in a work by this man, and a stream runs down to the front of another painting by this man, as the title mountains tower over the landscape. For 10 points, name this painter and member of the Hudson River School, whose tours of South America inspired paintings like *Cotopaxi* and *Heart of the Andes*.

ANSWER: Frederic Edwin **Church**

002-13-64-12119

20. Readers seem to like this author's character Hurricane Nell, who is capable of divination and living unharmed among wild animals. In one novel by this author, a peddler who sells clocks that chime thirty-one times every day gets off scot-free thanks to the crooked lawyer Peter Pippin, and the couple Ralph and Edith fight against the title leader of the Pony Club. This author's strongest literary output includes a Gothic romance about a man who murders Emily and gets ratted out by his best friend, as well as his sympathetic portrayal of a 1715 Indian uprising, but he's most notorious for one of his eight novels about the Revolutionary War, a prominent anti-Tom book. For 10 points, name this magnificently-bearded author of *Guy Rivers*, *Martin Faber*, *The Yemassee*, the racist Southerner author of *The Sword and the Distaff*.

ANSWER: William Gilmore **Simms**

020-13-64-12120

21. This man once ended an obituary by noting that the subject was "a fool, and nearly a clown, but he was never even remotely a comedian" in his article entitled "Bob Hope Wasn't Funny." He provided an affidavit to the Clinton impeachment proceedings saying that Sidney Blumenthal lied in grand jury testimony, just before releasing his anti-Clinton book *No One Left to Life To*. For "Books That Changed the World," he wrote a "biography" of Thomas Paine's *Rights of Man*. He criticized his subject's affiliations with Charles Keating and Baby Doc Duvalier in his book on Mother Theresa, *The Missionary Position*. Chapters such as "There is No Eastern Solution" and "The Koran Is Borrowed From Both Jewish and Christian Myths" make up his 2007 polemic *God Is Not Great*. For 10 points, name this British-born political columnist known for his self-identification as a Marxist supporter of the war in Iraq.

ANSWER: Christopher **Hitchens**

019-13-64-12121



1. In the first section of this cycle, "The Grey Notebook," homoerotic messages to Daniel de Fontanin are intercepted, causing Jacques to attempt to flee to Africa. For 10 points each:

[10] Name this lengthy novel cycle, which follows a French family from 1904 to 1914 and ends after Meynestrel dies in a plane crash and Jacques sees the assassination of Jean Jaurès while eating with Jenny de Fontanin.

ANSWER: *The **Thibaults*** [or *Les **Thibault***]

[10] This author of *The Postman* and the Dreyfus Affair commentary *Jean Barois* wrote *The Thibaults*.

ANSWER: Roger **Martin du Gard** [do not accept or prompt on partial answer]

[10] In the second part of *The Thibaults*, Jacques is found in one of these places; Jean Genet and Marco Polo wrote most of their output in this kind of location, and *The Enormous Room* takes place in one.

ANSWER: a **prison** [or **jail** or **dungeon** or whatever]

019-13-64-12201

2. Some scholars believe that this man was Shoorsaini. For 10 points each:

[10] Name this Hindu king of Paurava who lost to Alexander the Great at the Battle of the Hydaspes.

ANSWER: King **Porus**

[10] King Porus and his son lost power over the Punjab region to this man, the founder of the Mauryan empire. After taking up Jainism at the behest of Bhadrabahu, this man fasted to death at Shravan Belgola.

ANSWER: **Chandragupta** Maurya

[10] It is possible that this man organized a plot to poison King Porus. This man served as chief advisor to Chandragupta and Bindusara.

ANSWER: **Chanakya** [or **Kautilya**; or **Vishnu Gupta**]

149-13-64-12202

3. In this formalism, the names of syntactic categories are written in angle brackets, which is followed by the symbol colon-colon-equal sign. For 10 points each:

[10] Identify this formalism used to describe the syntax of ALGOL 60 and to formally define the grammar of programming languages. It is commonly used in an extended form, which adds regular expression wildcards.

ANSWER: **BNF** [or **Backus-Naur** formalism; or **Backus normal** formalism; or "form" or "notation" in place of formalism]

[10] As Wikipedia notes, one should not confuse BNF with this doobly-eponymous database normal form that is slightly stronger than 3NF.

ANSWER: **BCNF** [or **Bocye-Codd normal** form]

[10] This MIT linguist established a hierarchy, which he sometimes names with Schützenberger, of formal languages in terms of their generative powers; that hierarchy places regular grammars as a subset of context-free grammars, which are a subset of context-sensitive grammars, which are a subset of unrestricted grammars.

ANSWER: Noam **Chomsky** [or Nim **Chimpsky**]

066-13-64-12203

4. Cinematographer Gregg Toland was responsible for the widespread use of this technique in the film *Citizen Kane*, which popularized it. For 10 points each:

[10] Identify this technique in which the foreground, midground and background objects are all simultaneously in sharp focus.

ANSWER: **deep focus** [or **deep space**]

[10] This *Cahiers du cinéma* co-founder greatly favored the long take and deep focus. A collection of his writing was published under the title *What is Cinema?*

ANSWER: André **Bazin**

[10] This first Truffaut feature was dedicated to André Bazin. This film introduced the recurring character of Antoine Doinel.

ANSWER: *The **400 Blows*** [or *Les **Quatre Cents Coups***]

066-13-64-12204

5. This woman was courted by a river god who appeared, according to various traditions, to either his rival or her father as a bull, a snake, and a man. For 10 points each:

[10] Name this woman who later accidentally killed her husband with the blood of another river-dweller.

ANSWER: **Deianeira**

[10] This river god lost a horn while fighting Heracles for the right to marry Deianeira. Some sources consider him the father of the Sirens.

ANSWER: **Achelous**

[10] This member of the Epigoni was freed from the Furies, who pursued him after the murder of his mother Eriphyle, when he found a recently-created island at the mouth of the river Achelous.

ANSWER: **Alcmaeon**

105-13-64-12205

6. Erik Sandewall proposed a "fluent occlusion solution" to this problem, whose naïve solutions fail to address the "Yale shooting problem." For 10 points each:

[10] Identify this philosophical problem regarding what beliefs should change in response to an action, rooted in a same-named issue in artificial intelligence about specifying factors which should not change in a logical scenario.

ANSWER: the **frame** problem

[10] The frame problem was outlined in "Some Philosophical Problems from the Standpoint of Artificial Intelligence," an article by Patrick Hayes and this man, the creator of the LISP language and coiner of the term "artificial intelligence."

ANSWER: John **McCarthy**

[10] This man, who was criticized by Jacques Derrida in *Limited, Inc.*, cites the frame problem in "Minds, Brains, and Programs" as a reason for the impossibility of artificial intelligence, a conclusion he also reached with the "Chinese room" argument.

ANSWER: John **Searle**

019-13-64-12206



7. This biologist denatured a certain protein with a solution of mercaptoethanol and urea and saw its activity restored when both mercaptoethanol and urea were removed, but not when only mercaptoethanol was removed. For 10 points each:

[10] Identify this biologist who demonstrated that "sequence determines structure".

ANSWER: Christian Boehmer **Anfinsen**

[10] This was the protein used by Anfinsen in his studies. Stanford Moore and William Stein's elucidation of its primary structure made it the first protein to have its sequence revealed and it's found in large quantities in the bovine pancreas.

ANSWER: pancreatic **ribonuclease A** [or pancreatic **RNase A**]

[10] Ribonuclease A has four of this type of bond. This type of bond is formed between the thiol groups of cysteine residues and it occurs between two sulfurs.

ANSWER: **disulfide** bond [or **disulfide** bridge]

066-13-64-12207

8. Clara Zetkin and Leo Jogiches belonged to this group. For 10 points each:

[10] Name this group whose worldview was outlined in their "Junius" pamphlet. This group desired the "re-conquest of the Party from the bottom up."

ANSWER: **Spartacus** League [or **Spartakusbund**; or **Spartacists**; prompt on "KPD" or "Communist Party of Germany"]

[10] This person co-led the Spartacus League. The founder of "The Red Flag" newspaper, this person was possibly killed by Hermann Souchon before being thrown in the Landwehr Canal.

ANSWER: Rosa **Luxemburg**

[10] The Spartacist League was put down by the right-wing *Freikorps* on the orders of Friedrich Ebert, who led this government. This government led post-WWI Germany through a period of hyperinflation.

ANSWER: **Weimar Republic**

149-13-64-12208

9. This poem ends by noting that the title group's "sob in the silence curses deeper than the strong man in his wrath." For 10 points each:

[10] Name this poem which starts with a quote from *Medea* and compares the title people to "lambs bleating in the meadows" and "birds chirping in the nest," a condemnation of underage labor.

ANSWER: "The **Cry of the Children**"

[10] This author of "The Cry of the Children" included "The face of all the world is changed," "I thought once how Theocritus had sung," and "Go from me" in a later collection.

ANSWER: **Elizabeth Barret Browning** [prompt on **Browning**]

[10] This poem from that later collection, *Sonnets from the Portuguese*, offers "freely, as men strive for right," "with a passion put to use in my old griefs," and "better after death" as answers to the first line's question.

ANSWER: "**How do I love thee?** Let me count the ways" [or Sonnet **43**]

019-13-64-12209

10. One candidate for this office claimed that the 2013 elections would be "the funnest campaign ever" for her. For 10 points each:

[10] Name this position that in early summer 2013 many assumed would be filled by Scott Stringer after John Liu elected not to seek re-election to this position.

ANSWER: **Comptroller of New York City** [or **Comptroller of NYC**]

[10] This candidate was forced to resign as governor of New York after the New York Times revealed he had been caught using Emperors Club VIP to hire a \$1,000 an hour hooker multiple times. He is running for Comptroller against the madam that he paid for the aforementioned prostitutes.

ANSWER: Eliot **Spitzer**

[10] Eliot Spitzer has certainly profited from this sexting addict's attempt to become mayor. The media has turned on his wife, Huma Abedin, attacking her for staying with her husband as his political career goes down in flames...again.

ANSWER: Anthony **Weiner** [or Carlos **Danger**]

002-13-64-12210

11. This poem ends "I cheer a dead man's sweetheart, never ask me whose." For 10 points each:

[10] Name this poem that asks a question followed by "That I was used to drive, and hear the harness jingle, when I was a man alive?" and contains the famous self-parody "The goal stands up, the keeper, stands up to keep the goal."

ANSWER: "**Is My Team Ploughing?**"

[10] "Is My Team Ploughing?" appears along with "Terence, This is Stupid Stuff" and "To an Athlete Dying Young" in this poetry collection.

ANSWER: A **Shropshire Lad**

[10] The final stanza of "Terence, This is Stupid Stuff" discusses "a king reigned in the East" "with poisoned meat and poisoned drink" who "poured strychnine in his cup," concluding with this four-word line about the king's fate.

ANSWER: "**Mithridates, he died old**"

019-13-64-12211

12. This man's younger brother ordered army attacks on Buddhist pagodas. For 10 points each:

[10] Name this President of the Republic of Vietnam who defeated Emperor Bao Dai in a 1955 plebiscite.

ANSWER: Ngo Dinh **Diem**

[10] Diem's downfall was precipitated by the shooting of monks protesting this law, which prohibited the flying of religious flags. Dang Sy used invoked this law before tearing down numerous Buddhist's flags on Phat Dan in 1963.

ANSWER: **Decree Number 10**

[10] This monk's self-immolation, an act of protest against Diem, was captured by Malcolm Browne. In that picture, this man sits still in front of a car with its hood popped open as he burnt to death.

ANSWER: Thich **Quang Duc**

149-13-64-12212

13. An alloy of 36% nickel and 64% iron, Invar, has a very low value for this quantity. For 10 points each:  
[10] Identify this value that characterizes the change in length, area, or volume for a material when temperature changes.

ANSWER: **coefficient** of linear **thermal expansion** [or **CTE**; or **alpha**]

[10] This technique, the subject of ASTM E831 and associated with dilatometry, records the change in dimensions of a sample as a function of temperature and the slope of the curve generated by it is the CTE. For polymers, the curve generated when using this technique has a knee at the glass transition.

ANSWER: **thermomechanical** analysis [or **TMA**]

[10] If one were to graph the volume of this element versus temperature one would notice an astonishing five discontinuities between room temperature and this metal's melting point, corresponding to six solid-state phase transitions. The 238, 239, 240, and 242 isotopes of this actinide undergo alpha decay to uranium.

ANSWER: **plutonium**

066-13-64-12213

14. *Note to moderator: do not read the alternate answers to the first part.*

Similar descending flourishes in the opening of this work have led to it being compared to another one in the same genre and key by Robert Schumann. For 10 points each:

[10] Name this work that opens with a timpani roll and whose opening motif is built on a falling second followed by a falling third.

ANSWER: **Piano Concerto in A minor**, Op. 16 [or **Grieg's Piano Concert** in A minor, Op. 16; or **Grieg's Piano Concerto in A minor, Op. 16**]

[10] The Piano Concerto in A minor is the only work of its kind by this composer.

ANSWER: Edvard **Grieg**

[10] This Grieg song cycle tells the tale of the title shepherd girl who crosses a field of blueberries before falling in love as part of "The Tryst". It is a setting of poet Arne Evensen Garborg's masterpiece.

ANSWER: **Haugtussa, Op. 67** [accept either; or *The Mountain Maid*]

002-13-64-12214

15. This group was founded by Nanak's son Srichand and acquired tracts of land under Ranjit Singh. For 10 points each:

[10] Name this monastic Hindu group which broke off from Sikhism and is centered at Haridwar.

ANSWER: **Udasi**

[10] Udasi wear their hair in dreadlocks, which is similar to this Sikh principle of not cutting the hair.

ANSWER: **kesh**

[10] In the late nineteenth century, a "reform movement" named for these structures, which are Sikh temples, kicked the Udasi out of the positions of authority they had come to hold over these places.

ANSWER: **gurdwaras**

019-13-64-12215

16. This character still doesn't know what eclectic means, claimed there were "bubbles in his eyes" after drinking 16 liters of cherry soda, and greeted Rupert Murdoch with an enthusiastic "hakuna matata!". For 10 points each:

[10] Name this "Fox and Friends" co-host played by Bobby Moynihan. He insisted that if Tupac was a hologram, the bullet would have passed right through him.

ANSWER: Brian **Kilmeade**

[10] At the end of every "Fox and Friends" sketch, a list of corrections scrolls across the screen. One set of corrections claimed that these characters are "not elected," "not appointed," and that these characters are, in fact, cartoons.

ANSWER: **smurfs**

[10] The real Brian Kilmeade briefly gained notoriety after he hit a small child in the face on live TV with one of these objects. That child was the star of a video on the internet where he showed uncanny skill using one of them.

ANSWER: a toy **basketball**

002-13-64-12216

17. The gametes of organisms in this phylum have flagella. For 10 points each:

[10] Identify this oldest fungal phylum that includes includes the organism *B. dendrobatidis*, which is currently causing a massive die-off of amphibians.

ANSWER: **chytrids** [or *Chytridiomycota*]

[10] *B. dendrobatidis* infects areas of skin that have a large amount of this protein. Tadpoles only feature this protein around their mouth area and it is found in nails and skin, among other areas, in humans.

ANSWER: **keratin**

[10] The fungal phylum *Glomeromycota* is known for forming the arbuscular type of this structure.

ANSWER: **mycorrhizae**

066-13-64-12217

18. The narrator of this story puzzles over why a man and his entourage of a wife and two sisters would require three state-rooms instead of just two. For 10 points each:

[10] Name this story in which the artist Cornelius Wyatt ties himself to the title object and tosses himself overboard during a storm on Cape Hatteras.

ANSWER: "The **Oblong Box**"

[10] "The Oblong Box" is a horror story by this author, who also wrote thrillers like "The Pit and the Pendulum" and "The Tell-Tale Heart."

ANSWER: Edgar Allan **Poe**

[10] In this other nautical tale by Poe, an old man leads an expedition to a summit in Lofoden and recounts how he, unlike his two brothers, emerged unscathed from a terrifying vortex off the Norwegian coast.

ANSWER: "A **Descent into the Maelström**"

020-13-64-12218

19. A dark-skinned and well-dressed man watches a woman breastfeed in the foreground as the title storm rages on in this artist's *The Tempest*. For 10 points each:

[10] Name this Venetian painter that also painted *Laura* and a nude *Sleeping Venus*.

ANSWER: **Giorgione** Barbarelli de Castelfranco

[10] The portraits of Giorgione are apparently hard to differentiate from those of this artist who depicted Eros watching as a shower of gold falls on the title woman in his *Danae*.

ANSWER: **Titian** [or Tiziano **Vecellio**, prompt on "da Cadore"]

[10] The paintings of Giorgione found in the National Gallery of Art are typically referred to with this name, derived from a namesake *Adoration of the Shepherds* that is usually considered separate from his other paintings.

ANSWER: **Allendale** Group

002-13-64-12219

20. This organization was heavily supported by Henry Clay. For 10 points each:

[10] Name this organization for which Charles Mercer secured federal aid. It helped out Abdul Rahahman.

ANSWER: **American Colonization Society**

[10] The American Colonization Society sent freed slaves to live in this modern day nation, whose capital is named after James Monroe.

ANSWER: **Liberia**

[10] The work of this captain of the *Traveller* helped inspire the American Colonization Society. This Quaker of Ashanti and Wampanoag descent helped establish Sierra Leone.

ANSWER: Paul **Cuffe**

149-13-64-12220

21. Eero Saarinen famously pulled the design for this building out of a pile of rejected submissions, and essentially forced the other judges to use it. For 10 points each:

[10] Name this building that sits on Bennelong Point and looks like it is covered in sails. At its 1973 opening, the architect was neither invited nor mentioned.

ANSWER: **Sydney Opera House**

[10] The winning design for the Sydney Opera House was submitted by this architect that practiced "additive architecture" and designed the National Assembly Building in Kuwait.

ANSWER: Jørn **Utzon**

[10] In 1982, Jørn Utzon received an award from the Finnish Association of Architects named for this designer of the Essen Opera House and the Finlandia Hall.

ANSWER: Alvar **Aalto**

002-13-64-12221