VCU Closed

February 2, 2013

Packet by Maryland A (Arun Chonai, Chris Manners, Brian McPeak, Chris Ray) and Ohio State A (Max Bucher, Nandan Gokhale, Jarret Greene, Jasper Lee)

1. Members of this tribe included Emperor Brim, who declared their neutrality in the foreign colonial rivalry. They were led by chiefs called micos and had medicine men known as yaholas. One of their more prominent chiefs was put on trial with David Brydie Mitchell for discussing smuggling African slaves from Spanish Florida, and was called White Warrior or William (*) McIntosh. Branches of these people include the Poarch Band and the Coushatta. Mary Musgrove's negotiations with this tribe allowed the establishment of a fur trade at Savannah. They were one of the Five Civilized Tribes and are a close kin to Seminoles. For 10 points, name these Native American people whose Red Sticks faction fought a namesake war that ended at the Battle of Horseshoe Bend.

ANSWER: Creeks [or Muscogee people]

2. One poem by this man describes the rising of the "lord-star Jupiter" and the motion of the "delicate sisters the Pleiades" as the speaker exhorts one figure, "weep not, child." Another poem by this man contrasts a form that "attracts with fierce undeniable attraction" to one that "is action and power", and begs the reader to (*) "Swim with the swimmers, wrestle with wrestlers, march in line with the firemen." This poet of "On the Beach at Night" wrote about a man whose "lips are pale and still" and has "fallen cold and dead" in a poem about the assassination of Abraham Lincoln. For 10 points, name this poet, who wrote "Crossing Brooklyn Ferry", "O Captain! My Captain!" and the collection *Leaves of Grass*.

ANSWER: Walt Whitman

3. One member of this art movement painted two stacked red circles on a pink background in his work *Snowman*. Another member of this movement had a work where ten blue-overalled workers and large grinding machines destroyed every one of his possessions in a pseudo-assembly line process. In addition to Gary Hume and Michael Landy, this art movement had an artist with a work that contained close-ups of female genitalia collaged with (*) elephant dung in his *The Holy Virgin Mary*, which famously offended Rudy Guiliani. Another work from this movement was jumped on by the performance artists Yuan Chai and Jian Jun X and contained bloody underwear and used condoms. For 10 points, name this art movement whose notable works include Tracy Emin's *My Bed* and Damien Hirst's *The Physical Impossibility of Death in the Mind of Someone Living*.

ANSWER: <u>Young British Artists</u> [or <u>YBA</u>; prompt on <u>Britart</u>; prompt on <u>Brit artists</u>; prompt on <u>Young Brits</u>]

4. The length of this structure is affected by Kar3p and Cin8p mutations, and this structure forms via a bi-orientation mechanism. The formation of this structure requires Survivin activation of the Aurora A kinase. CENP-E- Bub1, and Mad2 are among the proteins involved in this structure's namesake assembly checkpoint. This structure, whose formation is inhibited by vinca alkaloids, requires the protein NuMA to form, which is why its formation is coupled to the degradation of the (*) nuclear membrane. One side of this structures' fibers attaches to kinetochores, while the other side attaches to gamma-ring complexes on the centrosome. For 10 points, name this structure which contains an array of microtubules, which are responsible for moving chromosomes apart during mitosis ANSWER: mitotic spindle [or spindle apparatus; accept microtubules before mention]

5. In one chapter of this work, the word "particle" is used to refer to transitional words, such as "but." The author also explains that uneasiness leads to desire, which leads to the will to carry out that desire. In its fourth section, the author argues that judgment arises from probability, which is defined as the likeliness that something is true based on the amount of agreement or disagreement. In this work's third section, the author argues that words are used to communicate ideas, which is the only way (*) thoughts can be exchanged between people. These ideas are classified as either coming from sensation or reflection. This work argues against the existence of innate ideas, which gave rise to the author's idea of the tabula rasa, or blank slate. For 10 points, name this essay by John Locke.

ANSWER: An Essay Concerning Human Understanding

6. In a post-game press conference, one athlete who committed this action reflected "I suppose I'll pay a stiff penalty for my boner." That incident saw teammate Benny Lom's failed attempt to thwart this action. This action gave Georgia Tech the victory over Cal in the 1929 Rose Bowl. The best-known performer of this action later forced a fumble recovered by Carl Eller to mitigate the damage caused by doing this. The 2012 college football season began with Towson players strangely disrupting a Kent State player who was performing this action after a botched punt. (*) Vikings defensive end Jim Marshall earned his team a safety by spiking the ball after completing this action, which required him to elude several pleading teammates. For 10 points, identify this egregious error in which a football player advances the ball in an imprudent direction.

ANSWER: running the wrong way in football [accept any reasonable equivalents, including "running the wrong way with a fumble;" prompt on anything related to "recovering a fumble" or causing a safety to be inflicted on your own team]

7. One novel by an author from this country features a poem about the death of Trotsky entitled "Elegy for Jacques Mornard (Under the Skies of Lecumberri)" that is written by Bustrofedon to satirize the style of this country's national poet. That work by an author from this country also features a page that repeats the word "blen" and that work begins with an emcee shouting (*) "Showtime!" Another author from this country wrote a novel in which the mulatto doctor Oge turns on his former friend, the liberal businessman Victor Hughes, who brings Esteban to revolutionary Paris before leading a revolution in Cayenne; that author of Explosion in a Cathedral also wrote a novel set during the Haitian Revolution that was narrated by Ti Noel. For 10 points, name this Caribbean nation home to the author of Three Trapped Tigers, Guillerno Cabrera Infante, as well as the author of The Kingdom of This World, Alejo Carpentier.

ANSWER: Cuba

8. One character in this opera tells Flavio of a dream in which his lover suddenly disappears after they exchange marriage vows. That character later attempts to convince his lover to go to Rome with him in "Va, crudele, al Dio spietato." Oroveso is given the care of the title character's sons at the end of this opera. When Clotilde reports that a man has been caught inside a (*) temple, the title character declares war on the Romans. The main character cuts the sacred mistletoe while praying to the moon goddess in "Sediziose voci...Casta diva." The title character of this opera becomes jealous when her former lover leaves her for Adalgisa. At the end of this opera, Pollione decides to be burned on a pyre along with the title druidess. For 10 points, name this opera, the masterpiece of Vincenzo Bellini. ANSWER: Norma

- 9. The first fundamental form of a surface is essentially an instance of it performed on two elements of the tangent space. The Bogoliubov type of this operation takes operators as arguments, and in a Minkowski space this operation is non-degenerate rather than positive definite. Over a complex Hilbert space, this object is necessarily a Hermitian form, and a Hilbert space is a complete abstract vector space for which this (*) operation is defined. If the result of this operation on two elements is zero, they are orthogonal, and setting both arguments of this operation equal gives the norm. A specific case of this operation is equal to a b cosine theta. For ten points, name this operation which maps two elements of a vector space to a scalar, an example of which is the dot product in Euclidean space.

 ANSWER: Inner product [accept norm until mention; prompt on "dot product" until mention]
- 10. The third ruler of this dynasty faced a rebellion from a man nicknamed "possessor of the donkey" who fomented unrest in the Aures Mountains, Abu Yazid. Towards the end of this dynasty's height, power was handed over from al-Mustansir to his grand vizier Badr al-Jamali; an earlier ruler of this dynasty nameed Al-Mu'iz captured Sicily. One famous ruler of this dynasty disappeared in the night and was known as the (*) "Mad Caliph" due to events such as his destruction of the Church of the Holy Sepulcher in Jerusalem, and that man is venerated by the Druze faith. Conquered by Saladin's uncle Shikruh on behalf of the Zengid Dynasty, this dynasty had for a time been a center of learning, exemplified by Al-Azhar University. For 10 points, name this Egyptian-based dynasty which claimed descent from the daughter of Muhammad.

ANSWER: **Fatimid** Dynasty

- 11. This chracter shares her name with the goddess of intoxication and may be one of her human manifestations. She killed Clothra while she was pregnant, but that led to her death as that son, Furbaide, survived and killed her by slinging a piece of cheese while she was bathing. An important event that she sparked began with an argument with Ailill over who was richer. She had a huge sexual appetite that only (*) Fergus Mac Roich could satisfy. Fergus also protects her with a shield while she lets out an impossibly voluminous amount of urine to create three dykes. For 10 points, name this Queen of Connaught who sparked the Cattle Raid of Cooley, which brought her at odds with Cuchulainn. ANSWER: Queen Maeve [accept Medb, accept Medba]
- 12. In one work by this man, a boy notes that his uncles must love each other, because "strangers would not want to hurt each other that badly" as they fight during a New Year's Eve party. That character's father claims to be the only person of his type to see Hendrix play the Star Spangled Banner at Woodstock in another story by this author. Robert Johnson sells his soul to The Gentleman in a novel by this author, in which the blues band Coyote Springs acquires the groupies Betty and Veronica and travels to New York from (*) Spokane. "Every Little Hurricane" appears in a short story collection by this author, which also includes the stories "The Only Traffic Signal on the Reservation Doesn't Flash Red Anymore" and "Jesus Christ's Half-Brother Is Alive and Well on the Spokane Indian Reservation." For 10 points, name this Native American author of *Reservation Blues* and "The Lone Ranger and Tonto Fistfight in Heaven."

ANSWER: Sherman Alexie

- 13. This composer was derided by critics as a "futurist" who created a "Babel of insane sounds" after the premiere of his second piano concerto, written in the memory of Maximilian Schmidt. One of his orchestral works uses a double bass solo to depict a "Romance," while another movement in that piece makes heavy use of pizzicato violins and sleigh bells. In addition to writing a famous (*) "Troika," this composer wrote a ballet that quotes the gavotte from his first symphony and features the "Dance of the Knights." In another orchestral work by him, the bassoon represents the grandfather and the strings represent the first title character. For 10 points, name this Russian composer of the Lieutenant Kije Suite, the ballet Romeo and Juliet, and Peter and the Wolf.

 ANSWER: Sergei Prokofiev
- 14. A 1947 case regarding this good concluded that tying arrangements between patented and non-patented products are *per se* violations of the Sherman Act. The Sobornoye Ulozheniye legal code was passed to reverse reforms forced by an uprising named for this good following Alexei I's 1648 tax on it. The Anglo-Saxon term "wich" was often appended to English cities that traded in this good, particularly those in Cheshire. A labyrinthine French (*) tax on this good, which citizens were often forced to buy weekly, was the much-hated *gabelle*. The Azalai caravan began to carry this good from a major center at Taghaza throughout West Africa, and is still maintained by the Taureg. For 10 points, identify this namesake of the Roman Via Salaria, a substance valuable in ancient times for its ability to preserve and flavor meat.

ANSWER: table salt

- 15. Ras Baraka blamed this man for inciting a fight during the vote to appoint someone to a seat left open by Donald Payne Jr. In this man's second campaign for the position he currently holds, he ousted Sharpe James, who was convicted for fraud two years later. That campaign, depicted in the film *Street Fight*, drew attention because this man had been living in the Brick Towers (*) public housing complex for the previous eight years. After saving a woman from a house fire in April 2012, he was subsequently criticized for massive tax increases and layoffs that have occurred under his leadership. During a May 2012 appearance on *Meet the Press*, he called the Obama campaign's attacks on Bain Capital "nauseating" and in December 2012, he spent a week on food stamps. For 10 points, name this man expected to run for New Jersey's Senate seat in 2014, the current mayor of Newark. ANSWER: Cory Anthony <u>Booker</u>
- 16. The f-sub-zero-1790 particle was recently detected in a usually suppressed decay mode of this particle, and most hadronic decays of this particle are suppressed because those modes have a Feynman diagram that can be split by cutting internal gluon lines; that is an application of the OZI rule. This particle was predicted as an excited state of another (*) particle whose existence was posited to suppress a Z-boson-mediated flavor decay via the GIM mechanism. It was originally discovered at the SPEAR accelerator at SLAC and at Brookhaven. This particle was discovered independently by Burton Richter and Samuel Ting as part of the November revolution, and this particle is the first excited state in a series For 10 points, name this particle that consists of a charm quark and its antiquark. ANSWER: J/psi meson

17. With Shapiro, this economist names an efficiency wage model that attempts to explain unemployment during equilibrium by assuming firms take on costs to determine worker effort. In Whither Socialism? this man proposed an alternative to the neoclassical model based off of his theorems with Greenwald on (*) information asymmetry. He argued that inequality fuels economic crises and uncertainty in his *The Price of Inequality*, and called the IMF a moral hazard, blaming it for slow growth in developing countries, in *Globalization and Its Discontents*. For 10 points, name this former chief economist at the World Bank, a Columbia professor and pioneer of information economics who is an outspoken critic of many free trade efforts.

ANSWER: Joseph Stiglitz

- 18. In one of this man's plays, ongoing discussions of the quality of Roger Casey's writing are interspersed in a reverse narrative showing the path taken by an affair between Emma and her husband's friend Jerry, while another of this man's plays ends with Bert Sands beating a black man named Riley as his wife repeats "I can't see." This man is the author of a play in which two characters argue over the true nature of the death of a (*) cat supposedly killed by an eight-year-old girl and receive food orders from the title structure as well as debate the phrases "light the kettle" and "put the kettle on" before it is revealed that Gus is to be killed by his partner Ben. For 10 points, name this author of Betrayal and The Dumb Waiter who wrote about Stanley in The Birthday Party.

 ANSWER: Harold Pinter
- 19. One leader of this group was convicted of libel for publishing Charles Haslam's Letters to the Clergy of All Denominations, which criticized parts of the Old Testament. In addition to Henry Hetherington, another leader of this group led a march on the Westgate Hotel which ended in the death of twenty-two members of this group; that man was John Frost. Members of this group participated in the Plug Riots, and some of its leaders called for a "Sacred Month" of (*) strikes. The Northern Star was a newspaper published by one of the more radical members of this group, Feargus O'Connor. This group was behind the Newport Rising, and they took their name from a document written by William Lovett calling for universal male suffrage. For 10 points, name this mid-nineteenth-century group of middle class agitators in Britain.

ANSWER: Chartists [or Chartist Movement, etc.]

20. In environmental chemistry, Multimedia Models of this quantity can be useful for calculations of equilibria in air, water, and soil. For non-ideal gases, the the derivative of the natural log of this quantity with respect to mole fraction of two components of a liquid is equal according to the Duhem-Margules equation. The total value for this quantity in a mixture is given as the sum of the values of each (*) constituent of the mixture by the Lewis-Randall rule. For a real gas, this quantity is defined as the pressure an ideal gas would have if it had the same chemical potential as the real gas, and for ideal gases it is equal to the pressure. For ten points, name this quantity that quantifies the tendency of a gas tendency to flee a certain phase.

ANSWER: **fugacity**

TIEBREAKER/EXTRA

21. For Lutherans, this act's process it outlined in the "Office of Keys" of the Small Catechism, and is sometimes accomplished through a vote from the congregation, while Quakers go about this act by having the subjects "read out of meeting." The Islamic version of this action is usually practiced through the courts, ends with a subject being labeled a kafir, and is known as takfir, and in Judaism this action is known as Cherem, although it is rarely practiced anymore. Drawing from a line in the Book of Matthew which declares that a sinner who (*) ignores the church should be treated as a "gentile and tax collector," this action is referred to as disfellowshipment by Jehovah's Witnesses and results in shunning in many Anabaptist communities. For 10 points, name this religious action which in Catholic and Orthodox churches often results in banning a worshipper from taking sacraments, the deprivement of membership in a religious community.

ANSWER: <u>excommunication</u> [prompt on disfellowshipment, takfir and shunning; accept things like "getting banned from the Church"]

22.This composer featured metal percussion and six double basses in the third part of his opus 19 *Genesis*, and he used text drawn from several psalms to create a work honoring the 900th anniversary of a certain saint's martyrdom in his *Beatus Vir*. He uses simple homophonic texture in his *Marian Songs* and his later choral work *Totus Tuus* which was composed for Pope (*) John Paul II. His most famous work has three movements including one where a mother searches for her son killed in the Silesian uprisings and one containing a message written on the wall of a Gestapo cell during World War II. For 10 points, name this Polish composer of the *Symphony of Sorrowful Songs*.

ANSWER: Henryk Gorecki

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- 1. One of this author's works is an adaptation of Shakespeare's *The Tempest* in which Prospero is a white slavemaster. For 10 points each:
- [10] Name this author who also penned a play about a king of Haiti, *The Tragedy of King Christophe*, and the essay *Discourse on Colonialism*.

ANSWER: Aimé Fernand David Césaire

[10] Césaire was a founder of this movement that criticized French colonialism in Africa and was analyzed by Sartre in the essay "Black Orpheus." It's other two founding fathers are future Senegalese president Leopold Senghor and French Guyanese author Leon Damas.

ANSWER: Negritude

[10] Another Martiniquan author, Frantz Fanon, drew upon influence from the Negritude authors to write this work, which attempts to explain the feelings of inadequacy and dependency that a Black subject feels living in a White world.

ANSWER: Black Skin, White Masks

2. Answer the following about a pillar of Islam, for 10 points each.

[10] This pillar's name means "that which purifies" and is the giving of alms.

ANSWER: zakat

[10] Zakat often acts as a sort of tax, as it is most often given to the government. Non-Muslims are not required to pay a zakat, but instead must pay this tax.

ANSWER: jizya

[10] The amount of one's income given to zakat varies, but usually hovers around 2.5 percent. Shiites, however, are also expected to pay one-fifth of their income under this practice, which originally applied only to spoils of war, or ghanim.

ANSWER: khums

- 3. According to the Anglo-Saxon Chronicle, this kingdom was founded by Cerdic and his son Cynric, who curiously have Celtic names, which has led to several theories regarding their ancestry. For 10 points each:
- [10] Name this member of the Heptarchy which signed a treaty with the Danish king Guthrum and became Christian with the baptism of Cynegils by the bishop of this place, Birinus.

ANSWER: Wessex

[10] The most notable ruler of Wessex was, of course, this man, who signed the aforementioned Treaty of Wedmore with Guthrum after defeating the Danish king at the Battle of Eddington. Other accomplishments by this man include translating the *Consolation of Philosophy* into Old English.

ANSWER: Alfred the Great

[10] To defend against Viking attacks, Alfred developed a system of earthen walls and ditches surrounded by palisades that were known by this name. Some historians consider these structures to be the forerunners of medieval towns, and they were also the center of coin production for a short time.

ANSWER: burhs

- 4. The protagonist of this novel falls in love with Aileen Butler, the son of an Irish industrialist, and leaves his wife Lillian to be with her. For 10 points each:
- [10] Name this novel about Frank Cowperwood, a stock manager who works closely with Stener to fool city authorities and make money.

ANSWER: The **Financier**

[10] The Financier was written by this author of Sister Carrie and An American Tragedy.

ANSWER: Theodore **Dreiser**

[10] The title character of this Dreiser novel is seduced by Senator Brander and later falls in love with Lester Kane. They separate after it is revealed that will not be a part of his father's will if they remain together.

ANSWER: Jennie Gerhardt

- 5. The namesake problem of these things is that the velocity at higher distances from the center are much higher than normal mechanics would predict. For ten points each:
- [10] Name this plot of the orbital velocities of bodies in a galaxy as a function of their distance from the center.

ANSWER: galactic rotation curves

[10] The most accepted explanation for the rotation curve problem is the existence of this difficult-to-detect type of matter, which is hypothesized to make up 84% of the matter in the universe.

ANSWER: Dark Matter

[10] Lumps of dark matter in the early universe were present in these regions of the primordial plasma, which have greater than normal concentration locally and served as seeds for structure formation.

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

- 6. This painter created a scene showing a young woman stealing a ring from a young man who is gazing affectionately at her, *The Fortune Teller*. For 10 points each:
- [10] Name this Italian artist, who showed Paul fallen off his horse in *Conversion on the Way to Damascus*. He used himself as the subject of several of his works, such as *Sick Bacchus*.

ANSWER: Michelangelo Merisi da Caravaggio

[10] Caravaggio was a pioneer of this technique, in which backgrounds are made intentionally dark to contrast with the brightness of the subjects.

ANSWER: chiaroscuro

[10] This French Baroque painter also used chiaroscuro in several paintings where the light source is a single candle. Those works include *The Penitent Magdalene*, *Magdalene with the Smoking Flame*, and *The Dream of St. Joseph*.

ANSWER: Georges de la Tour

- 7. The truly adventurous traveler will always make a detour while in this country to visit El Mercado de las Brujas, its infamous Witches' Market, which boasts a healthy stock of llama fetuses. For 10 points each:
- [10] Identify this South American country, once home to an infamous silver mine where the patio process mercury-poisoned millions of colonial slaves.

ANSWER: Bolivia

[10] The Witches' Market is staffed by many helpful *yatiri*, the ritual sorcerers of this Bolivian ethnic group. Its notable members include 18th-century rebel Tupac Katari and current Bolivian president Evo Morales.

ANSWER: Aymara

[10] The Witches' Market is located in the middle of this city, which serves as the seat of Bolivia's government even though the official national capital is Sucre.

ANSWER: La Paz

- 8. Answer the following about protein folding, for ten points each:
- [10] This is the name for the three dimensional shape of the protein, a step above the simple sequence or whether the protein locally conforms to an alpha helix or beta sheet.

ANSWER: **Tertiary** Structure

[10] Proteins that assist in the folding of proteins are these, so named because they keep the protein chain from perturbing outside influences so that it can fold.

ANSWER: Chaperones or Chaperonins

[10] A partial answer to Levinthal's paradox is this rule of thumb, states that the tertiary structure is determine by amino acid sequence as long as structure has a significantly lower Gibbs free energy than others.

ANSWER: Anfinsen's Dogma

- 9. This man designed the Great Hall of the Metropolitan Museum of Art in New York as well as houses named "Ochre Court" and "The Breakers." For 10 points each:
- [10] Name this architect of the Gilded Age, who designed several mansions in Newport, Rhode Island. ANSWER: Richard Morris **Hunt**
- [10] Another mansion Hunt designed was this one built for the Vanderbilts, located in Asheville, North Carolina.

ANSWER: The Biltmore

[10] Hunt also designed the pedestal to this iconic New York sculpture, which itself was designed by sculptor Frederic Auguste Bartholdi and engineered by Gustave Eiffel.

ANSWER: the **Statue of Liberty** [or **Liberty Enlightening the World**]

- 10. The Marquis of Pombal once wielded great power in this country, which was the home of the Tavora Conspiracy. For 10 points each:
- [10] Name this country which suffered through a series of civil wars called the Liberal Wars as well as a 1755 earthquake which destroyed much of its capital.

ANSWER: Portugal

[10] The first king of an independent Portugal was this man, who gained that title a few years after defeating his mother Theresa at the 1128 Battle of Sao Mamede, which led to Portugal's independence from Leon.

ANSWER: <u>Afonso Henriques</u> [or <u>Afonso I</u>; or <u>Alfonso the Great</u>; or <u>Alfonso the Conqueror</u>; or <u>Alfonso the Founder</u>; prompt on <u>Alfonso</u>]

[10] After the death of the last Burgundy king of Portugal, Ferdinand the Inconstant, John founded this new dynasty which lasted until the Sixty Years' Captivity under the Spanish, after which the House of Braganza came to power.

ANSWER: House of **Aviz**-Beja

- 11. Although this animal was able to grasp a limited vocabulary, it never exhibited grammar. For 10 points each:
- [10] Identify this whimsically named chimpanzee, who was the subject of a study by Columbia's Herbert Terrace on animal language acquisition.

ANSWER: Nim Chimpsky

[10] Project Nim sought to test the validity of Noam Chomsky's formulation of this linguistic approach. A key feature of this approach is the innateness of language to human brain structure, excluding other animals but providing a biological basis for the similarity of all languages.

ANSWER: transformational-generative grammar

[10] Terrace attempted to teach Nim this language. According to different accounts, Nim learned anywhere from 25 to 125 words in this non-oral language, which Koko the gorilla is also alleged to comprehend.

ANSWER: ASL [or American Sign Language; prompt on sign language, I guess]

- 12. Take a bucket, fill it with water, tie it to a cord, twist the cord, and let go. For ten points each:

 [10] This man proposed the bucket argument in his *Principle Mathematica*. The argument is that t
- [10] This man proposed the bucket argument in his *Principia Mathematica*. The argument is that the water's surface is concave even though the water is not moving relative to the bucket.

ANSWER: Isaac Newton

[10] This physicist refuted Newton's argument with the idea that the bucket's motion is not absolute, but relative to all the distant stars of the universe. This idea became known as his namesake principle.

ANSWER: Ernst Mach

[10] Mach's Principle is incompatible with General Relativity, but not with alternatives to GR like this one that describes the gravitational constant as a variable scalar field.

ANSWER: Jordan-Brans-Dicke theory

- 13. This battle saw Richard Ewell defend the Orange Turnpike against Gouverneur Warren. For 10 points:
- [10] Identify this first battle of Grant's Overland Campaign, named for some dense underbrush.

ANSWER: Battle of the Wilderness

[10] This succeeding battle saw almost 32,000 casualties on both sides and Union assaults on Mule Shoe and Laurel Hill.

ANSWER: Battle of **Spotsylvania Court House**

[10] This Union general was present at both battles and may be most famous for defeating Robert E. Lee at the Battle of Gettysburg.

ANSWER: George Meade

- 14. Tito Belcredi is attacked in this play by the protagonist, who believes him to be Peter Damian. For 10 points each:
- [10] Name this play, in which a man hits himself on the head after falling off of a horse during a pageant and believes himself to be the title Holy Roman Emperor.

ANSWER: Enrico IV [or Henry IV]

[10] Enrico IV is a play by this Italian playwright, who created the Absurdist play Six Characters in Search of An Author.

ANSWER: Luigi Pirandello

[10] This Italian playwright and judge found success with *Corruption in the Palace of Justice* and *The Fugitive*.

ANSWER: Ugo Betti

- 15. Name these people who appear in the Rush Hour series of movies, for 10 points each.
- [10] In the first movie, Lee and Carter attempt to track down the crime lord Juntao, played by this actor. He portrayed Friedrich Fromm in *Valkyrie* and played Benjamin Franklin in the HBO miniseries *John Adams*.

ANSWER: Tom Wilkinson

[10] This actor appears uncredited as Kenny in the second movie. He appeared alongside Adam Sandler in *Reign Over Me* and played porn star Buck Swope in *Boogie Nights*.

ANSWER: Don Cheadle

[10] Upon arriving in Paris in the third movie, Lee and Carter get cavity searches by a commissaire played by this Polish-French director. He directed *Rosemary's Baby* and *The Pianist* and became a noted child rapist after wife Sharon Tate was murdered by the Manson Family.

ANSWER: Roman Polanski

- 16. This book goes fourteen chapters before presenting "The First Civilizations." For 10 points each:
- [10] Name this forty-part overview of civilization, which presents an evolutionary perspective and a diminished role for Christianity, but overcame such controversy to sell two million copies after its 1919 publication.

ANSWER: The **Outline of History**

[10] This author of *Tono-Bungay* and *The Island of Dr. Moreau* wrote *The Outline of History*.

ANSWER: Herbert George Wells

[10] This Wells character dies in a fire after giving away two flowers. She refuses to enter the "Morlock wells,"

ANSWER: Weena

- 17. Some mythological figures had detachable body parts. For 10 points each:
- [10] This trickster god from Southwestern American mythos is usually depicted with a curved back and playing a flute. Some rock carvings depicting him with a large penis, which he could detach and impregnate women with.

ANSWER: Kokopelli

[10] Better yet, in Hawaiian myth, this sister of Pele helped her out when Kamapua'a tried to rape her. This goddess inexplicably detaches her vagina and hurls it, which distracts Kamapua'a enough that he starts following it instead.

ANSWER: Kapo

[10] Although the tale about him doesn't feature anything nearly as awesome as detachable genitals, this guy doesn't die after Sir Gawain decapitates him in their first battle, instead picking his head up, challenging Gawain to a further fight, and walking away.

ANSWER: the **Green Knight** [or Sir **Bercilak** de Hautdesert]

- 18. These equations take into account convection currents and contain diffusion numbers. For 10 points each:
- [10] Name this set of doubly-eponymous, difficult-to-solve equations that describe fluid mechanics.

ANSWER: **Navier-Stokes** equations

[10] The Navier-Stokes equations are formed from the combination of the fluid kinematics equation and this type of equation, which for a Newtonian fluid calculates fluid stress using the unity tensor and strain rate. They generally map the response of a particular material to an external stress.

ANSWER: constitutive relations

[10] One parameter in the Navier-Stokes equations is this quantity, symbolized rho. This quantity can be calculated as mass divided by volume.

ANSWER: density

- 19. This ruler currently resides in Zimbabwe, where he acts as an occasional advisor to fellow insane dictator Robert Mugabe. For 10 points each:
- [10] Name this former dictator, who came to power after murdering Tafari Benti and oversaw both a Red Terror aimed at the EPRP and a massive famine.

ANSWER: Mengitsu Haile Mariam

[10] The Ethiopian famine was caused in part by the land reforms of this communist military junta which Mengitsu led from 1977 to 1987.

ANSWER: the **Derg**

[10] Both before and during the reign of the Derg, Ethiopia fought to keep this nation to its north under its control. A former Italian colony, it finally gained its independence in 1991.

ANSWER: Eritrea

- 20. This work, like *Central Park in the Dark*, sets melodies against a background chorale of strings. For 10 points each:
- [10] Name this composition, whose main theme is introduced by the trumpet and responded to by a flute quartet.

ANSWER: The **Unanswered Question**

[10] The *Unanswered Question* is a work of this American composer, whose works include the *Concord Sonata* and Symphony No. 3, "The Camp Meeting."

ANSWER: Charles Ives

[10] This other composer based his *New England Triptych* off of hymns by William Billings. He transcribed lves' piece *Variations on "America"* from organ to band and wrote a two-movement violin concerto. His *Mail Order Madrigals* sets text from the 1897 Sears catalog as choral pieces.

ANSWER: William Schuman

- 21. The first novel in this series centers on Daniel Quinn, who interacts with both the literal author of this series, as well as an unnamed "author." For 10 points each:
- [10] Name this detective series made up of City of Glass, as well as Ghosts and a novel about a man who replaces his friend Fanshawe in his family and steals his creative work after he dies, The Locked Room.

ANSWER: The New York Trilogy

[10] The New York Trilogy was written by this author, who also authored the novels *The Brooklyn Follies* and *Moon Palace*.

ANSWER: Paul Auster

[10] Auster is often labeled as a Postmodern writer, much like this other American author of Inherent Vice who wrote about Tyrone Slothrop in Gravity's Rainbow.

ANSWER: Thomas **Pynchon**