

## ACF Regionals 2015: A Livable Community

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### Tossups

1. A prophet of this name retells Zenos's [ZEE-nuss-iz] allegory, comparing Gentiles and Jews to cultivated and wild olive trees, in a namesake book which comes third in the *Book of Mormon*. This name graces the last man named in the opening of the Jewish *Amidah* prayer, a Biblical character who made peace with the leader of the Edomites after using peeled, spotted sticks in the process of breeding spotted sheep. That man of this name kept the rival concubines Bilhah and Zilpah, and worked two seven-year indentures for Laban after using the offer of a bowl of stew to trick his brother into handing over his birthright. For 10 points, give this name of the Hebrew patriarch who was born holding his twin brother Esau, and who was renamed Israel after wrestling an angel and seeing a namesake ladder to heaven.

ANSWER: **Jacob** [or **Ya'akov**; do not accept "Israel" or "Yisrael"]

2. In a short story by this author, a clerk whose office has run out of cash is instead paid in defective matches. In a satirical play by this man, a zoologist discovers a method of massive reproduction which is accidentally used to produce vast amounts of snakes, ostriches, and crocodiles, instead of much-needed chickens. This author of "Diaboliad" and *The Fatal Eggs* also described the transplant of a human pituitary gland and testicles that transform Sharik into Polygraph Polygraphovich. This author created a character who predicts the death of Berlioz, a member of MASSOLIT, by decapitation. The title lovers of that novel by this author are reunited and granted peace with the help of Woland. For 10 points, name this author of *The Heart of a Dog* and *The Master and Margarita*.

ANSWER: Mikhail **Bulgakov**

3. An enzyme that binds to this protein forms a heterodimer with APPBP1 to modify another protein very similar to this one called NEDD8. Another enzyme that binds to this protein is encoded in humans by CDC34. This protein forms thioester linkages with three different classes of enzymes with which it interacts in sequence. This protein forms an isopeptide bond between its C-terminal glycine residue and a lysine side chain on its substrate. This protein binds to namesake "activating" and "conjugating" enzymes, labeled E1 and E2, and its attachment to targets by E3 ligases directs those targets to the proteasome. For 10 points, name this small protein that gets attached to proteins targeted for degradation, which is named for the fact that it is found in almost all cells.

ANSWER: **ubiquitin**

4. In an amusing interview, a player for this NBA team recounted that a teammate elbowed him in practice and yelled "I'm the only Silverback!" This team owns the rights to FC Barcelona center Tibor Pleiss, and their starting center is the brother of Olympic shot put gold medalist Valerie. Their recent draft picks include Josh Huestis and Mitch McGary. This team's best player was labeled "Mr. Unreliable" during a 2014 playoff series against Memphis, missed the start of the 2014 season with a broken foot, and gave a speech calling his mom "the real MVP." Nick Collison and Steven Adams play for this team, whose GM Sam Presti failed to re-sign former star James Harden. For 10 points, name this team whose players include Serge Ibaka, Russell Westbrook, and Kevin Durant.

ANSWER: **Oklahoma City Thunder** [accept either underlined portion; or **OKC**]

5. A 2010 paper reported that a new calculation of one of these quantities differs by 5.0 standard deviations from CODATA's value. That quantity is the "charge" type of this property for the proton. The Stokes-Einstein equation for the diffusion constant has this value and viscosity in the denominator. Another of these quantities is equal to  $\hbar$  divided by electron mass, speed of light, and fine structure constant and is named for Bohr. This value is inversely proportional to centripetal acceleration, and is crossed with force to give torque. A type of this property is defined as the distance at which light cannot escape a black hole and is named for Schwarzschild. For 10 points, name this property that is multiplied by  $2\pi$  to give the circumference of a circle.

ANSWER: radius [or charge radius; or Bohr radius; or Schwarzschild radius]

6. One character in this book is serenaded with "For He's a Jolly Good Fellow" after defusing the offense he caused by refusing a strong drink. Another character in this book owns a knife covered in Indian symbols with precious gems on its sheath. Early in this novel, the title character falls into disrepute after claiming that he'd kill half of a howling dog. In this novella, Patsy Cooper takes in two Italian boarders who get accused of the murder of a judge. The title character of this novel, set in Dawson's Landing, exonerates Luigi and Angelo Capello and reveals Judge Driscoll's true murderer by demonstrating fingerprinting. For 10 points, name this Mark Twain novella in which the slave Roxana switches her child with her master's, a scheme foiled by the title lawyer with a pejorative nickname.

ANSWER: *The Tragedy of* Pudd'n'head Wilson

7. This philosopher drew key ideas from the work of Roger Schank's lab at Yale. This man revised his social ontology in *Making the Social World*, updating his view that "status indicators" make institutional facts out of what G.E.M. Anscombe previously called "brute facts." This man insisted on the type-token distinction during a feud in which he attacked the obscurantism of Jacques Derrida. This author of *The Construction of Social Reality* said that it is impossible to derive intentionality from a set of symbols, prompting the "systems reply" and "many mansions" reply. He posited an isolated man who uses a list of instructions to reply to writings in a language he doesn't know. For 10 points, name this American thinker who attacked Strong AI with his Chinese Room thought experiment.

ANSWER: John Rogers Searle

8. Sylvia Plath described a figure painted by this non-Italian as coming out of "Eden's navel" in a poem describing another figure's "moony eye." This man put a row of red flowers along the bottom of a double portrait of Marie Laurencin and Guillaume Apollinaire called *The Muse Inspiring the Poet*. In another painting, he depicted his mistress Yadwiga with lotus flowers and a dark camouflaged man in the shadows. This painter placed a mandolin and vase on the sand under a clear night sky in a painting in which a lion "picks up [the] scent" of the title person but "does not devour her." He also painted a dark woman standing between a river and a forest while playing a flute. For 10 points, name this French Primitivist painter of *The Dream*, *The Snake Charmer*, and *The Sleeping Gypsy*.

ANSWER: Henri Julien Félix Rousseau

9. A composition with this title is the first piece of Karol Szymanowski's Op. 34, a set of three *Masques* for piano. Three poems by Tristan Klingsor formed the basis for a song cycle for soprano and orchestra of this title written by Maurice Ravel, who also wrote a "fairytale overture" of this name. In another composition of this name, a solo violin playing over harp arpeggios represents the title character, and a *pesante* unison theme represents her husband. That composition named for this character includes such movements as "The Young Prince and the Young Princess," "The Kalendar Prince," and "The Sea and Sinbad's Ship." For 10 points, name this woman who titles a suite by Nikolai Rimsky-Korsakov based on the *One Thousand and One Nights*.

ANSWER: Scheherezade

10. The speaker of a poem by this man bemoans the idea of "someone else drowned in that lash-wide stare" and blames his problems on "something to do with violence, / a long way back, and wrong rewards, / and arrogant eternity." The speaker of another poem by this man experiences a "sharp tender shock" upon seeing a stone earl's hand still clasping his wife's, as "such faithfulness in effigy / was just a detail friends would see." This author of "Love Again" and "An Arundel Tomb" described death as "nothing to think with / nothing to love or link with / the anesthetic from which none come round." For 10 points, name this 20th-century British poet of "Aubade," who acknowledged that "your mum and dad" "were fucked up in their turn" in "This Be the Verse."

ANSWER: Philip Larkin

11. In the Borel hierarchy, sets with this property correspond to the class denoted by a pi with superscript zero and subscript 1. The diagonal set, defined as a subset of the product space of X with itself, has this property if and only if X is Hausdorff. A sequence of real valued continuous functions defined on a finite bounded interval with this property has a uniformly convergent subsequence, according to the Arzela-Ascoli theorem. Cantor's intersection theorem begins by considering a decreasing sequence of nonempty, bounded sets with this property. A subspace is compact if and only if it is bounded and has this property according to the Heine-Borel theorem. The Cantor set has this property because it contains only boundary points. For 10 points, name this property of sets that have an open complement.

ANSWER: closure [or closed]

12. In one oration, this man argued that alleging "fanaticism" as a negative trait discredits brave historical figures such as Martin Luther and John Milton. This man was *honored* by the words "My countrymen! Know one another, and you will love one another," from a eulogy delivered by former "fire-eater" Lucius Lamar of Mississippi. This opponent of the Santo Domingo annexation scheme warned of "the black flag of the land pirates from Missouri" in a speech which likened Andrew Butler of South Carolina to Don Quixote and Stephen Douglas to Sancho Panza, and which denounced "the harlot, Slavery." For 10 points, name this Radical Republican, a Massachusetts senator whose speech "The Crime Against Kansas" prompted Preston Brooks to beat him with a cane.

ANSWER: Charles Sumner

13. One common application of the Thorpe-Ingold effect is in the acceleration of these reactions by the addition of a geminal-dimethyl group to the reactant molecule. Concerted examples of these reactions that also have negative entropies of activation can have conrotatory or disrotatory transition states. A radical-rearrangement of an enediyne is one type of this reaction named for Bergmann. All *exo-tet* and *exo-trig* varieties of these reactions are favored, according to Baldwin's rules. When intramolecular, these reactions are fastest when reacting groups are five carbons away. One example of this type of reaction is a condensation named for Dieckmann which forms beta-ketoesters. For 10 points, name these reactions that form rings from carbon chains.

ANSWER: cyclizations [accept ring-forming reaction before mention; accept Bergmann cyclization; anti-prompt on "lactonization", "electrocyclization", "cycloaddition", or "pericyclic reaction"]

14. Chapter 5 of Erich Auerbach's *Mimesis* analyzes a council at which this man asks to be handed a bow, and compares him to Saint Alexis. In one work in which he appears, this character unsuccessfully tries to break his sword against some rocks. After learning of his death, this character's betrothed Aude falls dead at the feet of her king. In another poem, he realizes that his beloved has left him for Medoro and is then struck with a "horrendous madness." This character is betrayed by his stepfather Ganelon, and his death results from his initial refusal to blow a horn in order to alert the retreating Frankish army. For 10 points, name this wielder of the sword Durendal who appears in a Renaissance epic poem by Ludovico Ariosto and an eleventh-century French epic called his "song."

ANSWER: Roland [or Orlando]

15. An aria in this opera strikes its lowest note, a C-natural, on the first syllable of the heavily accented phrase "l'ombre mostrarsi." Another aria in this opera is usually transposed down a whole step from F to E-flat, and was written explicitly for Fanny Tacchinardi Persiani. In this opera, the protagonist sings the aria "Regnava nel silenzio," in which she informs her maid Alisa that she has seen the ghost of a girl killed by her ancestor. The title woman of this opera sings "Il dolce suono" in a famous "mad scene" in which she fantasizes about her beloved Edgardo after murdering her husband Arturo. For 10 points, name this opera which was adapted from a Walter Scott novel, by Gaetano Donizetti.

ANSWER: Lucia di Lammermoor

16. Two books about exploring this ruler's domain were written by Russian Red Cross volunteer Alexander Bulatovich as the also-Russian officer Nikolay Leontiev was giving this ruler military advice and artillery supplies. This man's queen Taitu became effective regent after a series of strokes paralyzed him. This ruler came to power after Yohannes IV died at the battle of Gallabat. This man ruled during a conflict sparked by a mistranslation found in Article 17 of the Treaty of Wuchale, which he signed, and he took his regnal name from a fabled son of the Queen of Sheba and King Solomon. This king's forces defeated Oreste Baratieri at Adowa. For 10 points, name this man who repelled an Italian invasion and founded Addis Ababa as emperor of Ethiopia at the turn of the 20<sup>th</sup> century.

ANSWER: Menelik II [or Sahle Maryam]

17. This psychologist extended the capacity model of attention to allow for a flexible capacity, which can be divided to an extent determined by effort. This living man showed that individuals underestimate the amount of time they need to do any task, which is the "planning fallacy." This author of *Attention and Effort* wrote that people are more likely to identify Linda as a "bank teller and feminist" than just a "bank teller." This man formulated the concept of "anchoring," and he identified availability and representativeness as examples of heuristics that lead to biases. This Nobel laureate proposed that utility be modeled as a function of change in wealth instead of absolute wealth, which helps explain why people avoid risk. For 10 points, name this co-developer of prospect theory with Amos Tversky.

ANSWER: Daniel Kahneman

18. This figure eats all but one of Fish's eggs, but escapes blame by continually wiping a mark off of the remaining egg as it is counted. This character claims that he had to bury his father in his head, which proves that he is older than the rabbit or the porcupine, and he is able to turn an ear of corn into a following of one hundred soldiers. He pretended to measure the length of a branch against the length of a snake, allowing him to capture that python. While climbing a tree, he dropped a pot full of wisdom, allowing wisdom to spread across the world. He traded the python Onini, the hornets Mmoboro, and the leopard Osebo in exchange for all of the world's stories from his sky god father Nyame. For 10 points, name this wily character from West African folklore who is depicted as a spider.

ANSWER: Anansi [or Kwaku Ananse]

19. A pope with this name led an Italian league that fought off Saracen pirates at the Battle of Ostia, and ordered the construction of a wall around a namesake "City" that included the Borgo and the Vatican. Another pope of this name tried to organize a crusade against Selim I, but was better known for his high spending and ownership of a white elephant named Hanno. The most recent pope with this name issued an encyclical calling for capitalism to address the concerns of the working class, titled *Rerum Novarum*. The successor of Julius II had this name, and his construction of St. Peter's Basilica led to the sale of indulgences, criticism of which led him to issue the papal bull *Exsurge Domine*. For 10 points, name this papal name whose tenth holder was an opponent of Martin Luther.

ANSWER: Leo [or Leo IV; or Leo XIII; or Leo X]

20. One of these events was partly caused by Alexander Rigby's diversion of resources to his siege of Lathom House and took place at Bolton during the English Civil War. Another of these events occurred under the pretense that the MacDonald clan was too slow in pledging allegiance to William and Mary, but was motivated by its rivalry with the Campbells. The sister of Sweyn Forkbeard may have died during one of these events that was motivated by tributes and Danish raids against the English. In addition to ones named for Glencoe and St. Brice's Day, an event of this type occurred after a speech by Henry Hunt at a Manchester gathering in protest of poor economic conditions caused by the Corn Laws. For 10 points, name these violent events that include one called Peterloo.

ANSWER: massacres of civilians [accept stormings of cities before "MacDonald"; accept any answer indicating that many civilians are being killed in a short period of time]

TB. The proteins CDC42 and Rac1 stimulate the formation of structures composed of this protein. Staining of structures containing this protein is typically done with phalloidin derivatives. Lengthening of structures made of this protein is promoted by formin, while its branching is caused by the Arp2/3 complex. This protein's "barbed end," where polymerization typically occurs, can bind to the protein CapZ, which prevents assembly. This protein's binding sites are blocked by tropomyosin bound to the troponin complex within the sarcomere. For 10 points name this protein which is bound to by myosin during muscle contraction, and which makes up the microfilaments of the cytoskeleton.

ANSWER: actin

## Bonuses

1. This author fictionalized the life of Buddy Bolden, an early jazz pioneer who gradually went insane, in his novel *Coming Through Slaughter*. For 10 points each:

[10] Name this Canadian author who wrote about a skeleton found by the title Sri Lankan in *Anil's Ghost*.

ANSWER: Philip Michael Ondaatje

[10] Ondaatje won the Booker Prize for this 1992 novel, in which the nurse Hana treats a man with severe burns during World War II.

ANSWER: *The English Patient*

[10] In *The English Patient*, this character is a thief whose thumbs were cut off on the orders of Ranuccio Tommasoni; Tommasoni shares his name with a man murdered by this character's real world namesake.

ANSWER: David Caravaggio [or David Caravaggio]

2. Answer the following about Leon Lederman, an American physicist who won the Wolf Prize, for 10 points each.

[10] Lederman, together with Melvin Schwartz and Jack Steinberger, won the Nobel Prize in 1988 for the discovery of the muon variety of these particles. These nearly massless leptons are named for their lack of electric charge.

ANSWER: neutrinos

[10] From 1978 to 1989, Lederman was director of this research facility and home of the Tevatron, the second highest-energy accelerator after the LHC. Bison roam the grounds of this Batavia, Illinois site.

ANSWER: Fermilab [or Fermi National Accelerator Laboratory]

[10] In 1977, Lederman discovered a meson composed of the bottom quark and its antiparticle, with a mass of 9.46 GeV. A year earlier, he had mistakenly believed he'd discovered a 6.0 GeV particle. Name either.

ANSWER: Upsilon OR Oops-Leon

3. Identify these technical terms from film production, for 10 points each.

[10] This term denotes the editing and compilation of discrete shots into a sequence, and was first made central to film theory by Sergei Eisenstein. In colloquial usage, people often use it to refer to things like the training sequences in the *Rocky* movies.

ANSWER: montage

[10] This kind of lens produces an increased sense of depth while distorting the image towards the edges of the frame. A fisheye lens is an extremely distorting and seldom-used type of them.

ANSWER: wide-angle lens

[10] This adjective describes any elements on the soundtrack that do not arise from the objective, real world of the film. Common examples include the film score and voiceover narration.

ANSWER: non-diegetic sound [accept answers such as "it isn't diegetic" or "not diegetic"]

4. A symmetric form of this functionality is present in a key intermediate in the interconversion of glucose-6-phosphate and fructose-6-phosphate by phosphoglucose isomerase. For 10 points each:

[10] Name this functionality consisting of a carbon-carbon double bond with a hydroxyl group bound to one of the carbons in the double bond.

ANSWER: enols [or enolates]

[10] Enols often tautomerize into ketones, but they can also undergo hydrogenation to form these compounds, in which one hydroxyl functional group is bound to a saturated carbon atom. Ethanol is one of these compounds.

ANSWER: alcohols

[10] This reaction forms ketones from primary or secondary nitroalkanes by their deprotonation and subsequent hydrolysis. Nitrous oxide is also formed.

ANSWER: Nef reaction

5. In accounts retold by Joseph von Hammer-Purgstall, this group had a stronghold known as Alamut overlooking the Caspian Sea, where trainees were drugged with opium and promised an earthly paradise. For 10 points each:

[10] Name this Ismaili Muslim group which pulled off targeted killings across the 12<sup>th</sup>-century Middle East.

ANSWER: Assassins [or Hashshashin; prompt on "Fedayeen"]

[10] This founder of the Ilkhanate destroyed the Assassins' fortress at Alamut. He legendarily made the Tigris run black with ink sacking Baghdad.

ANSWER: Hulagu Khan

[10] This ethnically Persian vizier, who helped the Seljuk Turks rise to power and wrote a book on kingship called the *Siyasatnama*, was literally assassinated by the literal Assassins.

ANSWER: Nizam al-Mulk [or Abu Ali Hasan ibn Ali ibn Ishaq al-Tusi]

6. Answer the following about Proclus, perhaps the pre-eminent philosopher of the 5<sup>th</sup> century CE, for 10 points each.

[10] Like earlier Neoplatonists, Proclus believed that this entity was the ultimate principle of reality, and put other things like *nous* and *logos* in a hierarchy of "emanations" from it. It's roughly the same as Plato's Form of the Good.

ANSWER: The One [or To Hen]

[10] Proclus's commentary on this Plato dialogue expounds at length on its images of the "World Soul" and a creator called the "Demiurge." Its account of the lost city Atlantis is continued in the *Critias*.

ANSWER: Timaeus

[10] Many of Proclus's views inspired this pre-eminent philosopher of the 6<sup>th</sup> century CE. He depicted himself in a jail cell in the alternating poetry and prose of his *The Consolation of Philosophy*.

ANSWER: Boethius [or Anicius Manlius Severinus Boethius]

7. While the angry Tereus was chasing Procne and Philomela, all of them underwent this process, which Circe caused Picus to undergo after he scorned her. For 10 points each:

[10] Name this transformation that Thetis performed on Aesacus to save his life after he jumped off a cliff in grief.

ANSWER: transforming into a bird [or transforming into a hoopoe; or transforming into a nightingale; or transforming into a swallow; or transforming into a diving bird; or transforming into a duck; do not accept answers indicating a specific bird other than the above]

[10] Aeasus was depressed because his love Hesperia died in this manner as he chased her. According to Virgil and Ovid, this is the manner in which Eurydice [yoo-RID-uh-see] died.

ANSWER: snakebite [or snake venom]

[10] Eurydice was the wife of this musician, who descended into the underworld to try to retrieve her. As an Argonaut, he uses his music to drown out the sirens.

ANSWER: Orpheus

8. The 1974 Instrument of Government limited this man's powers to a Cabinet position and the nominally highest rank in the armed forces, and converted the rule of succession to one of absolute primogeniture. For 10 points each:

[10] Name this member of the House of Bernadotte whose eldest child is Princess Victoria. He came under the spotlight last year to give an award to May-Britt and Edvard Moser.

ANSWER: Carl XVI Gustaf of Sweden [or Carl Gustaf Folke Hubertus; or Charles XVI; do not accept "Carl Gustaf XVI"]

[10] This Swedish prime minister's stance against authoritarianism and imperialism led him to criticize apartheid. Carl XVI Gustaf mourned this man after a mysterious assassin killed him in 1986.

ANSWER: Olof Palme [or Sven Olof Joachim Palme]

[10] Carl XVI Gustaf oversaw Sweden's entry into this international community in 1995. This organization grew out of the EEC and settled on a common currency in the Treaty of Maastricht.

ANSWER: European Union [or EU]

9. Igor Stravinsky's career was full of unsuccessful and sometimes scandalous premieres. For 10 points each:  
[10] After this piece's failed 1917 premiere, Sergei Diaghilev turned it into a ballet. Stravinsky adapted this symphonic poem, set in China, from his similarly named first opera, based on a Hans Christian Andersen story.

ANSWER: *Le chant du rossignol* [or *The Song of the Nightingale*]

[10] Stravinsky met with jeers at the premiere of *Threni*, which was written in this style. This atonal style was pioneered by Arnold Schoenberg with his twelve-tone technique.

ANSWER: serialism [or serialist; accept word forms]

[10] This 1913 Stravinsky ballet had perhaps the most notorious premiere in music history. Its two parts, "The Adoration of the Earth" and "The Sacrifice," depict a pagan ritual.

ANSWER: *The Rite of Spring* [or *Le Sacre du printemps*]

10. Answer the following about common law, for 10 points each.

[10] The common law doctrine of "coverture" applied to this relationship, making one party unable to own property. Historically, ending this relationship required showing of cause until the advent of "no-fault" legal processes.

ANSWER: marriage

[10] The strongest obligation in many common law systems is this type of duty, in which the namesake person or company must prefer the interest of another party. Revlon was found to have violated it by accepting a white knight bid during a hostile takeover.

ANSWER: fiduciary duty

[10] The common law doctrine of *volenti non fit injuria* applies in this area of civil law, preventing action when the plaintiff willingly accepted the possibility of harm. This area deals with wrongs like libel, slander, and trespass.

ANSWER: tort law

11. In *The Devil's Dictionary*, Ambrose Bierce calls these things "the one infallible sign of civilization and enlightenment." For 10 points each:

[10] Name these additions to culinary dishes. French cuisine traditionally has five "mother" ones, including the Velouté, Espagnole, and Béchamel varieties.

ANSWER: sauces

[10] The set of five French "mother sauces" was laid down in the 1903 book *Le Guide Culinaire*, a still popular culinary text by this legendary French chef.

ANSWER: Georges Auguste Escoffier

[10] This French mother sauce is an emulsion of egg yolk and butter that is seasoned with lemon juice. It is used to make the derivative sauce Béarnaise, and it is used in Eggs Benedict.

ANSWER: Hollandaise sauce [or *sauce Hollandaise*]

12. Two students have sex all night with the wife and daughter of a character in this profession in "The Reeve's Tale," which mocks this profession. For 10 points each:

[10] Name this occupation. A character with this profession tells the tale in which a cuckolded husband is convinced that a second great flood is imminent.

ANSWER: The Miller

[10] In "The Reeve's Tale," John is able to bed the miller's wife after moving this object. The location of this object dictates which bed the wife returns to after using the bathroom.

ANSWER: cradle

[10] "The Miller's Tale" and "The Reeve's Tale" appear in this Middle English author's *The Canterbury Tales*.

ANSWER: Geoffrey Chaucer



13. Peggy Noonan coined this phrase for a nominating convention speech which also noted that "Government is part of the nation of communities - not the whole, just a part." For 10 points each:

[10] Name this phrase used to approvingly describe a large collection of organizations, "all of them varied, voluntary, and unique," that work to improve America.

ANSWER: "a **thousand points of light**"

[10] Before using that phrase, George H. W. Bush directed this organization under President Gerald Ford. It employed Kermit Roosevelt Jr.

ANSWER: **CIA** [or **Central Intelligence Agency**]

[10] In a biography of Bob Woodward and Carl Bernstein, Adrian Havill speculated that this codename was used by George H. W. Bush during the Watergate scandal. In reality, its user was Mark Felt.

ANSWER: "**Deep Throat**"

14. Answer the following about types of Hindu spiritual discipline which were known as *yoga* long before any Westerners were doing poses for exercise, for 10 points each.

[10] A type of yoga by this name involves engaging in altruistic action while renouncing the fruit of one's deeds. This Sanskrit term also names the principle that past good or bad deeds determine one's future.

ANSWER: **karma** yoga

[10] This type of yoga involves expressions of loving devotion to a single specific deity. Ramanuja and the twelve Alvars spread this type of yoga from South Asia.

ANSWER: **bhakti** yoga

[10] This most populous sect of Hinduism, which primarily venerates the Preserver god of the *Trimurti* and his ten avatars, includes many bhakti devotees.

ANSWER: **Vaishnava** Hinduism [or **Vaishnavite** Hinduism; or **Vaishnavism**; or **Vaisnava**; prompt on "Vishnu worship" or other descriptive answers]

15. In this story, an American discusses an unnamed procedure "to let the air in" with his companion Jig while drinking Anis del Toro at a train station in Spain. For 10 points each:

[10] Name this short story in which the American attempts to convince Jig to have an abortion.

ANSWER: "**Hills Like White Elephants**"

[10] This author of "Hills Like White Elephants" created the recurring character Nick Adams, who witnesses a Caesarean section in this author's short story "Indian Camp."

ANSWER: Ernest Miller **Hemingway**

[10] "Indian Camp" appears in this Hemingway collection of short stories interspersed with vignettes.

ANSWER: **In Our Time**

16. Gregory of Tours and Fredegar were both chroniclers of this dynasty's history, which began when Chlodio brought his Salian Franks south of the Somme. For 10 points each:

[10] Name this dynasty whose Salic Law was issued by Clovis I after it defeated Syagrius, the last Roman official in Gaul, at Soissons. Under Clovis, this dynasty eventually came to rule over most of modern France.

ANSWER: **Merovingian** dynasty

[10] Clovis allied with Anastasius I in a war against this group, who he defeated at the Battle of Vouillé. Under their first king, Alaric, this group sacked Rome in 410 after they split from the Ostrogoths.

ANSWER: **Visigoths**

[10] This historiographic term describes the last Merovingian kings beginning with Sigebert III. It reflects the shift in power to the Mayors of the Palace, especially after Pepin of Herstal won at the Battle of Tertry.

ANSWER: **do-nothing kings** [or **roi fainéant**; or **lazy kings**]

17. Cystic fibrosis leads to abnormally heavy accumulation of this substance in the airways. For 10 points each:

[10] Name this substance secreted in the nose and throat. Its subtypes include phlegm.

ANSWER: mucus

[10] Mucus is secreted by these cells of the mucous membranes, which are named for their unusual shape. They have basally positioned nuclei and are full of vesicles containing mucins.

ANSWER: goblet cells

[10] Goblet cells are found in this type of epithelium, in either its "simple" or "pseudostratified" varieties.

ANSWER: columnar epithelium

18. This author and philosopher fell deeply in love with his fiancée Sophie von Kühn when she was twelve years old. For 10 points each:

[10] Name this author who was inspired by von Kühn's death to pen his poetic cycle *Hymns to the Night*.

ANSWER: Novalis [or Georg Philipp Friedrich Freiherr von Hardenberg]

[10] Novalis wrote in this language in which "Ode to Joy" was written by Friedrich Schiller.

ANSWER: German [or Deutsch]

[10] In Novalis' incomplete novel *Heinrich von Ofterdingen*, the title character dreams of one of these objects, which became a symbol of German Romanticism.

ANSWER: blue flower [or blaue Blume; prompt on partial answer]

19. As with the soaring nymphs in his *The Oreads*, William-Adolphe Bouguereau's treatment of this subject shows a long procession of cupids flying up into the sky, along with mermaids and sea nymphs. For 10 points each:

[10] Name this mythological scene in which a nude goddess stands on a scallop shell. Botticelli's Renaissance version shows Zephyrus blowing toward the shore.

ANSWER: the birth of Venus [do not accept answers with "Aphrodite" instead of "Venus"]

[10] Bouguereau often painted these people, including a *Young* one in the meadow with a leafy twig in her hand. William Holman Hunt showed one presenting his love interest with a death's-head moth.

ANSWER: shepherds or shepherdesses [or *The Young Shepherdess*; or *The Hireling Shepherd*]

[10] This building appears in the background of Bouguereau's *The Bohemian*. Jacques-Louis David's *The Coronation of Napoleon* takes place inside this building.

ANSWER: Notre-Dame de Paris

20. This is the shape that the surface of oceans would take under the influences of rotation and gravitation alone. For 10 points each:

[10] Name this equipotential surface, first described by Gauss.

ANSWER: geoid

[10] This is the geophysical principle of the buoyant equilibrium of the Earth's crust, which explains why Greenland and the Great Lakes region are currently rising.

ANSWER: isostasy [or isostatic rebound; accept word forms]

[10] Both aforementioned cases of isostatic rebound can be attributed to the recession of these heavy structures from the relevant crustal areas. These structures are responsible for moraine deposits and U-shaped valleys.

ANSWER: glaciers [or ice sheets]

21. Answer the following about places where castle-like buildings were built far away from Europe during the Middle Ages, for 10 points each.

[10] This site in southern Africa near Masvingo, probably built by ancestors of the Shona people, included a walled Great Enclosure. Robert Mugabe's flag depicts a sculpted soapstone bird found at this site.

ANSWER: **Great Zimbabwe** [do not accept or prompt on "Zimbabwe"]

[10] This man, the second of Japan's three great unifiers, built a castle at Osaka where Tokugawa Ieyasu later besieged this man's son Hideyori.

ANSWER: **Toyotomi** Hideyoshi [prompt on "Hideyoshi" as some sources identify him by that name alone]

[10] The sunken medieval fortress of Nan Madol, built on coral near Pohnpei in this island group, may have inspired H.P. Lovecraft's R'lyeh. On its isle of Yap medieval people may have rolled huge stone disks called *rai* for currency.

ANSWER: **Micronesia** [or Federated States of **Micronesia**]