



1. One short story by this author ends as a woman reading the newspaper muses "Just goes to show, God knows what He's about," after seeing a picture of a forty-five-centimeter tall pregnant member of the Likoualás tribe discovered by Marcel Pretre. A novel by this author begins with the protagonist waking up in the "How a Man is Made" section and depicts a man abandoning language to live as stones do in "The Birth of the Hero." In a novel by this author, an idle rich sculptor compares her past abortion to squashing a cockroach in the abandoned room of her maid Janair. This author of "The Smallest Woman in the World" and *The Passion According to G.H.* wrote about the journey of a man who may have killed his wife, Martim, in *The Apple in the Dark*. For 10 points, name this author who wrote about Rodrigo's attempt to chronicle the life and death of Macabéa in *The Hour of the Star* and who was a Ukrainian-Brazilian Jewish woman.

ANSWER: Clarice Lispector

019-13-64-09101

2. A 2011 protest in this country attempted to seize control of a television station in Batumi, and that protest movement also attempted to cancel this country's celebration of its independence day. In 2013, over 1,000 priests attacked a 50 person gay-rights demonstration in this country. Allegations that a November 2003 election was fraudulent led to the removal of Eduard Shevardnadze as leader of this country, and a resulting mutiny in Adjara resulted in Mikhail Saakashvili's aggressive policies towards disputed territories. This nation fought against Russia in the August War over the breakaway territories of Abkhazia and South Ossetia. For 10 points, name this Caucasian country where during the Rose Revolution, protesters marched in the capital, Tbilisi.

ANSWER: Georgia

002-13-64-09102

3. One of the two equations central to this non-GR theory uses the Hodge-star operation twice; the other equation, which states that the exterior covariant derivative of the curvature is equal to zero, is equivalent to the Bianchi identity. When quantizing this theory based on the path integral, anti-commuting complex scalar ghost fields are required; that quantization was first done by Faddeev and Popov. In his Ph.D. thesis, Gerard 't Hooft showed that this theory was renormalizable. This theory was constructed by making the global isotopic spin invariance into a local gauge invariance. Another theory built on this theory predicts that every excitation of the vacuum has an energy greater than zero, which is the problem of the mass gap. This theory is the most prominent example of a non-Abelian gauge theory. For 10 points, identify this doobly-eponymous theory that is an important ingredient in describing the strong force and unifying electromagnetism and the weak force.

ANSWER: Yang-Mills field theory [or non-Abelian gauge theory until it is read; prompt on: QCD, quantum chromodynamics, electroweak theory, SU(2) cross U(1), and SU(3), where SU(n) stands for special unitary group of degree n and U(n) stands for unitary group of degree n]

066-13-64-09103

4. This place titles the most prominent surviving madrigal comedy, written by Orazio Vecchi. It also titles the last published work of J.C.F. Fischer, which was a set of nine keyboard suites. A grand trio sonata by François Couperin is subtitled "l'apothéose de Corelli" and named for this place. A non-musical work titled for this place has a notable English translation by Alfred Mann, splits its subject into five species, such as note against note and "florid", and frames itself as a dialog between Josephus and Aloysius. This place lends its name to a series of one hundred keyboard exercises by Muzio Clementi, which was parodying by the first piece of Debussy's *Children's Corner*, which is also named for it. That non-musical work is a treatise on counterpoint in the style of Palestrina. For 10 points, identify this place that titles a treatise by Johann Joseph Fux.

ANSWER: Mount **Parnassus** [or **Parnassos**; or **Parnassum**; or *Gradus ad Parnassum*; or *L'Amfiparnaso*; or *Twin Peaks of Parnassus*; or *Musicalischer Parnassus*; or *Le Parnasse, ou l'apothéose de Corelli*; or *Doctor Gradus ad Parnassum*]

066-13-64-09104

5. A "faskh" decree can be given to implement this procedure against the will of a person involved. Many regulations on this procedure are found in a book of 87 relevant hadiths collected by Sahih Bukhari. A mandated length of time immediately following this procedure is marked by three menstrual cycles and is known as "iddah." The "khula" form of this procedure usually involves returning the "mahr," which has often proved unenforceable in American courts. The more common form of this procedure involves saying the "talaq" up to three times. For 10 points, identify this practice in Islam which allows a woman to subsequently remarry.

ANSWER: **divorce** in Islam

019-13-64-09105

6. A failed assassination attempt against this man involved Samuel Church exploding a twelve pound artillery shell under this man's cot. While stationed at Fort Moultrie, this man, as "A Subaltern", criticized the policies of Winfield Scott in his "Notes on Our Army". Apocryphally, the command for "a little more of the grape" led this man to fill a hole in the line at Buena Vista with his artillery. This man won a tactical victory near Chaplin Hills against Don Carlos Buell at the Battle of Perryville. That battle ended the invasion of Kentucky led by this man and Edmund Smith, the Heartland campaign. He defeated William Rosecrans at the Battle of Chickamauga. For 10 points, name this Confederate general who lost to Grant at the Battle of Chattanooga.

ANSWER: Braxton **Bragg**

149-13-64-09106

7. One play in this genre included a device for lifting an actress off the stage known as "the pomegranate" and is named for its performance at Elx. Several plays of this kind are preserved in the Hegge Manuscript. Many plays in this genre were performed as a procession on "pageant wagons," though an array of "mansions" was instead used in the 42-part N-Town plays. The Chester, York, and Wakefield cycles are part of this genre, as are the Corpus Christi cycles. Following Innocent III's ban on clergy serving as actors, these plays were organized by appropriate guilds, such as bakers depicting the last supper and shipwrights who performed in Noah building the ark. For 10 points, identify this medieval dramatic genre which showed Biblical narratives, as opposed to stories of saints in miracle plays or allegorical instruction in morality plays.

ANSWER: **mystery** plays [or **mystery** cycles; or **Corpus Christi** cycles until it is read; do not accept "miracle plays" or "morality plays"]

019-13-64-09107

8. The two proteins that mediate this process in *S. cerevisiae* are Dmc1 and Rad51. The site of occurrence of this process is regulated by the zinc finger protein PRDM9. In bacteria, this process often occurs at chi sites. This process occurs when Xer is activated by FtsK and acts at *dif* sites, converting dimers to monomers. One form of this process, which was first discovered with the P1 bacteriophage by Sternberg and Hamilton, uses loxP sites and the Cre enzyme. Strains of bacteria that have the fertility factor integrated into their chromosome exhibit a high frequency of this process. A cross-shaped structure that can be formed during this process is the Holliday junction. The process of synapsis, in which two homologous chromosomes are paired, leads to this process in meiosis. For 10 points, identify this process in which DNA is broken and rejoined to produce new genes.

ANSWER: genetic **recombination** [or DNA **recombination**; homologous **recombination**; or conservative site-specific **recombination**; or meiotic **recombination**; or specialized **recombination**; or chromosomal **crossover**; prompt on **DNA rearrangement**; prompt on **DNA repair**]

066-13-64-09108

9. Prior to this battle, one side's commander threatened to kill anyone who mentioned Antonio Quintanilla's rejected plan to retreat to Colina. Ildefonso Elorreaga was killed at this battle, which was where Vincente San Bruno was captured. One side was cut off from retreating at this battle by the forces of Miguel Soler. The Talavera regiment, under Rafael Maroto, was ordered to fight in this battle by Marco Del Pont. Following this battle, the winning commander lost at Cancha-Rayada, before winning at Maipu. This battle, which shares its name with an abandoned saltpeter town, was fought by a force that had crossed the Andes to come to the aid of Bernardo O'Higgins; that force was led by Jose San Martin. For 10 points, name this battle that ultimately led to Chile's independence.

ANSWER: Battle of **Chacabuco**

149-13-64-09109

10. In the movie *Olympus Has Fallen*, President Ben Asher is taken hostage by a terrorist from this country. This country is the last to self-destruct their deployed arsenal in GI Joe: Retaliation. In the remake *Red Dawn*, soldiers from this country seize control of the Pacific Northwest. One leader of this country claims that a celebrity "failed in every way" in his song "You are Worthless Alec Baldwin," before being revealed to be an alien cockroach in *Team America: World Police*. On 30 Rock, that leader kidnapped Avery Jessup and gave the weather report "everything sunny all the time always." For 10 points, name this country once led by the now supposedly dead Kim Jong-Il.

ANSWER: **North Korea** [or **Democratic People's Republic of Korea**; or **Whatever That Is In Korean**]

002-13-64-09110

11. One member of this literary circle wrote of a "pure instant of life" formed when "through summer air, the ascending gull, dominates the expanse, the sea, the world" in his poem "Flight." Another member of this group used recycled military uniforms and flags to publish an edition of a Pablo Neruda book and founded the journal *1616*. This group included the authors of the poetry volumes *The Invited Islands* and *Cántico*. Another member of this group wrote about "a sad breeze through the olive trees" in a poem that lists "a thigh with a desolated horn," "groups of silence in the corners" and a boy who "brought the white sheet" as things that were present at "exactly five in the afternoon." This group was named after gathering at the Ateneo de Sevilla to celebrate the three hundredth anniversary of Luis de Góngora's death. For 10 points, name this poetic circle including Jorge Guillén, Manuel Altolaguirre, Vicente Aleixandre, and Federico García Lorca.

ANSWER: the **Generation of 27** [or **Generación del 27**]

019-13-64-09111

12. This man and his troops were detained on the orders of Allah ibn Ziyad, the newly appointed governor of Kufa. That action led to al-Hurr aiding this man. Despite having his arms cut off in the process, this man's brother refused to face this man's daughter Bibi Sakinah because he failed to bring his brother water. According to some, this man was resting against a tree when his head was cut off by Shimr. This man's tomb is visited by pilgrims on Arbäeen, which is also known as Chelom. Tatbir is one act sometimes performed along with the beating of drums on the 10 Muharram or the Day of Ashura to mourn this man's death. This man's forces were killed by those of Yazid I of the Umayyad Caliphate. For 10 points, what son of Ali was killed at the Battle of Karbala?

ANSWER: **Husayn** ibn Ali

149-13-64-09112

13. This operation is an automorphism of the Schwartz space and, by duality, the space of tempered distributions. This operation restricted to the dense subspace formed by the intersection of the  $L^1$  and  $L^2$  spaces is a linear isometry into  $L^2$  according to the Plancherel theorem, which can be used to prove its uniqueness. The integral over the reals of the squared modulus of a function  $f$  is equal to the integral over the reals of the squared modulus of this operation applied to  $f$ , which is equivalent to the fact that this operation is unitary, according to Parseval's relation. This transform is integrated over the reals and is defined using a complex exponential. For 10 points, identify this operation that transforms a time-domain function to one in the frequency-domain, and which shares many properties with the Laplace transform.

ANSWER: **Fourier** transform

066-13-64-09113

14. This artist created "Moose the Mooche" for one recording session with Dial Records. In one piece, this artist launches into a solo after Max Roach thumps the bass drum, during which he quotes the clarinet solo from "High Society"; that piece is "Ko Ko". This artist utilized the chromatic scale to vastly expand his range of possible solos during a performance of "Cherokee". Like Igor Stravinsky, this person was fascinated with combining jazz and classical music, and thus recorded "Everything Happens to Me" and "If I should lose you" as part of a collaboration with a full strings section. Miles Davis once claimed that the history of jazz could be summed up entirely in the names of Louis Armstrong and this man. For 10 points, name this innovator of bebop, a jazz saxophonist who recorded the album "Ornithology" and whose nickname inspired the titles of "Bird Gets the Worm" and the "Yardbird Suite".

ANSWER: Charlie **Parker** [or Yard**bird** until it is read]

002-13-64-09114

15. An old man in charge of Neleus' mares was changed into a rock after he broke his oath and betrayed Mercury's commission of this action to a disguised Mercury himself. An Italian story holds that an indignant Hercules strangled a man-eating monster so tightly that his eyes popped out after that monster's attempt to cover up this action failed. In the proem of the *Odyssey*, Homer assigns the blame for the death of Odysseus' men to their commission of this action on the island of Helios. The killing of Cacus indirectly resulted from Hercules' own commission of this action at the behest of Eurystheus, to accomplish which he had to kill the shepherd Eurytion and the two-headed dog Orthrus. As an apology for committing this action, a young Hermes used a tortoiseshell to create the lyre. For 10 points, name this action which consists of wrongfully obtaining the sort of animal into which Io was transformed.

ANSWER: **stealing cattle** [accept **cows**, **bulls**, or other reasonable equivalents for "cattle"; accept equivalents of "stealing"; prompt on equivalents of "stealing" that don't include the animal]

105-13-64-09115

16. This book claims that "the world" cannot decide whether Newtonian physics is superior to Aristotelian, and that Foucault and Habermas represent opposite and incomplete halves of a necessary personality type. The introduction to this book defines liberals as those who enjoy "whatever the outcome of an undistorted society might be," then notes that there is a certain class of liberals who cannot answer the question "Why not be cruel?" The final chapter of this work addresses its last title concept as the ability to include more people in "we" statements after addressing Nabokov and Orwell's shortcomings. It begins by stating that all language's truth or falsehood depends on human evaluation. For 10 points, name this book offering a neo-pragmatist approach to constructing a better society, written by Richard Rorty.

ANSWER: Contingency, Irony, and Solidarity

019-13-64-09116

17. The seizure of areas where this substance was produced by Ercole I d'Este instigated a war between Venice, who was backed by Sixtus IV, and Ferrara. In England, towns with the suffix "wich" were typically associated with the production of this substance. This substance was transported by the Sabines along the Via Salaria. Webb Miller reported on a protest led by Abbas Tyabji and Kasturbai against a policy involving this commodity. This substance was taxed in France by the *gabelle*. It is not cod, but Mark Kurlansky wrote *A World History* of this substance. In addition to copper and gold, this substance was used a currency by the Mali Empire. For 10 points, a march to Dandi by Mahatma Gandhi was organized to protest a monopoly on what commodity?

ANSWER: table salt [or Rock Salt]

149-13-64-09117

18. This artist's father promised him fifty dollars a week for the rest of his life if he agreed to get a Ph.D. from Harvard before engaging in art as a profession. This man claimed that his movement was marked by creating art "filled with anger as well as beauty." A blue triangle is partially covered by a yellow oval as the title French phrase is written in purple in one version of this artist's *Je t'aime*. This man formed the "golden couple" with third wife Helen Frankenthaler, and described his most famous series of works as being "a funeral for something one cared about," and that series features the canvas divided by black bars with black ovals between them. For 10 points, name this abstract expressionist painter of the *Elegy to the Spanish Republic* series.

ANSWER: Robert Motherwell

002-13-64-09118

19. Frederick Bordwell is the author of a review article that characterized the pKa of over 300 chemicals in this compound. Kornblum treated primary alkyl halides with this compound and a hydrogen acceptor to create aldehydes. Glycols, such as glycerol, and this compound are the most widely used cryoprotectants in cryopreservation of cell cultures. This compound is used to help loosen secondary structures and amplify GC-rich regions in PCR. In one reaction, this compound is used in combination with a sulfur trioxide-pyridine complex and triethylamine. This compound can be activated by the use of electrophilic reagents like DCC or oxalyl chloride; the latter compound is used with this compound in the Swern oxidation. Often used to oxidize primary and secondary alcohols into aldehydes and ketones, this polar, aprotic solvent has a highly polarized sulfur-oxygen bond. For 10 points, identify this compound particularly known for its rapid penetration of the skin and garlic-breath-conferring ability.

ANSWER: DMSO [or dimethyl sulfoxide]

066-13-64-09119

20. One poem in this collection mentions the uselessness of "your sword & gun, your lance of steel / your cannon... and your powder too" without "mine aid." Another poem compares the speaker's life to a "spider's web cut off," and was written about the author's "fit of fainting." A description of how "The Fire, Air, Earth, and Water did contest / Which was the strongest, noblest, and the best" opens its "Four Elements;" this collection also includes "four humours" and "four monarchies." The lines "the world no longer let me love; My hope and Treasure lies above" end another poem, whose speaker was "waken'd with thund'ring noise" to the "fearful sound of 'fire' and 'fire.'" Later, this collection was emended with a poem addressing the "ill-formed offspring of my feeble brain." For 10 points, name this collection that includes "Verses Upon the Burning of Our House," a major work by Anne Bradstreet.

ANSWER: The *Tenth Muse, lately Sprung up in America*, or Several Poems Compiled with Great Variety of Wit and Learning, Full of Delight, Wherein especially is Contained a Complete Discourse and Description of the Four Elements, Constitutions, Ages of Man, Seasons of the Year, together with an exact Epitome of the Four Monarchies, viz., The Assyrian, Persian, Grecian, Roman, Also a Dialogue between Old England and New, concerning the late troubles. With divers other pleasand and serious Poems, By a Gentlewoman in those parts

020-13-64-09120

21. A woman from this country, with the last name Cornet, supposedly hid Hanna Nadel. The death of Oswald Englebin in this country led to the Courcelles Massacre. While fighting on the Eastern front, a person from this country was wounded at Cherkassy, an event described in his book *Campaign in Russia*. The newspaper *Le Pays Reel* was the chief mouthpiece of Jean Denis, who was the chief idealogue for a movement in this country. This country's king surrendered it during World War II against the wishes of Pierlot, its prime minister. Nazi collaborators in this country included Victor Matthys and Jose Streeel. Those two belonged to a fascist group led by Leon Degrelle named Rexism in this country. For 10 points, name this country that King Leopold III surrendered to the Nazis during World War II.

ANSWER: Kingdom of Belgium

149-13-64-09121

22. WRITE MORE QUESTIONS, Particularly a - Tossup

00--20-09122



1. Institutions in this country include the Hotel Liberty in the capital, Jacksonburg, where foreign visitors tend to stay, and the Pension Dressler, where Katchen learns that this country's president has been locked inside his palace. For 10 points each:

[10] Name this fictional country, with two competing embassies in London, and where Mr. Baldwin's mineral interests eclipse both Soviet and German maneuvering.

ANSWER: Ishmaelia

[10] Ishmaelia appears in this novel, in which *The Daily Beast* mistakenly sends John Boot, the dilettante author of the nature column "Lush Places," on a foreign correspondent's assignment.

ANSWER: Scoop

[10] *Scoop* debuted two years after this less fictionalized memoir based on the same events, in which the author recounted his own assignment by the *Daily Mail* to report on Mussolini's invasion.

ANSWER: Waugh in Abyssinia

019-13-64-09201

2. John Cope was defeated by George Murray and Charles Edward Stuart at this battle, which began at dawn. For 10 points each:

[10] Name this first significant engagement of a conflict that ended at the Battle of Culloden.

ANSWER: Battle of Prestonpans [or Battle of Gladsmuir]

[10] The Battle of Prestonpans was part of this Scottish attempt on the English throne. William Augustus, Duke of Cumberland put down this rebellion for George II.

ANSWER: Jacobite rising of 1745 [or the Forty-five]

[10] This man wrote the folk songs "Hey, Johnnie Cope, are Ye Waking Yet?" and "Tranent Muir" about the Battle of Prestonpans.

ANSWER: Adam Skirving

149-13-64-09202

3. This dynamic test is used to measure notch toughness. For 10 points each:

[10] Identify this test that consists of striking a standard notched specimen with a pendulum.

ANSWER: Charpy V-notch impact test [or Izod test; prompt on drop weight test]

[10] By conducting the Charpy test at different temperatures, one can determine the transition temperature between these two properties for a metal, aka crystalline solid, which corresponds to the glass-transition temperature for an amorphous solid.

ANSWER: ductile and brittle [accept in any order]

[10] This formula can be used to determine the energy of the pendulum used in the Charpy test, or indeed any pendulum, at its highest point.

ANSWER: m g h [or mass times acceleration due to gravity times height; prompt on potential energy formula]

066-13-64-09203

4. Glenn Frankel wrote a recent, wonderful book on this film, and both its opening and closing shots frame John Wayne in the door of a cabin as he arrives and leaves, respectively. For 10 points each:

[10] Identify this John Ford film that follows the Comanche-hating Ethan Edwards.

ANSWER: *The Searchers*

[10] *The Searchers*, like many of John Ford's other westerns, was a huge influence on this Akira Kurosawa film, which was remade by Sergio Leone in *A Fistful of Dollars*.

ANSWER: *Yojimbo*

[10] The introduction of Sherif Ali at one of these structures, owned by the Harith tribe, in *Lawrence of Arabia* strongly recalls the opening shot of *The Searchers*. At the scene set here, Sherif Ali kills Lawrence's Bedouin guide.

ANSWER: a well

066-13-64-09204

5. Before founding Stoicism, Zeno of Citium was a disciple of a leading member of this philosophical school, Crates of Thebes. For 10 points each:

[10] Identify this philosophy also advocated by the lantern-wielding Diogenes of Sinope.

ANSWER: Cynicism

[10] This wife of Crates shocked Athens by dressing as a man and living as an equal with her husband. The pair engaged in sexual intercourse on the city streets in order to promote Cynicism.

ANSWER: Hipparchia of Maroneia

[10] An encounter at a symposium in which Hipparchia defended her right to be a philosopher to Theodorus the Atheist is recounted in the *Historical and Critical Dictionary* of this eighteenth-century French philosopher.

ANSWER: Pierre Bayle

019-13-64-09205

6. This event is often commemorated in paintings showing a small child climbing a long flight of stairs, and it was the start of a nine-year residence in the Temple. For 10 points each:

[10] Identify this event from Biblical apocrypha, celebrated by feast days in both Catholicism and Orthodoxy, in which Joachim's daughter is dedicated to God in thanks for her birth.

ANSWER: the Presentation of Mary to the Temple

[10] This mother of Mary is said in Islamic legend to have decided to conceive in old age after seeing a bird feeding its young.

ANSWER: St. Anne [or Hanna]

[10] This book, which contains the Lament of Anna and places the birth of Jesus in a cave, is the source for the Presentation of Mary. It is also the source for the belief that Joseph had a previous marriage and children before meeting Mary.

ANSWER: Infancy Narrative of James [or Gospel of James; or Protoevangelium of James; do not accept or prompt on "Book of James," "Epistle of James," or "James"]

019-13-64-09206



7. The closest approximate to the word "stubborn" in the language of this person is "That cat will never come off his groove, dad," a problematic rendition because "groove implies movement." For 10 points each:

[10] Name this kind of person, who, according to a controversial 1957 essay, is a product of the existential crisis generated by the World Wars. They enjoy jazz and appropriate various aspects of bourgeois African-American culture.

ANSWER: **white negroes** [or **hipsters**; accept "The **White Negro**: Superficial Reflections on the Hipster"]

[10] This author of essays like "The White Negro" and "Superman Comes to the Supermarket" wrote about the fighting at Anopopei during World War II in his novel *The Naked and the Dead*.

ANSWER: Norman Kingsley **Mailer**

[10] Mailer appeared to repudiate some aspects of "The White Negro" in this book, a nonfictional novel chronicling his participation in the 1967 March on the Pentagon.

ANSWER: *The **Armies of the Night**: History as a Novel/The Novel as History*

020-13-64-09207

8. This process is mediated by the proteins RAG1 and RAG2. For 10 points each:

[10] Identify this process that takes place between gene segments with dissimilar RSSs, which gives rise to the 12/23 rule.

ANSWER: **V(D)J recombination** [prompt on genetic **recombination**; prompt on **B cell differentiation**; prompt on **immunoglobulin differentiation**; prompt on **antibody differentiation**; prompt on **T cell receptor differentiation**]

[10] V(D)J recombination is undergone by the constituents of immunoglobulins, or antibodies, which recognize and bind to these substances that elicit an immune response.

ANSWER: **antigen**

[10] V(D)J recombination is also undergone by the genes that encode T cell receptors, which activate T cells after recognizing peptides bound to molecules of this complex. In humans, it is known as the human leukocyte antigen system.

ANSWER: **MHC** class I [or **major histocompatibility** complex class I]

066-13-64-09208

9. The Old French passages of these pledges are believed to be the oldest known texts written in French. For 10 points each:

[10] Name this pact that was made between the rulers of East and West Francia one year after their victory at the Battle of Fontenoy.

ANSWER: **Oaths of Strasbourg**

[10] The Oaths of Strasbourg were made by these two sons of Louis the Pious, who agreed to fight against Lothair I. One was the son of Ermedgarde of Hesbaye and the other of Judith of Bavaria. Name either.

ANSWER: **Charles the Bald** or **Louis the German** [or **Charles II** in place of "Charles the Bald"; or **Ludwig the German** or **Louis II** in place of "Louis the German"]

[10] In 870, Charles the Bald and Louis the German portioned the land of Lothair II in this treaty. Charles the Bald received parts of Lower and Upper Burgundy in this treaty, which later helped him become King of Italy.

ANSWER: Treaty of **Meerssen**

149-13-64-09209

10. Scholars surmise that this object is shown at the bottom of the Tullstorp Runestone. For 10 points each:  
[10] Name this object captained by Hrym, which will arrive at Vigrid bearing legions of giants during Ragnarok. High admonishes readers to trim the nails of the dead, since this ship is made entirely from keratin.

ANSWER: **Naglfari**

[10] The *Voluspa* claims that Naglfar is helmed by this god, who was punished for his crimes by having a snake drip venom on his face.

ANSWER: **Loki** [or **Loptr**; or **Hvedrungr**]

[10] Naglfari is also the name of the first husband of the thrice-married maternal grandmother of Thor, who rode the steed Hrimfaxi and personified this natural phenomenon.

ANSWER: **night** [the goddess's name is Nott]

020-13-64-09210

11. This play was intended to join the author's *Inferno* in the Dante-inspired "World Theatre Project." For 10 points each:

[10] Name this 1965 play, based on Bernd Naumann's reports on the Frankfurt trials of Auschwitz war criminals, which describes German "second guilt" by methodically recounting an inmate's path to death in the Holocaust.

ANSWER: *The **Investigation*** [or *Die **Ermittlung***]

[10] This author of *The Aesthetics of Resistance* and *How Mister Mockingpott Was Cured of His Suffering* wrote *The Investigation*.

ANSWER: Peter **Weiss**

[10] In this most noted play by Peter Weiss, one title character announces "I am the revolution" before being stabbed by Charlotte Corday, in the play within the play directed by the other title character, who himself wrote *The 120 Days of Sodom*.

ANSWER: **Marat/Sade** [or *The **Persecution and Assassination of Jean-Paul Marat as Performed by the Inmates of the Asylum of Charenton Under the Direction of the Marquis de Sade***; or *Die **Verfolgung und Ermordung Jean-Paul Marats, dargestellt durch die Schauspielgruppe des Hospizes zu Charenton unter der Anleitung des Herrn de Sade***]

019-13-64-09211

12. During one of these wars Sir Eyre Coote repeatedly beat the forces of Hyder Ali. For 10 points each:

[10] Name these wars, one of which was ended by the Treaty of Mangalore. During the fourth of these wars, the forces of Tipu Sultan used rockets with propellant held in iron tubes.

ANSWER: Anglo-**Mysore** Wars

[10] The British also fought a series of wars in India against this empire. Founded by Shivaji Bhosle around Raigad, this empire lost the Third Battle of Panipat to Ahmad Shah Abdali.

ANSWER: **Maratha** Empire

[10] This joint-venture company fought against the Maratha Empire and the Kingdom of Mysore. This group lost control of India after the Sepoy Mutiny.

ANSWER: **British East India** Co.

149-13-64-09212

13. Substances placed in these devices are subjected to high-pressure steam, allowing one to react them under high pressure and temperature. For 10 points each:

[10] Identify these devices normally used to sterilize equipment.

ANSWER: **autoclaves**

[10] Autoclaves are used to create the autoclaved aerated types of this material. Cement is used as a primary binder in this material to join its aggregates.

ANSWER: **concrete**

[10] This compound, with formula  $\text{Fe}(\text{CO})_5$ , is easily prepared by heating iron powder with carbon monoxide in an autoclave.

ANSWER: **iron pentacarbonyl**

066-13-64-09213

14. Johann Friedrich Reichardt recounted that one composer for this instrument once engaged in a competition for improvising fantasias and fugues with J. S. Bach. For 10 points each:

[10] Identify this solo instrument for which *Tombeau sur la mort de M. Comte de Logy* was composed, as well as the ayre "Flow My Tears" and various other lugubrious music of John Dowland.

ANSWER: **lute**

[10] This Baroque German composer of *Tombeau sur la mort de M. Comte de Logy* was the last great master of the lute. He also challenged Bach to the aforementioned competition.

ANSWER: Sylvius Leopold **Weiss**

[10] The opening line of "Flow My Tears" was quoted by this composer in his *Lachrymae*. He also composed *War Requiem* and *The Young Person's Guide to the Orchestra*.

ANSWER: Benjamin **Britten**

066-13-64-09214

15. This region was the home of William Wordsworth and names a group of poets that includes him, Coleridge, and Southey, among others. For 10 points each:

[10] Identify this scenic region found in Cumbria that is the setting of *Swallows and Amazons*.

ANSWER: **Lake** District [or The **Lakes**; or **Lakeland**]

[10] The scenic Lake District includes this largest English lake. Adjacent to the town of Bowness, this lake is drained by the River Leven, which empties into Morecambe Bay.

ANSWER: **Windermere**

[10] The Lake District also contains this highest mountain in England, located in the borough of Copeland.

ANSWER: **Scafell Pike**

066-13-64-09215

16. In one episode, four villains on this show teamed up to form the Beat-Alls, and that group is broken up with the help of the "performance crime"-committing Moko Jono. For 10 points each:

[10] Name this Cartoon Network show created by Craig McCracken, in which Blossom, Bubbles, and Buttercup save Townsville from villains.

ANSWER: *The* **Powerpuff Girls**

[10] This woman is the girls's kindergarten teacher at Pokey Oaks. She briefly dated Professor Utonium, but broke up with him because she refused to believe he was being controlled by an evil cat.

ANSWER: Miss **Keane**

[10] This former classmate of the girls decided that if she could not be a Powerpuff Girl, there would be NO POWERPUFF GIRLS. This extremely wealthy brat was a member of the Beat-Alls and tried to join the Rowdyruff Boys because of her crush on Brick.

ANSWER: **Princess** Morbucks

002-13-64-09216

17. In one book, this man appears at a feast wearing a blue robe as gifts are given out to celebrate the new year. For 10 points each:

[10] Name this duke that commissioned the Limbourg Brothers to illustrate one of his namesake books of hours.

ANSWER: **Jean de Berry** [or **John of Berry** or **John the Magnificent**]

[10] Among the scenes depicted in the *Petite Heures de Jean de Berry* is this extra-biblical scene in which the souls of the righteous dead are freed from the underworld.

ANSWER: **Harrowing of Hell**

[10] Another artist that depicted the Harrowing of Hell was this medieval Russian painter of an icon of *Christ the Redeemer*.

ANSWER: Andrei **Rublev**

002-13-64-09217

18. This character's offer of \$1700 in gold and a watch during a trial testimony is shot down hard. For 10 points each:

[10] Give the sobriquet used by this unnamed title character of a story that appeared in *The Overland Monthly* in 1869. This Sandy Bar resident ultimately fails to prevent the unjust hanging of his companion.

ANSWER: **Tennessee's Partner** [obviously do not prompt on or accept "Tennessee" by itself, this exact two word answer must be given]

[10] "Tennessee's Partner" was written by this Californian author of "The Outcasts of Poker Flat" and "The Luck of Roaring Camp."

ANSWER: Francis Bret **Harte**

[10] This book states that Bret Harte and Walt Whitman were the only two authors who used the power of sex, not the sentiment of it, in their writings. In another section, the narrator takes a trip to the 1893 World's Fair, which he sees as a showcase of the power wielded by gold capitalists.

ANSWER: *The* **Education of Henry Adams**

020-13-64-09218

19. Two forms of this process are stop-and-copy and mark-and-sweep. For 10 points each:

[10] Identify this process of automatic memory management which tries to recycle memory occupied by objects that are no longer referenced.

ANSWER: **garbage collection** [or **GC**]

[10] This modern technique of garbage collection partitions objects based on their time of allocation and implements different policies. It is based on the fact that most objects are discarded shortly after being used.

ANSWER: **generational** garbage collection

[10] Dijkstra introduced this conceptual tool for garbage collection; it uses black, gray and white to determine what nodes on a graph are reachable.

ANSWER: **tricolor** marking [or **tricolor** abstraction; or **tricolor** invariant]

066-13-64-09219

20. This man strongly criticized his opponent's decision to ignore the traditional two term limit for the presidency. For 10 points each:

[10] Name this Republican lawyer who ran against Roosevelt in 1940.

ANSWER: Wendell **Willkie**

[10] After losing to Roosevelt, Wendell Willkie wrote this book about his travels around the world on *The Gulliver*. Willkie made the trip at the behest of Roosevelt.

ANSWER: **One World**

[10] In *One World*, Willkie described meeting this person. According to Gardner Cowles, this person stated that she and Willkie could "rule the world."

ANSWER: Soong **May-ling** [or Madame **Chiang** Kai-shek]

149-13-64-09220

21. This theory was developed after an experiment involving epinephrine injections that were disguised as a fictitious eyesight-enhancing drug called "Suproxin." For 10 points each:

[10] Name this theory of the role of cognition and physiology in giving rise to emotions, which was later the subject of Dutton and Aron's "misattribution of arousal" bridge study.

ANSWER: **two-factor** theory

[10] With Jerome Singer, this psychologist formulated the two-factor theory. He worked with Donald Hood to show the role of emotion in the stock market, which he dubbed "bubba psychology."

ANSWER: Stanley **Schachter**

[10] Schachter was a co-author with Leon Festinger on this study of cognitive dissonance, which fictionalized false UFO prophet Dorothy Martin as "Marian Keech."

ANSWER: **When Prophecy Fails**

019-13-64-09221