



1. English-language revivals of this play in the 2000s drew much political attention when a character proclaimed "The instrument God places in my hand is terror." A blind cardinal asks the king in this play "When you whine for sympathy, is not the world your equal?" after revealing that the man killed, following his mail being opened by Raimond de Taxis, was actually a wandering monk. The Marchioness of Mondecar is sent away from court in this play after admitting to a garden rendezvous with the title character, though the king is himself having an affair with the Princess of Eboli. Tension in this play draws from the marriage of the king to Elizabeth of Valois, whom the title character formerly pursued. Following the death of the Marquis of Posa, the title infante is given to the Inquisition by the vindictive Philip II. For 10 points, identify this play by Friedrich Schiller.

ANSWER: Don Carlos, *Infant von Spanien*

019-13-64-01101

2. Supposedly, after this man purchased a newspaper from a future leader of his country, that man claimed "I can't waste any more time on you". One critic of a policy negotiated by this man's Minister of Finance, William Fielding, was his former Minister of the Interior, Clifford Sifton. He was accused of being "un vendu" by Henri Bourassa. This replacement of Charles Tupper created his nation's "tin pot" navy when he signed the Naval Service Bill. This longest continuous serving member of the Canadian Parliament is also the longest serving head of the Liberal Party. This man's policy of trade reciprocity with the United States led to his defeat by Robert Borden, fifteen years after he had solved the Manitoba Schools Question. For 10 points, name this first Francophone Prime Minister of Canada who served from 1896 to 1911.

ANSWER: Wilfrid Laurier

149-13-64-01102

3. The derivative of an eigenvalue of this thing with respect to a parameter is equal to the expectation value of the derivative of this thing with respect to that parameter according to a theorem named for Hellman and Feynman. The RAGE theorem allows one to relate dynamical properties of states to the spectral properties of this thing. The von Neumann equation contains a term for the commutator of this thing and the density operator, which describes the time-dependence of the latter. This operator is a sum of two terms, one of which is negative \hbar^2 over two m times the Laplacian. E times a wave function is set equal to this operator of that wave function in the time-independent Schrödinger equation. For 10 points, identify this operator that is equal to the sum of the kinetic and potential energy operators.

ANSWER: Hamiltonian operator [or energy operator until "kinetic and potential" is read]

066-13-64-01103

4. Jacques Rivette, in his criticism of Gillo Pontecorvo's *Kapò*, wrote that the man who used this technique "deserves nothing but contempt". This technique is used in the penultimate scene of Antonioni's *The Passenger*. In the 1970 essay "Towards a Non-Bourgeois Camera Style", Brian Henderson outlines a new style of later-period Godard that is characterized by this technique, which is famously used in *Weekend* in conjunction with the sound of honking car horns. Due to the involvement of Garrett Brown and his newly-invented Steadicam, it was used copiously in Kubrick's *The Shining*. It was pioneered by Leni Riefenstahl in *Olympia*, and perhaps its most famous use is in the opening of Welles's *Touch of Evil*, where it was accomplished using a crane. For 10 points, identify this term usually applied to a shot taken when the camera is being moved by wheels.

ANSWER: **tracking shot** [or **long take**; or **extended take**; or **travelling shot**; or **dolly shot**; or **trucking shot**; prompt on **crane shot**; do not accept "long shot"]

066-13-64-01104

5. In this modern-day country, aristocratic scions were devoted to the Buddha Miruk while learning Five Precepts for Laity at the "Way of Flower Youth" school. In the fifteenth century, seven schools of Buddhism in this country were outlawed, leaving only the "doctrinal" and "meditational" schools. In the twentieth century, its Association for the Study of Buddha-Dharma, or Won, attracted many popular adherents, though academics tended to stay in the Chogye school. This country's theologians offer a synthesis known as "interpenetrated Buddhism," and its recent leaders have converted many Buddhist temples into vacation resorts or museums as Christianity has become the plurality religion here. For 10 points, name this country whose independence leaders often painted Buddhism as a tool of Japanese colonization, and where the Unification Church was founded.

ANSWER: South **Korea** [accept North **Korea** only before "for 10 points"]

019-13-64-01105

6. Under this categorization scheme, one group is said to be "horizontally repetitive" while the other creates "vertical associations." Other conflicts embedded in this categorization scheme include that which "detribalizes" versus "tribalizes" and whether the item "extends" or "collapses" space, as well as that which "engenders fragmentation" and "engenders holistic patterns." This categorization scheme uses the term "high definition" to estimate the amount of data involved. One of these categories is static and "spoon-fed," while the other demands participation and filling in of gaps. Conversation, cartoons, and seminars are placed in one of these categories, and lectures, photographs, and films in the other. For 10 points, identify this two-pronged scheme from Chapter 2 of *Understanding Media* into which Marshall McLuhan places all forms of media based on their "temperature."

ANSWER: **hot** and **cool** media

019-13-64-01106

7. The poems in this collection were arranged chronologically by L.C. Martin, who named the earliest poem in this book as one which promises "To taste boil'd nettles, colworts, beets; and eat these and sour herbs as dainty meat." A later poem about produce in this collection begins "Cherrie-Ripe, Ripe, Ripe, I cry, Full and faire ones; come and buy." This collection contains a poem ordering the subject to "mark how each field turns a street, each street a park, made green and trimm'd with trees" and another in which "a wild civility" is found in "a careless shoe-string." Another poem from this book warns that "for having lost but once your prime, you may for ever tarry" after advising that "this same flower that smiles today, tomorrow will be dying." For 10 points, name this collection containing "Corinna's Going A-Maying," "Delight in Disorder," and "To the Virgins, To Make Much of Time," written by Robert Herrick.

ANSWER: **Hesperides**: Or, *The Works Both Humane and Divine of Robert Herrick, Esq.*

019-13-64-01107

8. In 2000, a C-type lectin with localized to cells named for this scientist was discovered; that lectin is cluster of differentiation 207. Lesions of those cells named for this scientist are symptomatic of histiocytosis X. Tennis-racket shaped structures seen in the cytoplasm of those cells are Birbeck granules, and those cells are immature dendritic cells of the epidermis and mucosa. Polypeptides secreted by cells in a structure named for this person include PP, ghrelin, amylin, and somatostatin. That structure is a cluster of endocrine cells, including delta, alpha and beta cells; the latter two secrete glucagon and insulin. For 10 points, identify this biologist who names some "islets" found in the pancreas.

ANSWER: Paul **Langerhans**

066-13-64-01108

9. This company sued Helen Steel and David Morris over a defamatory pamphlet. An employee working at one of this company's locations sued after being forced to receive payment through a company issued debit card. An employee of this company urged a group of patrons to "please stop, please stop" during a three hour "potato party". A sample budget distributed to workers by this company included a second job and no money to be spent on food. A report from the University of Kansas notably said that every employee of this company could have their wages and benefits doubled at a cost that would only raise the price of its most famous product by 68 cents. For 10 points, name this fast-food giant, where Cody Voight loves to go for chicken nuggets instead of a Big Mac.

ANSWER: **McDonald's**

002-13-64-01109

10. A garrison of this king's troops was massacred after failing to correctly say "shield and friend." Edmund Crouchback was sent to negotiate with this king after he took Gascony from a contemporary of his. During the "terrible day of Anagni," this king's advisor Guillaume of Nogaret imprisoned the pope who had issued the bull *Unam Sanctam*. That pope was Boniface VIII. This king's forces, led by Robert II of Artois, were defeated by those of William of Julich at a battle near Courtrai. Jacques de Molay and Geoffroi de Charnay were killed at the behest of this king, who convinced Clement V to outlaw the Knights Templar and to move to Avignon. For 10 points, name this French king who lost control of Flanders after the Battle of the Golden Spurs.

ANSWER: **Philip IV** of France [or **Philip the Fair**]

149-13-64-01110

11. One of this author's novels follows a man who plays *Harvest Moon* all the time and is antagonized by Skinner, who is reading Alan de Fretais's tell-all *The Bedroom Secrets of the Master Chefs*. Another of this author's protagonists follows Lexi in the Capital City Service, a gang of soccer hooligans that supports Hibernian F.C., and fantasizes during a lengthy coma about joining Sandy Jamieson on a safari in South Africa. This writer of *Marabou Stork Nightmares* wrote *Porno* as a sequel to his most successful novel and used a tapeworm inside corrupt policeman Bruce Robertson as the narrator of *Filth*. In the most notable novel by this man, one character has a constant internal dialogue with Sean Connery, Second Prize McLaughlin ruins his soccer career with alcoholism, Sick Boy Williamson neglects his daughter Dawn, and Mark Renton narrates the experiences of a group of heroin addicts. For 10 points, name this Scottish author of *Trainspotting*.

ANSWER: Irvine **Welsh**

019-13-64-01111

12. An activist in this country wrote "Guide her leaders / And give her peace" in one poem; that activist was Trevor Huddleston. A man escaped from this country in a mail truck, while pretending to be Father David C. Curran. That man wrote for the *Daily Dispatch*. A protest song against this country states "We're rockers and rappers / United and strong", the lyrics for which were written by Steven van Zandt. The Cillie commission investigated an uprising sparked by the passage of the Medium decree in this country. In that song, musicians pledged to not play at a casino resort in this country, "Sun City". Donald Woods was a journalist who supported Steve Biko, the leader of this country's Black Consciousness Movement. The Poqo and the "Spear of the Nation" were two armed groups in this country, the former of which helped the PAC. For 10 points, the Sharpeville and Soweto massacres occurred during the apartheid era of what country?

ANSWER: **South Africa**

149-13-64-01112

13. At passive continental margins, such as that offshore of Angola, a décollement of this mineral can create rafts, or fault blocks separated by extreme extension. Contraction of two stratal units separated by this mineral can result in the formation of a teardrop-shaped deposit of this mineral and the creation of namesake weld where the stratal units meet. Processes that lead to the formation of intrusions of this mineral can be classified as active, reactive and passive, in which it takes place by downbuilding. The Zagros Mountains in Iran are known for their glaciers of this mineral. Because deposits of this mineral are mostly nonporous, their density does not increase when they are buried. Due to that, deposits of this mineral become less dense than the overburden and can flow upwards to form diapirs, such as domes, and create stratigraphic traps where hydrocarbons can be found. Flats of this mineral are commonly left behind in arid regions where the rate of precipitation is exceeded by the rate of evaporation. For 10 points, identify this mineral whose movement is studied in halokinesis and is the mineral form of sodium chloride.

ANSWER: rock **salt** [or **halite**]

066-13-64-01113

14. Anton Bruckner wrote an Intermezzo in D minor to replace the second movement Scherzo of his only work in this genre. Beethoven revised his wind octet to create one piece in this genre, which also includes his opus 29. Dvorak's third work in this genre uses a double variation in its Larghetto movement and was composed in Spillville, Iowa while his second work in this genre unusually includes a double bass. Mozart's third and fourth work in this genre, the latter written while his father was dying, were completed back-to-back and are in C major and G minor. *L'Ucelliera* and *Night Music in the Streets of Madrid* are examples of the over one hundred compositions in this genre by Luigi Boccherini, whose most well-known work is a minuet from one in E. Schubert's last chamber work was a piece in this genre in C major. For 10 points, identify this type of chamber composition that is usually scored for a string quartet plus either a viola or cello.

ANSWER: **string quintets** [prompt on **chamber** music]

066-13-64-01114

15. Diodorus Siculus attributes the "walking pose" of statues of youths called *kouroi* to this figure, who was also claimed as an ancestor by Socrates. This man's skill in sculpture and metalworking is also shown on a pair of golden temple doors located variously in Sicily or Cumae. This man took refuge at the court of King Cocalus, whose daughters boiled his pursuer alive after he appeared searching for a man to thread a string through a seashell. When the Athenians sought to claim this figure as one of their own, they explained his departure from the city with the story that he grew jealous of his nephew for inventing the saw and threw him off the Acropolis. This man's own creations include a wooden cow used by Pasiphae and two pairs of wax and feather wings. For 10 points, name this architect of the Labyrinth and father of Icarus.

ANSWER: **Daedalus**

105-13-64-01115

16. When this team returned to the World Cup in 1950, after a sixteen year hiatus, they upset England after striker Joe Gaetjens scored the only goal of the game. This team ended Spain's record-breaking fifteen consecutive wins by defeating them in the semi-finals of the 2009 Confederations Cup, although they lost to Brazil in the finals. Referee Koman Coulibaly famously denied a goal in this team's game against Slovenia at the 2010 World Cup. This team tied England 1-1 in their last competitive match due to a goalkeeping error made by Robert Green off a weak shot by Clint Dempsey. For 10 points, name this national team known for pulling off a stoppage time winning goal against Algeria in the 2010 World Cup and for featuring players like Landon Donovan.

ANSWER: USMNT [or United States Men's National Team; or United States of America Men's National Team; or USA Men's National Team]

002-13-64-01116

17. While testifying for a measure that banned public funding for private institutions in Maine, Arthur Leigh exclaimed that he was a member of this group. This group supported the Barwise Bill. This group counted Bill Wilkinson as one of its members before Jerry Thompson revealed that he was working for the FBI. The Enforcement Acts were primarily passed to target this group, which was sold to James Colescott and Samuel Green by Hiram Wesley Evans. *Whitney v. California* was overruled by a case involving Clarence Brandenburg, who belonged to this group. The first leader of this group gained fame after escaping from Fort Donelson and led the Fort Pillow Massacre. Nathan Bedford Forrest was, for 10 points, the first Grand Wizard of what cross-burning, white-hood wearing, creepy-ass-cracker racist group?

ANSWER: Knights of the Ku Klux Klan [or KKK; or the Klan]

149-13-64-01117

18. This scientist names the most widely used destructive technique for measuring the current of an ion beam, which is his namesake "cup." Two laws formulated by this scientist state that the quantities of different elements deposited by a given amount of electricity are in the ratio of their chemical equivalent weights and the amount of a substance deposited in each electrode of a cell is directly proportional to the quantity of electricity passed through the cell. This scientist names a structure used to electrically isolate electrodes that typically consists of an aluminum mesh. The universal gas constant and a constant named for this scientist appear in the Nernst equation; that constant is equal to elementary charge multiplied by Avogadro's number. For 10 points, identify this scientist who devised that aforementioned structure, his namesake "cage".

ANSWER: Michael Faraday

066-13-64-01118

19. One poem by this author claims that "there's nothing sentimental about the technique of writing," which can be mastered by "any young man with a mind bursting to get out." This author argued that "The United States without self-seeking has given more of material help to Europe and to the world than have all other nations of the world put together in the entire history of mankind" in the chapter "Jacataqua," from a book which contains short biographies of people like Eric the Red, Walter Raleigh, and Daniel Boone. Another book by him begins with the section "The Delineaments of the Giants," which mentions "blank faces of the houses and cylindrical trees" to reinforce that there are "no ideas but in things," and describes a place that "lies in the valley under the Passaic Falls, its spent waters forming the outline of his back." For 10 points, name this author of *In the American Grain* and an epic about his New Jersey hometown, *Paterson*.

ANSWER: William Carlos Williams

019-13-64-01119

20. The facial expressions of the figures in the back of this painting proceed from open-lipped, to a smile, to a blushing laugh; one of those figures was allegedly based on the mistress of William II. One of the title figures in this painting has his genitalia covered by one of a pair of cooing doves. A character modeled on the brother of Marius Petipa secretly removes the footwear of that title figure in the lower right of this painting. That title figure reclines wearing a sash of flowers, as the other title figure attempts to crown him with a rose-laurel wreath and his armor and bow are carried off by the Graces. For 10 points, name this "terrifyingly large" painting completed by Jacques-Louis David just before his death that depicts god of war being seduced by the goddess of love.

ANSWER: Mars Being Disarmed by Venus and the Three Graces [or Mars Being Disarmed by Venus and the Graces]

002-13-64-01120

21. Judith Weir's *Scipio's Dream* is a recomposition of this composer's *Il sogno di Scipione*. One of Fernando Sor's best known works was a set of variations based on "Das klinget so herrlich", another aria by this composer. The opening of this composer's Piano Sonata in A major was used as the basis for *Variations and Fugue on a Theme by [him]* by Max Reger. One of Chopin's earliest works was a set of variations on an aria by this composer, "Là ci darem la mano". Four works by composer, including Liszt's piano transcription of his *Ave verum corpus*, were orchestrated by Tchaikovsky in his fourth orchestral suite. For 10 points, identify this composer whose *Don Giovanni* and *Die Zauberflöte* have inspired many composers.

ANSWER: Wolfgang Amadeus Mozart

066-13-64-01121



1. This group formed from the remnants of Luther Blissett shortly after the publication of *Q* in 1999. For 10 points each:

[10] Name this Italian literary identity which has collaborated on the first novel of the planned "Atlantic Trilogy," *Manituana*, and a novel about the fate of the Italian Resistance after the war, *54*.

ANSWER: **Wu Ming**

[10] Group member Wu Ming 1 is the Italian translator of both Elmore Leonard and this other American genre author, whose books include *Pet Sematary* and *The Shining*.

ANSWER: Stephen **King**

[10] A fictional example of identity confusion in Italian literature came in this 1904 novel, in which a former rival of Malagna takes on the identity "Adriano Meis" and begins to wear sunglasses to hide his crossed eyes, following his being declared dead during a gambling excursion.

ANSWER: *The **Late Mattia Pascal*** [or *Il **Fu Mattia Pascal***]

019-13-64-01201

2. This ruler exempted Quechua speakers from taxation. For 10 points each:

[10] Name this son of Viracocha who defeated the Chanca invasion of Cuzco. The sun temple Coricancha, and possibly Machu Picchu, were built by this ruler.

ANSWER: **Pachacuti** Inca Yupanqui [or **Cusi Yupanqui**]

[10] Pachacuti greatly expanded this Andean empire that was divided into four suyus. Its final ruler, Atahualpa, was defeated by Francisco Pizarro.

ANSWER: **Incan** Empire [or **Tawantinsuyu**]

[10] This was the title given to the head of each ayllu in the Incan Empire. This person was in charge of divvying up the ayllu's land and labor.

ANSWER: **curaca**

149-13-64-01202

3. Identify these people who name theorems with someone whose noted subjects include haberdashery, for 10 points each.

[10] Marshall H. Stone names a theorem with this man which states that if K and L are two compact Hausdorff spaces, such that the space of all real-valued, continuous functions on K and L are isometrically isomorphic spaces named for this man, then K and L are homeomorphic.

ANSWER: Stefan **Banach**

[10] Stone names a theorem with this mathematician which states that every real- or complex-valued continuous function defined on a closed interval can be approximated uniformly by polynomials.

ANSWER: Karl **Weierstrass**

[10] Stone names a theorem with this mathematician that is equivalent to the uniqueness of the representation of the canonical Heisenberg commutation relations. He pioneered game theory and names a computer architecture in which both instructions and data are stored in RAM.

ANSWER: John **von Neumann**

066-13-64-01203

4. It's fair to say that classical music was changed forever when Felix Mendelssohn re-premiered this work in 1829. For 10 points each:

[10] Identify this Johann Sebastian Bach work whose tenor part is sung by the Evangelist.

ANSWER: *Saint Matthew's Passion*, **BWV 244** [accept either; or *Matthäus-Passion*; prompt on **SMP**]

[10] God is begged for mercy in this 12/8 time, alto aria from the *Saint Matthew Passion*, which occurs after Peter's denial of Jesus. Plucked cello notes in it represent Peter's tears, and it repeats the motif of a minor sixth leap followed by a descending minor third.

ANSWER: "**Erbarme Dich**, mein Gott, um meiner Zähren willen" [or "**Have mercy**, Lord, on me"]

[10] In Leipzig, a Passion was performed every year on this day of the Holy Week, as it commemorates the crucifixion and death of Jesus.

ANSWER: Good **Friday** [or Holy **Friday**; or Black **Friday**; or Great **Friday**]

066-13-64-01204

5. The city of Shuruppak was holy to this goddess, who in some stories changed her name from Sud. For 10 points each:

[10] Name this goddess of the air and of grain, who conceived different children when her husband impregnated her in the guise of water, the gatekeeper, the underworld river, and the boatman.

ANSWER: **Ninlil** [or **Mullissu**]

[10] Ninlil's charming consort Enlil orchestrated this cataclysmic event to wipe out humanity because he couldn't tolerate their noise. Fortunately, Ea helped Utnapishtim survive it in a manner similar to a Biblical story.

ANSWER: great **flood** [or **deluge**; accept any synonyms]

[10] One of Ninlil's children was the god Nanna, or Sin, who ruled this domain.

ANSWER: the **moon** [or **Luna**]

020-13-64-01205

6. Pezdek and Hodges extended this study by making the confederate a family member, but found that it was less effective when the fiction involved an enema. For 10 points each:

[10] Name this study, which Jacqueline Pickrell and Katherine Ketcham assisted in performing, that convinced several people that they had undergone the title traumatic experience as a child in order to demonstrate the unreliability of "recovered memories."

ANSWER: the **lost in the mall** experiment

[10] The lost in the mall experiment was designed by this coiner of the "misinformation effect" and frequent expert witness explaining the unreliability of eyewitness testimony.

ANSWER: Elizabeth **Loftus**

[10] Along with John Palmer, Loftus showed the role of vocabulary in shaping memories by asking how fast a car in an accident was going. Participants gave higher speeds when asked how fast the car was travelling when it "collided" than when it "contacted," but gave the highest speed when this word was used to describe the accident.

ANSWER: "**smashed**"

019-13-64-01206

7. Name these Chilean authors, for 10 points each.

[10] A country ruled by wolves charges a monkey photographer with erasing the existence of the title creatures in *The Rabbits' Rebellion*, a novel by this author of *How to Read Donald Duck* and *Death and the Maiden*.

ANSWER: Ariel **Dorfmann**

[10] This author described "green, innumerable, immaculate nipples of nature" in his "Ode to Olive Oil." He also wrote *Canto General* and *Twenty Love Poems and a Song of Despair*.

ANSWER: Pablo **Neruda**

[10] This author of *The Days of the Rainbow* and *The Dancer and the Thief* fictionalized Pablo Neruda in *Ardent Patience*, the basis for the film *The Postman*.

ANSWER: Antonio **Skarmeta**

019-13-64-01207

8. Answer the following about the characterization and analysis of polymers, for 10 points each.

[10] This type of spectrometry irradiates a surface with inert gas ions and analyzes the sputtered byproducts. It is often complemented by ion-scattering spectroscopy.

ANSWER: **SIMS** [or **secondary-ion mass** spectrometry]

[10] Thermal transitions in polymers are typically studied with the differential scanning form of this device.

ANSWER: differential scanning **calorimeter** [or **DSC**; or word forms]

[10] Attenuated total reflectance spectroscopy, which is the most widely used method of analyzing polymer surfaces, uses this type of light as a source. Absorption spectra for this kind of spectroscopy is indicative of unsymmetric bond stretching and bending.

ANSWER: **IR** [or **infrared**]

066-13-64-01208

9. This artist pulled from Fénelon's romance *Télémaque* for the painting *Telemachus and the Nymphs of Calypso*. For 10 points each:

[10] Name this Swiss painter that was helped out of a fraudulent marriage by good buddy Joshua Reynolds, and painted an ovular *Judgement of Paris*.

ANSWER: Angelica **Kauffman**

[10] Angelica Kauffman is probably best known for this painting on display at the Virginia Museum of Fine Arts, in which the title Roman woman responds to another woman holding up a jeweled necklace.

ANSWER: **Cornelia**, *Mother of the Gracchi*, **Pointing to Her Children as Her Treasures** [or **Cornelia Pointing to the Gracchi**]

[10] While Joshua Reynolds was absolutely determined to marry Angelica, she ALLEGEDLY got seduced and had an affair with this revolutionary who is depicted in a bathtub after being stabbed to death by Charlotte Corday in one painting.

ANSWER: Jean-Paul **Marat**

002-13-64-01209

10. The highest mountain in this range is Jengish Chokusu, which means Victory Peak. For 10 points each:
[10] Identify this mountain range also home to Khan Tengri in Kazakhstan. The mentioned peaks in this range are two of the five you needed to attain the Snow Leopard award, along with three peaks in the Pamir mountains.

ANSWER: **Tian Shan** [or **Tien Shan**; ah fuck it]

[10] The Tian Shan mountains mainly lie on the border of this country and China. This country contains Victory Peak.

ANSWER: **Kyrgyzstan**

[10] This lake in the Tian Shan gives its name to one of Kyrgyzstan's oblasts. Despite residing over 1600 meters above sea level, this lake never freezes, which is why its name literally means "warm lake".

ANSWER: **Issyk** Kul

066-13-64-01210

11. This novel's title refers to the Snámh dá Én ford, and its middle section is about the western hero John Furriskey, a creation of the fictional writer Dermot Trellis. For 10 points each:

[10] Name this 1939 novel in which several fictional universes begin to collide, culminating at the Red Swan Hotel, where various characters such as Sheila Lamont and Pooka MacPhellimey resolve to torture their creator.

ANSWER: **At-swim Two Birds**

[10] This author of *At-Swim Two Birds* and *The Third Policeman* used the pseudonym "Myles na gCopaleen" to write a novel in Irish, *The Poor Mouth*.

ANSWER: Flann **O'Brien** [or Brian **O'Nolan**]

[10] The third section of *At-Swim Two Birds* focuses on characters of the mythical past, including King Sweeney and this Irish hero who cooks the Salmon of Wisdom. Wikipedia's section on him "in modern literature" briefly mentions his use in the Ossian poems before devoting an entire page to transcribing a Dropkick Murphys song.

ANSWER: **Finn** Mccool [or **Fionna** mac Cumhail, etc.]

019-13-64-01211

12. A king in this battle lined the shores of a certain river with archers. For 10 points each:

[10] Name this Egyptian naval victory over the Sea Peoples that took place around 1175 BCE.

ANSWER: Battle of the **Delta**

[10] The third pharaoh of this name defeated the Sea Peoples at the Battle of the Delta, which is recorded in his temple at Medinet Habu. The second pharaoh of this name was the son of Seti I and won a Pyrrhic victory at the Battle of Kadesh.

ANSWER: **Ramses** [or **Ramesses**]

[10] This papyrus scroll describes the reign of Ramses III. It also details Setnakhtes expulsion of the followers of Irsu and is currently the longest known papyrus scroll from Egypt.

ANSWER: Papyrus **Harris** I [or Great **Harris** Papyrus]

149-13-64-01212

13. An optical lever consisting of a laser beam and a position-sensitive detector are used to measure vertical and lateral deflections in this type of microscopy. For 10 points each:

[10] Identify this type of microscopy that uses very small cantilevers typically fabricated from silicon or silicon nitride.

ANSWER: **AFM** [or **atomic force** microscopy; or **SFM**; or **scanning force** microscopy; prompt on **scanning probe** microscopy]

[10] The scanning of an AFM tip over a surface can be precisely controlled by the use of a ceramic with this property. Quartz has this property, which results in the production of electric charge in the presence of mechanical stress.

ANSWER: **piezoelectricity**

[10] The two major modes of AFM are contact, or quasistatic mode, and this mode, which oscillates the cantilever near its fundamental flexural resonance frequency. It is often used when materials are too soft, when residual, mobile species are present at the surface or when specimens are poorly adsorbed.

ANSWER: **tapping** mode AFM [or **dynamic** force AFM; or **AC** mode AFM; or **vibrating** mode AFM; prompt on **non-contact** mode AFM; prompt on **intermittent-contact** AFM]

066-13-64-01213

14. The overture to this work opens with an three unison E's from the brass, and one character urges that a bundle of letters be destroyed after he suffers a supposedly fatal wound. For 10 points each:

[10] Name this opera in which the Marquis of Calatrava swears his daughter must only marry a man of purest stock, before he is accidentally killed by a dropped gun.

ANSWER: *The **Force of Destiny*** [or *La **forza del destino***]

[10] This mestizo nobleman accidently kills Leonora's father when he catches them together. After joining the army under an assumed name he saves the life of a man that has sworn to kill him.

ANSWER: Don **Alvaro**

[10] *The Force of Destiny* is an opera by this composer of the canzone *La donna è mobile*. He composed a triumphal march to herald Radames's return to Egypt, after defeating the Ethiopians, in another opera.

ANSWER: Giuseppe **Verdi**

002-13-64-01214

15. This book claims to be an exploration of "the principles of the late Earl of Shaftesbury" but goes on to introduce several original concepts, including the ideal of "uniformity amidst variety." For 10 points each:

[10] Identify this 1725 aesthetic treatise which posits an "internal sense" that connects human appreciation to the internal value of an art object.

ANSWER: *An **Inquiry Into the Original of Our Ideas of Beauty and Virtue***

[10] This Scottish author of *An Essay on the Nature and Conduct of the Passions and Affections* and *System of Moral Philosophy* wrote *An Inquiry Into the Original of Our Ideas of Beauty and Virtue* and developed a "general welfare" principle that anticipated utilitarianism.

ANSWER: Francis **Hutcheson**

[10] Hutcheson provided feedback on the rough draft of this man's *Treatise of Human Nature*. This man wrote against miracles in *An Enquiry Concerning Human Understanding*.

ANSWER: David **Hume**

019-13-64-01215

16. An actress in this movie asked if her breasts could get their own place in the credits, and a character receives a painting of Jesus playing hockey as a gift. For 10 points each:

[10] Name this movie in which Agent Ashburn and Detective Mullins, who is played by a former *Gilmore Girls* actress, attempt to catch the up-and-coming drug lord "Larkin".

ANSWER: The Heat

[10] This actor plays the ex-con brother of Detective Mullins. He previously starred on the tragically short-lived sitcom "The War at Home" and played Frank on "My Name is Earl". He was named MVP of the 2010 NBA All-Star Celebrity Game for his shutdown defense on Terrell Owens.

ANSWER: Michael Rapaport

[10] In a mid-credits scene, Mullins notes that she was driving around and saw this "little asshole". Ashburn then admits that he actually belongs to the neighbors.

ANSWER: Pumpkin [prompt on "her cat"]

002-13-64-01216

17. This man adapted his short story "Sadhji" into an "African ballet" depicting Numbo's desire for Mrabo, and he wrote the provocative "Smoke, Lilies, Jade" for *Fire!!*. For 10 points each:

[10] Name this gay Harlem Renaissance author of *Beyond Where the Stars Stood Still*.

ANSWER: Richard Bruce Nugent [or Richard Bruce]

[10] Nugent is fictionalized as Paul Arbian in *Infants of the Spring*, a novel by this roommate of Nugent who also wrote *The Blacker the Berry*.

ANSWER: Wallace Thurman

[10] This author of "The Weary Blues" and "Let America Be America Again" also contributed to *Fire!!*

ANSWER: Langston Hughes

019-13-64-01217

18. *Note to moderator: do not read the alternate answer to the first part.*

This man exiled his mother, Theresa, after the Battle of Sao Mamede. For 10 points each:

[10] Name this king who won the Battle of Ourique. He built the Alcobaca Monastery as a gift to Bernard of Clairvaux.

ANSWER: Alfonso Henriques [or Alfonso I of Portugal; or Afonso instead of Alfonso]

[10] Alfonso I was the first king of this country, which he carved out of the southern portion of the Kingdom of Galicia. Alfonso I was officially recognized as king of this Iberian country by Alexander III.

ANSWER: Kingdom of Portugal

[10] At the Battle of Ourique, Alfonso I defeated this Moorish empire, which was led by Ali Ibn Yusuf.

ANSWER: Almoravid [or Almoravids]

149-13-64-01218

19. The T-psi-C arm of a certain molecule contains this nucleoside and thymidine. For 10 points each:

[10] Identify this most abundant modified nucleoside, which unusually contains a carbon-carbon glycosyl bond rather than the usual nitrogen-carbon.

ANSWER: pseudouridine [or pseudouracil; or 5-ribosyluracil; or the 5-ribosyl isomer of uridine]

[10] Pseudouridine is found ubiquitously in the small nuclear, small nucleolar, ribosomal and transfer varieties of this biological molecule, which contains uracil instead of thymine.

ANSWER: RNA

[10] The T-psi-C arm of tRNA is an example of this structure that occurs when nucleic acid strands fold back on themselves to make base pairs. They are a large part of RNA secondary structure and are found with single-stranded regions in pseudoknots.

ANSWER: hairpin loop [or stem-hairpin loop; or U-turn; prompt on loop; do not accept "bulge loops" or "internal loops"]

066-13-64-01219

20. Robert Kennedy placed Edward Lansdale in charge of this operation. For 10 points each:

[10] Name this covert operation that was put in place after the failure of the Bay of Pigs invasion.

ANSWER: Operation **MONGOOSE** [or **Cuban Project**; or **Special Group Augmented**]

[10] Operation MONGOOSE was one US attempt to topple this leader's government in Cuba. He was succeeded as President by his brother Raul in 2011.

ANSWER: Fidel Alejandro **Castro** Ruz

[10] James Donovan was part of an attempt to kill Castro by giving him this type of item laced with poison. Meant as a gift, this item was to be given to Castro when he negotiated the release of the Bay of Pigs prisoners.

ANSWER: a **wet suit** [or a **diving suit**]

149-13-64-01220

21. This agreement created separate parliaments for a country's Cisleithanian and Transleithanian regions.

For 10 points each:

[10] Name this 1867 compromise that was negotiated by Friedrich von Beust and signed by Franz Joseph I.

ANSWER: **Ausgleich** [or **Kiegyezés**; prompt on **Austro-Hungarian** Compromise of 1867]

[10] The Ausgleich led to the creation of this country's dual monarchy. Occasionally abbreviated as *kuk*, this country was ruled by the House of Habsburg.

ANSWER: **Austria-Hungary** [or **Austro-Hungarian Empire**; or **Austro-Hungarian Monarchy**; or **Kingdoms and Lands Represented in the Imperial Council and the Lands of the Holy Hungarian Crown of Saint Stephens**]

[10] This Hungarian strongly supported the *Ausgleich*. This Minister of Justice in the Batthyany Government chose to support Gyula Andrássy as Hungary's first Prime Minister instead of seeking the position himself.

ANSWER: Ferenc **Deak**

149-13-64-01221