**ACF Nationals 2010**

**Packet by Carleton and UCLA**

1. Short stories by this writer include “Mixing Cocktails” and “Illusion,” while protagonists created by this writer who are unlucky in love include Marya Zelli and Julia Martin. This writer’s novel about the aging Sasha Jensen’s return to Paris and her subsequent affairs with a gigolo was written in stream of consciousness and titled *Good Morning Midnight*. In a novel by this author, another protagonist is abandoned by her British husband Lancelot Grey Hugh Smith, at which point Anna Morgan shacks up with an older man and becomes a chorus girl. That novel, *Voyage in the Dark* was followed by a novel that re-imagines a Victorian classic and ends with a suicide by Edward Rochester’s creole wife, Bertha. For 10 points, identify this author of *The Left Bank* and *Wide Sargasso Sea*.

ANSWER: Jean **Rhys**

2. One story about this ruler says that, in order set fire to a town in Sicily, he captured a bunch of sparrows and put wax and brimstone on their wings so that they would set fire to the thatched houses in which they nested. This ruler is referred toas the “son of the King of Varangia" in the *Strategikon*, in homage to the time he spent in the service of Michael IV and the Empress Zoe in Constantinople. Upon returning home, his used his great wealth to force joint rule with Magnus the Good. After some wars against Einar and Svein Ulfsson of Denmark, he was supported as rightful heir to the English throne by Tostig, Earl of Northumbria, who died in the same battle as this man. For 10 points, name this King of Norway, a contender for the English throne who lost at the Battle of Stamford Bridge.

ANSWER: **Harald Haadrada** [or **Harald Sigurdsson**;or **Harald III**]

3. Leonard Howell set forth six fundamental principles for this religion. One sect of this religion believes that each member of the religion is a member of one of twelve houses and was founded by Vernon Carrington. Branches of this religion are known as “mansions.” Important texts in this religion include *The Holy Piby* and *The Kebra Nagast*. This religion’s slang is called Iyaric and “I-and-I” is used to refer to the oneness of God. Worshippers are forbidden from eating pork, shellfish, and red meat, because they make the body a cemetery. That diet is called I-tal and practitioners of this religion are exiles from Babylon. Adherents to this religion believe that Haile Selassie is Jah and try to expel corruption from their bodies by smoking *ganja*. For 10 points, name this religion popular in Jamaica.

ANSWER: **Rasta**farianism [accept **Rasta**fari Movement]

4. The SLIM experiment at Chacaltaya in Bolivia is an attempt to discover intermediate-mass ones; another bound comes from a Radio Ice Cherenkov Experiment at the South Pole. On Valentine’s Day in 1982, a possible but unconfirmed signal of one was recorded by Blas Cabrera. JJ Thomson showed that a static configuration of one separated from an electric charge by some distance has a classical angular momentum along the line between them. Restricting this angular momentum to be a multiple of one-half h-bar leads to the Dirac quantization condition, which is one way to understand why they famously could explain the quantization of electric charge. Another explanation involves Dirac strings. For 10 points, name this theoretical object that produces a B field similar to the E field produced by a point charge.

ANSWER: **magnetic monopole**(prompt on **monopole**, do not accept **electric monopole**)

5. This work’s protagonist wants "a novel with a good detective story in it", and wants to avoid the "romance and beauty of life" as well as "love's young dream." This declaration prompts her lover to leave her and vow to be like a brother to her, which he may indeed be, according to another character named Crofts.  In another section of this work the reader learns of the “Gospel of Art,” a philosophy espoused by an architect and central character. Another character’s rejection is followed by the protagonist’s decision to go to Chancery Lane to do actuary work at Honoria Fraser's chambers, ungratefully using the math education provided for by the profits of her mother’s business.  For 10 points, name this work that includes the characters of Praed and Frank Gardner and turns on Vivie’s realization that Kitty is a Madam, a play by George Bernard Shaw.

ANSWER: ***Mrs. Warren's Profession***

6. The article outlining this theory cited survey data by Elinor Ostrom as supporting the idea that resources must be devoted to supporting community needs. A 2008 paper by Keizer et al in Science reported six field experiments in support of it, though articles by Harcourt and Ludwig cited data from Housing and Urban Development relocation projects as evidence against it. It has also been criticized for neglecting to consider alternative causes such as abortion by Steven Leavitt. This theory was initially described in an *Atlantic Monthly* article by Wilson and Kelling, and developed out of an experiment concerning abandoned vehicles in the Bronx and Palo Alto conducted by Zimbardo. Many attribute reduced crime in New York in the 1990s to the implementation of this theory by Rudy Giuliani. For 10 points, name this theory that decreasing disorder will reduce crime.

ANSWER: **broken windows** theory

7. As it opens, a girl with no head covering and a soldier walk by, only five minutes after the guard patrol. A recurring image in this work is the “shadow of the leaves,” where the action takes place. After pulling down shutters one character in this work asserts that he has “never had confidence,” and notes that you do not want music, nor can you stand with dignity at a bar. Earlier it is revealed that the man who counts the saucers was saved by his niece, who cut him down when he tried to commit suicide. First published in 1933 and collected in its author’s *Winner Take Nothing*, it ends with one of the characters stopping by a bodega to ward off insomnia; that section is preceded by a recitation of the Lord’s Prayer with the use of the word “nada” sprinkled throughout. For 10 points, identify this short story that centers on a pair of waiters debating why an old man needs a café with the title characteristics, a work by Ernest Hemingway.

ANSWER: **“A Clean Well Lighted Place”**

8. The first of these objects was discovered in 1920, but was not classified until the 1970s. That object was Hidalgo. Recently, the first binary pair of these objects was discovered. It consists of Echidna and Typhon. Charles Kowal discovered the first of these objects, which was later reclassified after the discovery of ice-jets emanating from it. The unstable orbits of these bodies are caused by the perturbation of a nearby planet. These bodies are believed to originate in the Kuiper Belt and examples of them include Echeclus, Chariklo, and Chiron. They exhibit behavior that is in some ways a hybrid of asteroids and comets, hence their name. For 10 points, name these icy planetoids that orbit between Jupiter and Neptune, named after Greek mythological half-men half-horses.

ANSWER: **centaur**s

9. This city’s Chinatown was the site of the Wah Mee massacre, and its suburbs include Bainbridge Island and Mercer Island. Its neighborhood of First Hill is nicknamed Pill Hill due to a large number of hospitals, while Capitol Hill and the Denny Regrade are two of this city’s seven hills. Its entire central business district was burnt down in 1889 and it hosted America’s first city-wide general strike. Boasting a public library designed by Rem Koolhaas, it is also the home of the Bumbershoot Music Festival and has a notable Science Fiction Museum. Surrounded by Kirkland, Bellevue, and Redmond, this seat of King County is situated on Puget Sound. For 10 points, name this birthplace of Starbucks and largest city in Washington State.

ANSWER: **Seattle**

10. The early stages of this event saw Sackville Carden replaced as general by John de Robeck - later on, it saw Charles Monro appointed as a replacement after the failure of the August Offensive. This event included minor skirmishes at Lone Pine and the Battle of Gully Ravine, and was the debut of a force commanded by the author of *The Man-Eaters of Tsavo*, John Henry Patterson; that Jewish regiment was called the Zion Mule Corps. Initially, this event saw General Otto Liman van Sanders oppose the force of Ian Hamilton, which was bolstered by a corps of ANZAC troops. Leading to the demotion of Winston Churchill, for 10 points, name this ill-fated British and French invasion of a Turkish peninsula during World War One.

ANSWER: **Gallipoli** campaign [accept **Dardanelles** campaign]

11. At one point in this work, a character is praised for his short responses to questions. In another section of this work, which inspired Olympiodorus to author a namesake *Scholia*, its participants consider what it means to have honor. The title character of this work was well known for positing that even if something exists, that nothing could be known or communicated about it in his work *On Non-being*. Another character argues for a definition of real politics as a style of leadership that compels “hunger and thirst,” a viewpoint contrasted to those politics that are sweet. Characters in this work include Chaerephon, who is blamed for delaying the start of the feast, as well as the “coltish” Polus. It features Callicles telling Socrates to debate himself and its final conclusion is that “rhetors” are tyrants. Named for a disciple of Protagoras, for 10 points, name this Platonic dialogue, titled after a Sophist.

ANSWER: ***Gorgias***

12 One compound containing this metal is used as a catalyst in both a reaction converting an alkene to a cis-vicinal diol and an improvement on that reaction using chiral quinine ligands; those reactions are dihydroxylations named for Upjohn and Sharpless. Kellenberger’s solution, which contains this element, is used as a fixative in transmission electron microscopy, though this element is also useful as a lipid stain. Along with ruthenium, this metal is able to achieve a +8 oxidation state, and the aforementioned compound, a highly toxic and unusually volatile yellow solid which has been known to turn people's corneas black, sees this metal in that oxidation state as a tetroxide. For 10 points, name this densest element with atomic number 76 and symbol Os.

ANSWER: **osmium** [accept **Os** early]

13. This writer’s encounter with Napoleon Guay led him to a work about Baptiste who repairs the speaker’s tool in “The Ax-Helve,” while the pieces “Bravado” and “The Night Light” help make up a work collectively known as *Five Nocturnes*. In another work, a speaker notes that he has hidden a “broken drinking goblet like the Grail” before telling his audience to “Drink and be whole again beyond confusion.” That work was published in the collection *Steeple Bush* and is entitled “Directive.” He argued that a poem “begins in delight and ends in wisdom” in, “A Figure a Poem Makes,” an essay published in the 1939 edition of his *Collected Poems*, a volume that begins with such pieces as “A Line Storm Song” and “Home Burial,” works first published in the collections *A Boy’s Will* and *North of Boston*. For 10 points, identify this poet of such works as “Out, Out--,” and “Mending Wall.”

ANSWER: Robert **Frost**

14. Among the unfinished members of this group is the one of *Casa Colonna*, which sits in the Berlin Gallery. Preliminary drawings of many of them can be seen in the so-called “Pink Sketchbook,” including the *Bridgewater* and *Mackintosh* ones. The *Araceli* and *Foligno* ones were modeled on each other, whereas a more unique one features two putti petting the titular creature. The most famous sees St. Barbara and an awed St. Sixtus on the right and left as well as two putti looking up curiously amidst the clouds at the bottom. Some were once mistakenly attributed to their creator’s teacher, Giulio Romano. For 10 points, name this group of works that include the one of the *Meadow*, the Sistine one, and the one of the *Goldfinch*, a collection of paintings by the artist of *School of Athens*.

Answer: **Madonnas by Raphael** Sanzio da Urbino (accept answers that mention **Virgins**, **Virgin and Child**, and **Virgins with Child** as long as **Raphael** is also mentioned; prompt on Madonnas, Virgins, etc. but do NOT prompt on just Raphael)

15. An account by the Italian traveler Marco d'Avalo describes the panic caused by Cornelis Reyersen's 1622 attack on this colony, where local Christian converts were called *jurubassas*. Thirteen years later its inhabitants tried to acquire more artillery by smuggling guns past a Dutch blockade in English ships like the *London*, which brought Peter Mundy to this colony. A tax known as the “Cauldron” was levied on this colony's trade, which centered on sandalwood voyages to Solor and Timor after the collapse of trade to Nagasaki in 1639. Francisco de Mascarenhas was the first captain-general of this colony, which served as a refuge for those persecuted by the Inquisition in Goa. It became a Special Administrative Region with the transfer of power in 1999. For 10 points, name this former Portuguese colony, located across the Pearl River delta from Hong Kong.

ANSWER: **Macao** [or **Macau**]

16. This composer’s third Symphony opens with an impressive array of gongs and cymbals into a staggered bass accompaniment. This composer of two String Quartets also created a piece for two pianos titled *Synthetic Waltzes*. His critical writing was collected in such volumes as *The Musical Scene* and he composed film scores for such works as *The River* and *The Plow that Broke the Plain*. He included a tango and recurring references to the Song “The Bear Went Over the Mountain” in the ballet *Filling Station* and spent more than 30 years composing his *Portraits* for piano. Still another work by this composer of *Symphony on a Hymn Tune* opens at Avila Cathedral and includes the song “Pigeons on the Grass Alas,” as sung by St. Ignatius of Loyola. For 10 points, identify this American composer who collaborated with Gertrude Stein on *The Mother of Us All* and *Four Saints in Three Acts*.

ANSWER: Virgil **Thomson**

17. One individual commonly cited as a daughter of this figure was the spirit of Excuse, Prophasis, while a Corinthian nymph who was either the daughter or wife of this figure was Ephyra. This figure's daughter was the mother of Protogeneia, Thyia, and the king Hellen, and that daughter previously consulted the oracle at Themis with her husband, the last Bronze Age man, about how to repopulate the human race. This figure's agreement with his brother that the latter would inspect this figure's handiwork eventually resulted in that brother's theft of a fennel-stalk from heaven. That theft led to the creation of this son of Iapetus's wife, who would later bear him Pyrrha; he eventually accepted that clay wife from Hermes despite being warned not to by Zeus. For 10 points, name this creator of animals in Greek mythology and husband of Pandora, the foolish brother of Prometheus.

ANSWER: **Epimetheus**

18. The Hickman group pioneered a cell-free system to study their development. Contactin-associated protein 2 localizes to these structures and is thought to organize Kv1.1 localization and, along with C-fibers, these sites are where Nav1.6 most frequently localizes. Features located proximal to these structures include lateral loops, transverse bands, and Schmidt-Lantermann cells. The sequestration of the sodium-potassium pump and voltage-gated channels to these sites ensures that little to no loss of membrane depolarization occurs between these sites. When these sites are absent, continuous conduction occurs; in their presence, saltatory conduction occurs. For 10 points, name these neuronal structures that consist of the gaps in myelin sheaths.

ANSWER: **node**s **of Ranvier** [or **Ranvier**’s **node**s]

19. This character reminds one of his sick friends of how they used to catch sticklebacks in the Klosterbach while trying to cheer him up. This character reveals that he has written a handful of poems and started a play called “Saul.” In an earlier scene, two potato pancakes made by this character’s mother are given to some Russians after a visit from this man’s sister, Erna, and his father. When this character is hospitalized, he is saved from trouble when Josef Hamacher takes the blame for throwing a glass bottle. Near the end of the work in which this character appears, he carries his friend on his back for a long distance to a dressing station only to find out that friend is dead. Earlier, this character becomes stranded in a shell hole and kills the compositor, Gérard Duval. For 10 points, name this German soldier from World War I, the main character of Remarque’s *All Quiet on the Western Front*.

ANSWER: **Paul** **Bäumer** [accept either name]

20. Prior to this battle, James Neill had given way as chief of staff to Major George Washington Hockley, who is credited with nursing the shattered ankle of the winning commander. After Erasmus "Deaf" Smith reported the burning of Vince's Bridge, the winning force was able to aggressively advance its right flank under Henry Millard. Those attackers had two pieces of artillery, a pair of smoothbore guns donated by the citizens of Cincinnati called the “twin sisters," flanked by the infantry of Sidney Sherman on the left. Nearly a month later, the Treaty of Velasco cemented the success of the winners in this battle, which lasted only about 18 minutes. For 10 points, name this decisive 1836 battle by which Sam Houston defeated Santa Anna and captured him the following day.

ANSWER: Battle of **San Jacinto**

21. One use of it has been to suggest that a large axion decay constant, naively ruled out due to its prediction of an overabundance of dark matter, is allowed due to a highly tuned initial angle. Hoyle’s argument for the existence of a particular resonance of carbon-12 is often considered a use of this principle. In cosmology, it is the subject of a book by Barrow and Tipler. Its name was coined by Brandon Carter, and one prominent use is Stephen Weinberg’s 1987 prediction of a small cosmological constant on the basis of galaxy formation. Its weak form is a tautological statement that the universe must be compatible with our knowledge that carbon-based life exists. For 10 points, what is this controversial principle which in one strong form relies on an ensemble of universes in which we live in a rare habitable region?

ANSWER: the **anthropic principle**

22. One of the final scenes in this novel depicts the estate of the protagonist being inspected by the clergy for the presence of idols, as three spinster sisters keep watch. Another scene in the novel sees the protagonist visit the town after dinner with his priest with him. That priest, Father Pirrone, visits his home village in one part of the novel to settle a family dispute and educate the villagers about the changing political landscape. The protagonist’s nephew joins the redshirts and boasts about this at a dinner party, much to the disgust of his cousin Concetta. Angelica falls in love with the dashing Tancredi in the town of Donnafugata where the protagonist and his family are visiting. Centering the Risorgimento’s impact on a Sicilian family, for 10 points, name this novel about Prince Salina who goes by the titular animal nickname, a work of Giovanni Tomasi di Lampedusa.

Answer: ***The Leopard*** or ***Il Gattopardo***

23. One of them places the central figure on the right of the canvas with a row of houses near his left foot and a black goat in the center carrying a mother and child.  Another places the primary figure on the left with a blue face and black and gold loin cloth with a red goat-like creature in the center.  A fourth was sold three months ago and is titled *Apocalypse in Lilac, Capriccio*. The most famous depicts the central figure with a boat approaching on the left and a burning house to the right, with Communists and Nazis on the left and right edges respectively. The main three prominently feature candles near the central figure, two of them depict torahs, and two of them feature prominently placed ladders. For 10 points, name this group of canvases that include the “mystical,” yellow”, and “white” varieties, which depict the same historical event, and which were painted by the artist of "I and the Village".

ANSWER: **Chagall**’s depictions of **Crucifixion** (accept equivalents as long as Chagall and Crucifixion are mentioned)

**Carleton and UCLA Bonuses**:

1. Answer the following about some contemporary legal theorists, for 10 points each.

[10] This Chief Justice on the Seventh Circuit Court of Appeals is the author of *The Economic Structure of Corporate Law* and is a key figure in the Law and Economics movement.

ANSWER: Frank **Easterbrook**

[10] This author of *The Morality of Law* engaged in a famous debate with H.L.A. Hart on ethics and originated *The Case of the Spelucean Explorers.*

ANSWER: Lon **Fuller**

[10] This jurist is known for his pragmatic interpretation of the law in *The Common Law.* He wrote the dissenting opinion in *Lochner* as well as the majority opinion in *Schenck v. United States*.

ANSWER: Oliver Wendell **Holmes** Jr.

2. His works include a *Stabat Mater* for three singers and the opera *La Clementina*, for 10 points each.

[10] Identify this composer who wrote a cello concerto in B flat that is now performed either as originally written or as arranged by cellist Friedrich Grützmacher.

ANSWER: Luigi Rodolfo **Boccherini**

[10] Boccherini composed the *String Quintet in E major* noted for this A major third movement, which is a slow dance in ¾ time.

ANSWER: “The Celebrated **Minuet**” [or **minuetto**]

[10] Boccherini’s “Minuet” was later transcribed for orchestra by this composer and conductor who led the Philadelphia Orchestra for many years and even made an appearance in *Fantasia*.

ANSWER: Leopold **Stokowski**

3. Germline mutations in this gene cause the Li-Fraumeni cancer predisposition syndrome. For 10 points each:

[10] Name this protein, which regulates apoptosis and the cell cycle. Negatively regulated by Mdm2, it is named for its approximate molecular weight.

ANSWER: t**p53** [or tumor **protein 53**]

[10] This pathogen encodes the E6 protein, which binds to and promotes the degradation of p53. Types 16 and 18 of this virus are the most oncogenic.

ANSWER: **human papillomavirus** [or **HPV**, prompt on “papillomavirus”]

[10] This SV40 protein promotes E2F-mediated transcription while also inhibiting p53’s ability to bind DNA. It also interferes with deacetylation through its interaction with HDAC1.

ANSWER: **large T antigen** [prompt on **T-ag**; do not accept **small t antigen** (t-ag)]

4. This 1886 play features a protagonist who perpetrates a series of crimes including the seduction of his stepdaughter Akulina and the murder of his own child, for 10 points each:

[10] Identify this tragedy about Nikita, whose savage tendencies are contrasted with that of his father Akim, a work by Leo Tolstoy

ANSWER: ***The Power of Darkness*** or ***Vlast’ t’my***

[10] Tolstoy’s exploration of poverty and violence mirrors the events in this 1942 work in which a murderer awaiting execution narrates the events of his life; it was written by Camilo Jose Cela.

ANSWER: ***The Family of Pascal Duarte*** or ***La Familia de Pascal Duarte***

[10] The same themes also animated Richard Wright’s *Native Son*, which chronicles the murder of Mary Dalton by this character.

ANSWER: **Bigger** **Thomas** (accept either name)

5. This alliance was aided by the victory of the navy of Ferrara at the Battle of Polesella, for 10 points each:

[10] Name this coalition which brought together Louis XII of France and Ferdinand I of Spain, among others, to oppose the Venetian republic as part of a namesake war in 1508.

ANSWER: League of **Cambrai**

[10] The driving force behind the formation of the League of Cambrai and the Holy League was this warrior pope, who founded the Swiss Guard and was succeeded by Leo X.

ANSWER: **Julius II** or Giuliano della Rovere

[10] This first and most important battle of the War of the League of Cambrai saw Louis XII capture Lombardy and the Orsini commanders forced to retreat to Treviso.

ANSWER: Battle of **Agnadello**

6. Mori and Ban developed an intramolecular version of this reaction. For 10 points each:

[10] Name this reaction, a cross-coupling of a halide and an alkene in the presence of a base and a palladium catalyst.

ANSWER: Mizoroki-**Heck** reaction

[10] Heck reactions carried out in the presence of quaternary ammonium salts are said to follow this scientist’s conditions. Due to phase-transfer effects and stabilization of the palladium catalyst, these conditions promote a faster reaction rate and enhance selectivity.

ANSWER: Tuyet **Jeffery** [the conditions are sometimes also called **Jeffery-Larock** conditions]

[10] One base used for the Heck reaction is the triethyl variety of this functional group, other types of which are reactants in the Hofmann Elimination and products of the Gabriel synthesis.

ANSWER: **amine**s

7. It is heavily used in sub-Saharan Africa besides in its namesake country, and is something of a lingua franca among a certain group of people. For 10 points each:

[10] Name this language, partially developed by Thomas Gallaudet.

ANSWER: **A**merican **S**ign **L**anguage [prompt on “sign language, I guess]

[10] Much of ASL's vocabulary and structure comes from French Sign Language, but it also shows heavy influence from this now dead sign language, mostly found in a place where nearly a quarter of the population was deaf at one point.

ANSWER: **M**artha's **V**ineyard **S**ign **L**anguage [accept **Martha's Vineyard**]

[10] This other sign language developed rapidly from nothing in the 1970s after a particular country established schools for the deaf. Many believe it to be evidence that language acquisition is hard-wired in the brain.

ANSWER: **Nicaraguan** Sign Language or **NSL** [or **I**dioma de **S**eñas de **N**icaragua; do not accept “Lenguaje de Signos Nicaragüense” or “LSN”]

8. This artist's *Salomé* has a black background and depicts the subject wearing a sheer dress and a green bra. For 10 points each:

[10] Name this one-time instructor of Edward Hopper, whose canvases include S*now in New York*, as well as *The Little Dancer* and the nude *Figure in Motion*.

ANSWER: Robert **Henri**

[10] Robert Henri was a co-founder of this group which strove to depict the sometimes seedy urban underbelly of New York City. Many of its members were associated with The Eight.

ANSWER: the **Ashcan School**

[10] While in France Henri studied under this man known for his paintings of young children at work such as in his series on shepherdesses and his *The Knitting Girl*.

ANSWER: (Adolphe)-William **Bouguereau**

9. This author’s earliest short stories include “The Fig Tree” about a woman named Mukami who leaves her husband under cover of darkness, as well a tale about the barren Nyokabi, “And the Rain Came Down!,” for 10 points each:

[10] Identify this author of the collection *Secret Lives*, the critical volume, *Moving the Center: The Struggle for Cultural Freedom*, and such novels as, *The River Between*.

ANSWER: **Ngugi** Wa Thiongo or James **Ngugi**

[10] This Ngugi work, the first published in his native Gikuyu language, centers on Wariinga, a young woman exploited by Western cultural practices, and ends with the third person narrator, Prophet of Justice, providing social commentary.

ANSWER: ***Devil on the Cross*** or ***Caitaani Muthara Ini***

[10] This Ngugi novel depicts a violent clash between colonial authority, as exemplified by the brutal officer Robson, and the people of the village of Thabai, including the protagonists Mumbi and Gikonyo.

ANSWER: ***A Grain of Wheat***

10. The second ruler of this dynasty signed a treaty with Alauddin Husain Shah of Bengal while working to expand his lands. For 10 points each:

[10] Name this dynasty founded by its first ruler, Bahlul, who received the throne from Alam Shah and conquered the lands of the Sharqi sultanate.

ANSWER: **Lodhi** dynasty

[10] The second ruler of the Lodi Dynasty was this son of Bahlul who ousted his brother Barbak and founded modern Agra, before giving way to his son Ibrahim Lodi.

ANSWER: **Sikandar** Lodi

[10] The Lodhi dynasty ended with the 1526 death of Ibrahim at the first battle at this site, where his army was crushed by forces under Babur.  
ANSWER: (first) Battle of **Panipat**

11. Subtitled “An Episode,” it opens with the line, “And the first grey of morning fill’d the east,” for 10 points each:

[10] Identify this 1853 work that ends with one of the title figures, a Tartar champion, being inadvertently slain by his own father, the leader of the Persian forces.

ANSWER: **“Sohrab and Rustum”**

[10] “Sohrab and Rustum” was written by this author of *Culture and Anarchy* and “The Scholar Gypsy.”

ANSWER: Matthew **Arnold**

[10] In this Arnold poem, the title figure tells of how his former love, Margaret, abandoned him, leaving “lonely forever the kings of the sea.”

ANSWER: **“The Forsaken Merman”**

12. For 10 points each, name these boundary disputes between the United States and Canada.

[10] This dispute, which took place on San Juan island, was bloodless, despite its name, and sparked a military standoff between Britain and the United States on the island from 1859 to 1872.

ANSWER: **Pig** War

[10] This conflict resolved by the Webster-Ashburton Treaty saw armies raised around the valley of the namesake river straddling Maine and New Brunswick.

ANSWER: **Aroostook** War

[10] In 1998, Collin Peterson proposed a constitutional amendment which would allow this small strip of land controlled by Minnesota to call a referendum to secede and join Manitoba.

ANSWER: **Northwest Angle**

13. This experiment made use of a 70 foot long Mylar bag filled with helium gas, and it was later improved upon by one of its namesakes and Joseph Snider. For 10 points each:

[10] Name this experiment that used emissions from heated cobalt-57 electroplated onto iron to measure the resonant absorptions of gamma rays by an iron-57 target. It took place in the tower of Harvard’s Jefferson Lab and was a key test of general relativity.

ANSWER: **Pound-Rebka**-Snider experiments

[10] The Pound-Rebka experiment would not have been possible without the discovery of this effect, which explains how an atom contained in a crystal lattice could be used with nearly recoil-free emissions.

ANSWER: **Mössbauer** effect

[10] This experiment further tested gravitational redshift by sending a rocket with a hydrogen maser clock 10,000 km into the air and comparing that clock’s frequency with a clock on the ground.

ANSWER: **Vessot-Levine** experiment

14. She took the name Lauren Kelly to write *The Stolen Heart* and *Take Me, Take Me With You*, and has just completed *Black Girl, White Girl* and *Blood Mask*.  For 10 points each:  
[10] Name this author, now at Princeton, who wrote the novels *Bellefleur* and *A Garden of Earthly Delights*.  
ANSWER: Joyce Carol **Oates**[10]  In this Oates story, Connie runs into the older Arnold Friend, a stranger who knows all about her, and comes to take her away and use her as his own.  Its title is reminiscent of an oddly titled Paul Gauguin painting.  
ANSWER: "**Where Are You Going, Where Have You Been**?"  
[10] This Oates novel set in Mt. Ephraim, New York, traces the disintegration of the title family after Marianne’s rape on prom night.

ANSWER: ***We Were the Mulvaneys***

15. One Cree story about these creatures relates how the hunter White Bear was captured and used a young one of these creatures to escape his captivity, taking a souvenir from that creature. For 10 points each:

[10] Name these beings from various Native American mythologies, an adversary of Qanilailak named Tseiqami in Kwakwaka’wakw mythology, and whose leader is named Keneun in Iroquois myth.

ANSWER: **thunderbird**s

[10] In this group’s mythology, Wakinyan is the name of the Thunderbird, and other beings from its mythology include the water monster Unktehila and the Great Spirit Wakan Tanka.

ANSWER: **Sioux** [or **Lakota** Sioux; or **Dakota**]

[10] This sea creature from Ojibwe myth had considerable control over lakes, forcing travelers to make an offering before crossing. In one story, a child attacked by this creature struck its tail with an oar and got copper.

ANSWER: **underwater panther**s [or **Mishibizhiw**; or **Mishipeshu**; or **Gichi-anami’e-bizhiw**; prompt on partial answer]

16. It involves a washing of the body upon entering into the state of Ihram and ends with the four day Feast of the Sacrifice, for 10 points each.

[10] Identify this pilgrimage to Mecca.

ANSWER: the **Hajj**

[10] Also done during the Umrah, this Hajj ritual involves circumambulating the Ka'bah three times quickly and four times more leisurely. It is usually the last thing done before a Muslim leaves Mecca.

ANSWER: **Tawaf**

[10] Muslims also drink water from this structure, located just east of the Ka'bah, that provided water to Hagar and Ishmael.

ANSWER: Well of **Zamzam** [accept equivalents]

17. Misra and Chandy proposed a general solution involving clean and dirty states for a problem formulated by this man.  For 10 points each:

[10] Name this computer scientist who formulated the Dining Philosopher's Problem and the semaphores that enter into a deadlocked state in that problem.   
ANSWER: Edsger Wybe **Dijkstra**

[10] Edsger Dijkstra formulated this algorithm that deals with resource allocation to various processes by checking whether a resulting state is safe, thus avoiding deadlock.  Its major drawback is that it requires knowledge of the total resources a process could request.

ANSWER: **banker's**algorithm   
[10] Dijkstra's 1974 paper on self-stabilization had a big impact on these type of algorithms, which can have an asynchronous timing model and often use message passing.  Google’s “Chubby” system uses the popular Paxos Algorithm of this type.    
ANSWER: **distributed** algorithms [or **distributed** computing; prompt on "parallel algorithms" or "parallel computing"]

18. Name these things about the grand dames of fashion design, for 10 points each:

[10] She opened up her first hat shop in 1912, but she is most famous for her little black dress and No. 5 fragrance.

ANSWER: Coco **Chanel** (or Gabrielle Bonheur **Chanel**)

[10] She introduced the knit jersey wrap dress in 1973 and is also known for eclectic and exotic-print dresses, sweeping maxi dresses, and boho-luxe swimwear.

ANSWER: Diane Von **Furstenberg** (or Diane Simone Michelle **Halflin**)

[10] Gaby Aghion was the founder and first designer of this fashion house, which would see Karl Lagerfeld and Stella McCartney become lead designer in later years.

ANSWER: **Chloe**

19. Name the following fighters during the Spanish Civil War, for 10 points each.

[10] This commander of the Pamplona garrison coined the term “fifth column,” and led the Army of the North until he died in a plane crash in 1937.

ANSWER: Emilio **Mola** Vidal

[10] This man also fought against the Popular Front government and died in a plane crash in 1936. He had earlier led a coup in 1932 against the Spanish government as Customs Guard.

ANSWER: José **Sanjurjo** Sacanell

[10] This man started the Falange in 1933 and was eventually captured and executed by republican forces in 1936. His father, Miguel, had been dictator of Spain from 1923 to 1930.

ANSWER: José Antonio Primo **de Rivera**

20. This member of the Coefficients Dining Club divided the world into three areas: the World Island, the Offshore Islands, and the Outlying Islands. For ten points each:

[10] Name this man considered a founder of geopolitics and geostrategy, who wrote *The Geographical Pivot in History*.

ANSWER: Halford John **Mackinder**

[10] In *The Geographical Pivot in History*, this region is defined as the center of the World Island. Mackinder argued that controlling this area roughly analogous to the territory of the Soviet Union was key to controlling the world.

ANSWER: the **heartland**

[10] This German general and student of Rudolf Hess was a fan of heartland theory and found it compatible with the desire to find Lebensraum. He developed Geopolitik and linked Japan with the Axis powers in his *Geopolitics of the Pacific Ocean*.

ANSWER: Karl Ernst **Haushofer**

The differences in beak morphology in these animals may have been due to differential timing of BMP4 expression. For 10 points each:

[10] Name these birds, now thought to be varieties of tanager, whose beak variations were studied by a naturalist traveling aboard the *Beagle*.

ANSWER: Darwin’s **finch**es [also accept Galapagos **finch**es or **Geospizinae**]

[10] Stephen Jay Gould popularized the use of this term to describe changes in morphology that are due to alterations in the timing of ontogenetic events, like the BMP4-mediated variations in beak morphology in Darwin’s finches.

ANSWER: **heterochrony** [accept word forms]

[10] A DNA-sequence-based taxonomic system named for this man, Ahlquist, and Monroe was responsible for the regrouping of Darwin’s finches with the tanagers. He shares his surname with the author of a namesake *Guide to Birds*, who is probably America’s foremost living ornithologist.

ANSWER: Charles Gald **Sibley** [the other guy is David Allan Sibley]

With violinist Stephane Grappelli, this man founded the Quintet of the Hot Club of France. For 10 points each:

[10] Name this French gypsy jazz musician who was missing two fingers. He recorded “Nuages,” “Minor Swing,” and “Belleville.”

ANSWER: Django **Reinhardt** or Jean **Reinhardt**

[10] Reinhardt played this instrument, also played by Joe Pass and Grant Green. John McLaughlin played this instrument on Miles Davis’ *In A Silent Way* and *Bitches Brew*.

ANSWER: **guitar**

[10] This guitarist for the Benny Goodman Orchestra was one of the first electric jazz guitarists, having learned it from Eddie Durham. This Oklahoma City native died at 25 and had solos on “Rose Room,” “Solo Flight,” and “Air Mail Special.”

ANSWER: Charlie **Christian**