

2013 ACF Regionals: Transmitido en Quizbowllese ("This man while traveling through the woods found bathing in a stream the naked goddess Artemis")

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Packet by Rice A and Columbia A

Note to Moderator: Random things in this packet have become possessed by an invincible capslock demon; this is not a sign that you should read them loudly or anything, just ignore it).

-Eds.

1. Late in his career this man – who was notably not born a citizen – cooperated with the satrap Pharnabazus to arrange the assassination of one former enemy. This man was extensively and somewhat shadily financed by a ruler he would later support in revolt against Artaxerxes II that culminated in the Battle of Cunaxa. This beneficiary of Cyrus the Younger's patronage resumed his most famous office after his replacement Callicratidas lost the battle of Arginusae. He then defeated Alcibiades at the Battle of Notium prior to his most famous victory, which led to taking of the Piraeus, the destruction of the Long Walls, and the installation of the Thirty Tyrants. For 10 points, identify this general who took Athens after winning the naval battle of Aegospotami, winning the Peloponesian War for Sparta.

ANSWER: Lysander

2. In a March 2012 paper, Shu-Li You and coworkers used a chiral N-triflyl phosphoramidate catalyst with this reaction to enantioselectively synthesize fluorene (with an e) derivatives. A book on the chemistry of this reaction was written by George Olah. This name reaction is part of a class of reactions that creates a Wheland intermediate. Due to its slow rate, it almost always fails when one of its reactants has a strong electron-withdrawing group, like a sulfonyl or nitro group. One modification of this reaction formylates an arene by passing a mixture of carbon monoxide and hydrochloric acid gases over it, is used to produce benzaldehydes, and is the Gatterman-Koch reaction. This electrophilic aromatic substitution adds moieties to aromatic rings using a Lewis acid catalyst like aluminum chloride. For 10 points, identify this doubly-eponymous reaction that includes an acylation and alkylation.

ANSWER: Friedel-Crafts reaction [or Friedel-Crafts acylation before "acylation" is read; or Friedel-Crafts alkylation before "alkylation" is read]

3. One non-peptide agonist of this hormone is Wyeth's WAY 267,464. This hormone belongs to a class that has a disulfide bridge between cysteine residues 1 and 6. This hormone stimulates the release of PGF2 alpha. It is found with the carrier protein neurophysin I in Herring bodies. This hormone is released in the Ferguson reflex. It differs from a structurally similar one in having isoleucine at its third position. This was the first peptide hormone to have its structure elucidated and synthesized. It is released from the posterior pituitary, as is that aforementioned similar one, vasopressin. For 10 points, name this nonapeptide hormone responsible for uterine contractions and lactation that is nicknamed the "love hormone."

ANSWER: oxytocin

4. In one poem, this author wrote that the title figure is "not a person" but is "a feeling, a man seen / As if the eye was an emotion". In another poem, he asks "Shall our blood fail? Or shall it come to be / The blood of paradise? And shall the earth / Seem all of paradise that we shall know?". This author of "Examination of the Hero in a Time of War" wrote that he did not know whether to prefer "the beauty of inflections" or "the beauty of innuendoes" in another poem. One poem by him claims that "Death is the mother of beauty" and describes "Coffee and oranges in a sunny chair," while another says that when the title avian "flew out of sight, / It marked the edge / Of one of many circles." For 10 points, name this author of "Sunday Morning" and "Thirteen Ways of Looking at a Blackbird."

ANSWER: Wallace Stevens

5. This composer's ninth piano sonata opens with a chromatically descending melody in 4/8 harmonized in alternating major thirds and diminished seventh intervals. His third symphony has movements titled "Luttes", "Voluptés", and "Jeu divin". This composer invented a synthetic chord that stacks two perfect fourths on top of an augmented fourth, a diminished fourth, and another augmented fourth. One work by this composer of the "Black Mass" Sonata manipulates his "mystic chord" and requires a "color organ" to project synesthetic effects. An unfinished symphonic work by this composer of *The Divine Poem* was meant for a performance in the foothills of the Himalayas followed by the end of the world. For 10 points, name this Russian Symbolist composer of the unfinished *Mysterium* and *Prometheus: The Poem of Fire*.

ANSWER: Alexander Nikolayevich Scriabin

6. One holder of this position was ousted by order of John Kerr after the Loans Affair involving his advisers Rex Connor and Jim Cairns. The most recent man to hold this position in non-consecutive terms helped orchestrate the Petrov Affair when he encouraged the defection of a high-ranking foreign spy and signed the Migration Act eliminating xenophobic measures like the infamous dictation test. The shortest-serving holder of this office vanished while swimming. This position has been held by Harold Holt, Malcolm Fraser, and Robert Menzies, who signed the SEATO and the ANZUS treaties. For 10 points, identify this high office held by John Howard and Julia Gillard, the head of state of a certain country/continent.

ANSWER: Prime Minister of Australia [do not accept "Prime Minister of Antarctica," except from Zach Foster]

7. In one poem by this author, the speaker imagines himself living near a young giantess, like a cat at the feet of a queen. In one poem, this author describes perfumes that seem "as cool as the flesh of children / Sweet as oboes, green as meadows" after describing Nature as a temple with "living pillars". Another of his poems asks whether a "green succubus" or "rosy elf" has poured fear and love over the title figure, who has "horror and madness" reflected in her face. In another poem, he compared the Poet to the title "prince of the skies" whose wings drag like oars. Those poems by him, including "Correspondences", "The Sick Muse", and "The Albatross" appear in a section called "Spleen and Ideal". For 10 points, name this French forerunner of Symbolism, many of whose poems are collected in *The Flowers of Evil*.

ANSWER: Charles Pierre Baudelaire

8. This work critiques absolute skepticism about non-personally-experienced events using an anecdote about a King of Siam who disbelieves a Dutch ambassador who tells him about ice. A similarly-themed section of this work discusses a sentient parrot described by Maurice of Nassau. The author of this work acknowledges the possibility of truth only within systems, and apologizes to readers who think he is only building a "Castle in the Air." This work uses the example of a piece of porphyry to discuss its distinction between qualities innate to matter and qualities mediated by the senses, which it denotes primary and secondary. Arguing that all knowledge comes from experience and reflection, for 10 points, identify this work proposing that the human mind is a *tabula rasa* at birth, John Locke's masterpiece on epistemology.

ANSWER: An Essay Concerning Human Understanding

9. One music video for this artist featured Jeffrey Tambor as a disgruntled theater director who is persuaded by Eric Clapton to let this artist sing, and opens with "You know I never meant to see you again." Another song states that "You can tell from the lines on her face" and asks you to "think twice" on the titular day. Both of those songs were featured on the 1989 album *But Seriously...*, the follow-up to his most successful record, *No Jacket Required*. Eminem's "Stan" sees the title figure note "you could have saved me from drowning," a reference to this man's most famous song, which notes that pain is "no stranger to you and me" just before launching into the drum fill. For 10 points, name this artist responsible for "I Wish It Would Rain Down" and "Another Day In Paradise," the former drummer of Genesis best known for "In the Air Tonight".

ANSWER: Phil Collins

10. One pope with this name decreed December 25 to be the date of the Nativity, but is better known for convening a synod exonerating Athanasius and his bishops from blame. Another pope with this name, along with Pius III, dashed George D'Amboise's hopes of obtaining the papacy and recruited Mattheus Schinner to command the first iteration of the Swiss Guard. The most famous Pope with this name convoked the Fifth Lateran Council, created the League of Cambrai, and was the dedicatee of the *Moses* and *Dying Slave* sculpted in his namesake unfinished tomb. That one, nicknamed "the Warrior Pope," commissioned the rebuilding of St. Peter's Basilica. For 10 points, the second pope to adopt what name commissioned Michelangelo's decoration of the Sistine Chapel ceiling?

ANSWER: Julius

11. This man's "Imperial Vision" is described in a 2004 article by Brian Blouet, arguing that his travels in Africa to climb Mount Kenya were a turning point that pushed him away from market-based theories. Nick Megoran has noted his intense popularity among Uzbek intellectuals, while Li Narangoa argues Japanese involvement in Mongolian politics was motivated by study of this man's works. This man's most famous work referred to his age as "the end of a great historical epoch," termed the Colombian Age, to be followed by an era where control of Eastern Europe would become increasingly important. In that work using the terminology of the "World Island," this man

termed key regions “The Heartland.” Considered the founder of geopolitics, for 10 points, identify this British geographer, the author of “The Geographical Pivot of History.”

ANSWER: Halford **Mackinder**

12. Timur claimed descent from this figure by asserting that one of his descendents turned into beam of light and impregnated Alan Qo'a, an ancestress of Genghis Khan. He is identified with the epithet “God's Favor Upon His Face”, and his secret burial place is thought to be in either Najaf or the Blue Mosque in Mazar-e-Sharif. He gained the nickname “Lion of God” after commanding at the Battle of Khaybar, where he wielded the forked sword Zulfiqar. This man, whose position was the subject of the controversial hadith of the pond of Khumm, was assassinated by the Kharijites at Kufa, thus ending the first Fitna. He became the father of Hussein and Hassan by his first wife, Fatimah. For 10 points, identify this son-in-law of Muhammad, who Sunnis consider the fourth rightly-guided Caliph and Shias consider the first Imam.

ANSWER: **Ali** ibn Abi Talib

13. One of this man's most important achievements as governor culminated in the fight around the Costigan Bill and included negotiations with Commissioner Wales and a political group led by Jarvis Lord. This man secured the presidential nomination over Thomas Hendricks, though his campaign was hurt by the fraudulent Cipher Telegrams. La Fayette Grover helped secure this man's successful but ultimately futile disqualification of postmaster John Watt. This man was thwarted after the resignation of David Davis allowed J.P. Bradley onto a certain body, years after this man's campaign against Tammany Hall led him to break up the Canal Ring while Governor of New York. Florida's electoral votes were dubiously awarded to this man's most famous opponent by a rigged Electoral Commission appointed by Congress. For 10 points, name this man who ultimately lost the 1876 election to Rutherford B. Hayes.

ANSWER: Samuel **Tilden**

14. This function can be used to model Jeans escape. When this function is rewritten to apply to energy, the result is the product of the density of states, which is proportional to the square root of the energy, and the probability of a state being occupied, which is a quantity named for one namesake of this function. This function's maximum occurs at the square root of two $R T$ over M , which is slightly under its average and root-mean-square. The Sackur-Tetrode equation fails at low temperatures because it assumes that this classical function holds true. This function is used when one has identical, but distinguishable particles, as opposed to identical and indistinguishable in the cases of the Bose-Einstein and Fermi-Dirac. For 10 points, name this doubly-eponymous distribution of the velocities of molecules in a gas.

ANSWER: **Maxwell-Boltzmann** speed distribution [or **velocity** in place of **speed**; prompt on **Maxwellian** speed distribution; prompt on **Boltzmann** distribution; prompt on **Gibbs** distribution]

15. One character in this novel responds to a letter beginning "Dear Shithead" by telling the story of an elephant that got drunk on beer at an Indian wedding and electrocuted itself. While sleeping in a castle, a grandmother in this novel has a recurring dream of Charlemagne's soldiers on horseback gathering at a fountain. Duncan wears an eye-patch after a broken gearshift goes through his eye in a car accident in this novel. Its protagonist's wife has an affair with Michael Milton and is the daughter of wrestling coach Ernie Holm. This novel's protagonist writes a story about a hotel reviewer's family and a Hungarian circus, including a unicycling bear, at an Austrian hostel called "The Pension Grillparzer". The son of feminist nurse Jenny Fields is the title author in, for 10 points, what novel by John Irving?

ANSWER: *The* **World According to Garp**

16. In one film directed by this man, one couple becomes dozens having very dusty sex while accompanied by piano music, while another scene in the same movie has an airplane repeatedly buzz a dilapidated Buick until the driver pretends to be a Toreador. In one of his iconic scenes, an interracial couple is the only one dancing in a room filled with silent and motionless youths listening to the Yardbirds, though when a speaker malfunctions the main character, an increasingly paranoid photographer played by David Hemmings, flees. The middle part of his best-known trilogy ends with Marcello Mastroianni trying to make love to Jeanne Moreau in a golf course bunker; the first and third films of that trilogy by this man are *L'Avventura* and *Eclipse*. For 10 points, identify this director of *Zabriskie Point*, *Blowup*, and *La Notte*, an Italian filmmaker.

ANSWER: Michelangelo **Antonioni**

17. This figure sees such portents as a snake crawling out of his father's tomb and his son's head catching fire. Ovid described how this man's mortality was washed away by the river god Numicius. In one episode, this man is enraged by the sight of a stolen belt decorated with a scene of the Danaids' murdered husbands. Zeus's desire to protect the line of Dardanos led to Poseidon briefly switching sides to protect this character from Achilles. He fathered Silvius with his second wife, whom he married shortly before defeating an army led by Mezentius, Amata, and Turnus. His *katabasis* was aided by the Cumaean Sibyl, who tasked him with finding a golden bough. This son of Anchises was originally married to Creusa, with whom he fathered Ascanius. For 10 points, name this Trojan prince who abandoned Dido in order to complete a journey to Italy in a namesake epic poem by Vergil.

ANSWER: Aeneas [or Aineias]

18. Equivalent descriptions of these objects can be passed between by a finite number of Tietze transformations. The set of all continuous deformation congruence classes of paths in a manifold is one type of these objects. The largest prime power that divides the order of one of these objects is also the order of one of its subsets according to one of Sylow's theorems, which is a partial converse of Lagrange's theorem. Every finite one is isomorphic to a subset of the symmetric one according to Cayley's theorem. Sometimes defined as a monoid with an inverse element, these objects are a set with an identity element and an inverse for every element that is closed under a binary operation which is associative. For 10 points, name these objects that, when their operation possesses commutativity, are known as "abelian," and which are studied in abstract algebra along with rings and fields.

ANSWER: groups

19. A modern interpretation of this painting advanced by Carlo Ginzburg suggests that the seated man in a red hat at its far left is Byzantine emperor John VIII Palaiologos. That interpretation also suggested the painting itself is both an allegory of the suffering of Constantinople and an invitation for an anti-Ottoman crusade to Federico da Montefeltro, the Duke of Urbino. A man in a turban stands faces away from the view in this painting, which features a room at back left decorated with a black-and-white-checkered floor and coffered ceiling. A gold swordsman tops a column in this work, which shows three men stand in the foreground at right, oblivious to the titular scene. Pontius Pilate sits in a throne at far left observing the titular action of this work, which is performed on a bound man using a lash. For 10 points, identify this small, somewhat odd masterpiece of Piero della Francesca, which shows Jesus being whipped.

ANSWER: Flagellation of Christ [or Flagellazione di Cristo]

20. One character in this novel is chastised for serving a lunch of bread and cheese as a replacement for burnt porridge. Another character in this novel has a dream in which a woman snatches off her bridal veil, places it on her own head, rends it, and tramples it. In this novel, a male character disguises himself as a gypsy woman and tells fortunes for his future wife and for Blanche Ingram. The protagonist of this novel is educated at a school run by Mr. Brocklehurst, where she meets Helen Burns, before St. John [pronounced "sin - jin"] Rivers proposes to her to join him as a missionary in India. The title character's first wedding is called off when it is revealed that the master of Thornfield Hall is secretly married to Bertha Mason. For 10 points, name this novel about the title governess who marries Edward Rochester, by Charlotte Brontë.

ANSWER: Jane Eyre

According to Liotti and Tucker, decreased levels of this in individual suffering from depression slow reactions to stimuli in the left visual field. Levels of this are related to which information people choose to pay attention to and which information gets encoded in long-term memory. Hans Eysenck found an association between personality and "natural" levels of this. In one study investigating the misattribution of this, male participants crossed either a sturdy or shaky bridge before an encounter with a female confederate. A higher level of this is better for simple tasks while a lower level is better for more difficult or complex tasks according to the Yerkes-Dodson Law. According to Schachter's two-factor theory, people look for emotionally relevant cues in the immediate environment to interpret feelings of this that they cannot explain. For 10 points, name this physiological and psychological state of being reactive to stimuli.

ANSWER: Arousal

BONUSES

You are Shoghi Effendi. Answer the following about yourself, for 10 points each.

[10] You were quite distraught when Wellesley Tudor Pole brought you a telegram informing you of the death of your grandfather, who was the eldest son of this man. You translated many of this man's writings, including the *Epistle to the Son of the Wolf*.

ANSWER: **Baha'u'llah** [or **Baha Allah**; or Mirza **Husayn Ali Nuri**]

[10] Your grandfather was Abdul Baha; as such, his death made you the first--and, as it turned out, only--Guardian of this monotheistic religion, which was founded by Baha'u'llah. It holds that Moses, Buddha, and Jesus were among the many messengers of God.

ANSWER: **Baha'i** Faith

[10] In 1953 you began the Ten Year Crusade, which ended with the first election of this Baha'i governing body. Its establishment was outlined in Abdul Baha's will, and its seat is in Haifa, Israel.

ANSWER: the **Universal House of Justice**

Agarose gel is a common medium used in this technique. For 10 points each:

[10] Identify this technique that uses an electric field to separate DNA molecules by size.

ANSWER: **DNA gel electrophoresis**

[10] After a gel is run, it is commonly soaked in a solution of this compound, which intercalates DNA and makes the fragments fluoresce with a bright orange color when placed under UV light.

ANSWER: **ethidium bromide** [or **EtBr**; or **CH3CH2Br**; or **bromoethane**; or **3,8-diamino-5-ethyl-6-phenylphenanthridinium bromide**]

[10] Unlike an agarose gel electrophoresis, this type of electrophoresis denatures the secondary structure and non-disulfide linkages of a protein. This technique gets its name from the anionic surfactant that imparts a negative charge to the linearized proteins.

ANSWER: **SDS-PAGE** [or **sodium dodecyl sulfate polyacrylamide** gel electrophoresis; prompt on "SDS"]

The Venetian or polychoral style of this type of composition was pioneered by Giovanni Gabrieli and was continued by his student Heinrich Schütz in his *Symphoniae sacrae*. For 10 points each:

[10] Name this type of polyphonic vocal work, the sacred counterpart of the madrigal, examples of which include Tallis's *Spem in alium* and Byrd's *Cantiones sacrae*.

ANSWER: **motet** [or **motectum**; or **mottetto**]

[10] This Italian Renaissance composer wrote a collection of motets setting texts from the Song of Solomon, his *Canticum canticorum*. His *Pope Marcellus Mass* is credited with saving polyphony.

ANSWER: Giovanni Pierluigi da **Palestrina**

[10] Mozart's final and most celebrated motet is a setting of this Latin text praising the true body of the Virgin Mary. Liszt combined this motet with Allegri's *Miserere* in his *À la Chapelle Sixtine*.

ANSWER: **Ave verum corpus**

Name these things associated with a certain type of unemployment, for 10 points each:

[10] This type of unemployment results from the time workers spend transitioning between jobs or searching for a job. It can be voluntary and, unlike structural unemployment, is not due to a shift in conditions in the labor market

ANSWER: **frictional** unemployment [prompt on "search"]

[10] Friction can be visualized on one of these functions showing the relationship between the job vacancy rate and unemployment. It slopes downward because lower rates of vacancies occur with higher rates of unemployment.

ANSWER: **Beveridge** curve

[10] This law refers to the empirically-observed relationship between unemployment and decreases in GDP. One version of it states that for every 1% increase in unemployment there is a corresponding 2% decrease in GDP

ANSWER: **OKUN'S LAW**

Major Farfan prevents this character from leaving the country as a diplomat and has him imprisoned.

For 10 points each:

[10] Name this character who kidnaps but then falls in love with Camila, the daughter of General Canales.

ANSWER: **Miguel Angel Face** [accept either underlined part]

[10] Miguel Angel Face appears in this dictator novel by Miguel Asturias, which sees the attorney Abel Carvajal thrown in prison after the beggar Zany murders Colonel Sonriente at the Cathedral Porch.

ANSWER: **El Señor Presidente** [or **Mister President**]

[10] The assassination of Rafael Trujillo is fictionalized in *The Feast of the Goat*, a dictator novel by this Peruvian

author of *Aunt Julia and the Scriptwriter*.

ANSWER: (Jorge) Mario (Pedro) **Vargas Llosa**, First Marquis of Vargas Llosa

For 10 points each, identify these Platonic dialogues:

[10] In this dialogue, the title character is about to prosecute his father on charges of manslaughter when he encounters Socrates. They discuss the nature of piety, considering whether what is pious dictates what the Gods love or vice versa.

ANSWER: **EUTHYPHRO**

[10] In this dialogue, the title character urges Socrates to escape from prison and go into exile. Socrates refuses and hypothesizes personifications of Athenian laws which tell him to stay in Athens based on an implicit social contract to which Socrates agreed by spending his adult life in Athens.

ANSWER: **CRITO**

[10] IN THIS DIALOGUE, SOCRATES ENCOUNTERS CHAEREPHON AND CRITIAS IN THE PALAESTRA BEFORE ENGAGING IN A DISCUSSION ABOUT SOPHROSUNE, OR "SELF-CONTROL," WITH THE TITULAR BEAUTIFUL BOY. DURING THE DISCUSSION, SOCRATES DRAWS THE ANALOGY THAT IGNORANCE IS TO THE PHILOSOPHER WHAT DISEASE IS TO THE PHYSICIAN.

ANSWER: **CHARMIDES**

ANSWER SOME QUESTIONS ABOUT A LATIN AMERICAN LEADER, FOR 10 POINTS EACH:

[10] THIS MAN SERVED UNDER FRUCTUOSO RIVERA IN THAT MAN'S EFFORTS TO DRIVE THE BRAZILIANS OUT OF URUGUAY. HE LATER LED HIS COUNTRY'S FORCES DURING THE WAR OF THE TRIPLE ALLIANCE, ALONG WITH PEDRO II OF BRAZIL AND VENANCIO FLORES OF URUGUAY, AND FOUNDED THE NEWSPAPER *LA NACION*.

ANSWER: BARTOLOME **MITRE**

[10] MITRE WAS THE PRESIDENT OF THIS COUNTRY, WHICH, ALONG WITH URUGUAY AND BRAZIL, DEFEATED PARAGUAY IN THE WAR OF THE TRIPLE ALLIANCE. MITRE TOPPLED THIS COUNTRY'S LEADER JUAN MANUEL DE ROSAS AT THE BATTLE OF CASEROS.

ANSWER: **ARGENTINA**

[10] AT CASEROS, MITRE WAS ALLIED WITH URUGUAYANS FROM THIS POLITICAL FACTION, WHICH LED THE EARLY INDEPENDENCE CONFLICT. AN IDENTICALLY-NAMED GROUP IN PARAGUAY RULED FOR MUCH OF THE 20TH CENTURY UNDER THE LEADERSHIP OF ALFREDO STROESSNER.

ANSWER: **COLORADO**

The simplest modes that gives rise to absorptions in this type of spectroscopy are stretching and bending. For 10 points each:

[10] Identify this spectroscopy that uses a namesake part of the electromagnetic radiation spectrum that is longer in wavelength than visible light.

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

[10] This region is used in IR spectroscopy to differentiate structurally similar molecules, rather than identifying unknown ones. It lies between about fifteen hundred and four hundred inverse centimeters.

ANSWER: **fingerprint** region

[10] This method of preparing a solid sample for IR spec involves grinding the compound with a namesake liquid paraffin mineral oil to create a suspension that is put between salt plates.

ANSWER: **Nujol mull** [prompt on partial answer]

ANSWER THE FOLLOWING DEEPLY FASCINATING QUESTIONS ABOUT TAXATION AND MEDIEVAL PEASANTRY, FOR 10 POINTS EACH:

[10] If you were a peasant, you might be faced with this unpleasant forced labor conscription by your local lord. It lasted in France until the Revolution, and in later years was mostly used by the state to make people fix their local roads.

ANSWER: **CORVEE**

[10] If you lived in France, you might also have to pay this harsh and labyrinthine salt tax, that would ultimately drive the Red Bonnets of Brittany to revolt. It was introduced Philip the Fair.

ANSWER: **GABELLE**

[10] You'd probably also have to pay this sort of tax for the upkeep of the local church, traditionally a tenth of your income. On the bright side, you'd probably have died from stubbing your toe or whatever by now, so then you wouldn't really have to worry about it.

ANSWER: TITHE

At the beginning of this play, Oswald comes home from Paris with congenital syphilis and a plan to marry his half-sister Regina. For 10 points each:

[10] Name this play, in which Mrs. Alving funds an orphanage that Parson Manders burns down.

ANSWER: Ghosts [or Gengangere]

[10] This Norwegian playwright of *Ghosts* wrote about Nora's escape from her marriage to Torvald in *A Doll's House*.

ANSWER: Henrik Ibsen

[10] The ghost of the White Horse haunts the title manor after Beata's suicide in this Ibsen play, in which Rebecca West and Johannes struggle with the consequences of their love for each other.

ANSWER: Rosmersholm

That Loki is such a jerk at parties. Identify the following about the events of the *Lokasenna*, for 10 points each.

[10] Loki accuses this chief of the Aesir of performing cross-dressing magical rituals on the island of Samsey. In return, this one-eyed "All-Father" mocks Loki for spending eight years underground milking a cow as a woman.

ANSWER: Odin [or Woden; or Wotan; or Wodanaz; or Godan]

[10] Despite this deity's attempts to placate him, Loki insults this god for his cowardice, calls him an "adorner of benches," and mocks his wife Idunn for sleeping with her brother's killer. He's the god of skalds and poetry.

ANSWER: Bragi

[10] During Loki's mockery of Skadi, he brought up his own involvement in the death of this giant, Skadi's father. This son of Alvaldi kidnapped the goddess Idunn in order to acquire her golden apples of eternal youth.

ANSWER: Thjazi [or Thiazi; or Tjasse]

He was the subject of a fawning discussion of his Political Principles in a book by James McClellan and Russell Kirk. For 10 points each:

[10] Name this Senator who won praise from Kirk for opposing the Austin-Wadsworth Bill and other efforts at mandatory military service, for supporting federal anti-lynching laws, and for having a "prejudice against empire."

ANSWER: Robert Taft

[10] Robert Taft was a Senator from this state. Other notable Senators from this state have included John Sherman and Warren Harding.

ANSWER: Ohio

[10] Taft's strongest presidential run was in 1952, when he hoped for a split in ballots between Eisenhower and this Governor of California. Taft was dead by the time Ike referred to this man as "the biggest damned fool mistake" he'd ever made.

ANSWER: EARL WARREN

The strength of these storm systems is measured on the Saffir-Simpson scale. For 10 points each,

[10] Identify this storm system with maximum sustained wind speeds of 74 miles per hour or higher, a step up from tropical storms.

ANSWER: major hurricane [or tropical cyclone; or typhoon; prompt on cyclonic storm]

[10] Maloney and Hartmann theorized that this dominant component of the intraseasonal variability modulates tropical cyclone activity. It propagates from the Indian Ocean and western Pacific Ocean to the eastern Pacific Ocean over a 30 to 60 day period.

ANSWER: Madden-Julian oscillation [or MJO]

[10] The upper-level westerlies and low-level easterlies east of the MJO convective center resemble these gravity-driven, nondispersive waves. Their discoverer also names an instability with Helmholtz that results from velocity shear between two media.

ANSWER: Kelvin wave [or Kelvin-Helmholtz instability]

For 10 points each, answer some questions about the Renaissance genre of "city comedy".

[10] This English playwright's *Volpone* and *Epicoene* are often classified as city comedies.

ANSWER: Ben(jamin) Jonson

[10] One of the earliest city comedies is this other Ben Jonson play, in which Knowell sends Brainworm to spy on Edward's activities in London. Its sequel was less successful.

ANSWER: **Every Man in His Humour**

[10] Moll Yellowhammer is the title character of this Thomas Middleton city comedy, in which she escapes her betrothal to Sir Walter Whorehound in order to marry Touchwood Junior.

ANSWER: A **Chaste Maid in Cheapside**

Any system with a non-vanishing second derivative of potential energy can be approximated by the solution to this system. For 10 points each:

[10] Name this type of system that experiences a restoring force when displaced from equilibrium. Examples include springs and pendulums.

ANSWER: simple **harmonic oscillators** [or **SHOs**]

[10] This dimensionless quantity is a measure of the extent to which an oscillator is free from damping. It is defined as two pi times the ratio between the energy stored and the energy lost, per period.

ANSWER: **Q factor** [or **quality factor**]

[10] In RC, LC and RLC circuits, this measure is given by the center, or resonant, frequency divided by the quality factor. It can also be measured at the 3 dB points.

ANSWER: passband **bandwidth** [or baseband **bandwidth**; or analog **bandwidth**; or frequency **bandwidth**; or radio **bandwidth**]

In this opera, the villain leads a chorus of drunken villagers in a song about the Golden Calf. For 10 points each:

[10] Name this opera, in which the title character kills Valentin and in which Marguerite sings a ballad about the King of Thule and her Jewel Song: "Ah! je ris de me voir si belle en ce miroir".

ANSWER: **Faust**

[10] Faust is by this French opera composer who adapted a prelude from Bach's *Well-Tempered Clavier* for his version of the *Ave Maria*.

ANSWER: Charles-François **Gounod**

[10] The Faust legend was also adapted to the operatic stage by this Italian composer in his *Mefistofele*. He served as the librettist for Giuseppe Verdi's *Otello* and *Falstaff*.

ANSWER: Arrigo **Boito** [or Enrico Giuseppe Giovanni **Boito**]

One member of this dynastic house was the foppish dandy Joachim, King of Naples, who was ultimately killed during an 1815 uprising at Pizzo. For 10 points each:

[10] Identify this house that also included Elisa, a princess of Lucca and Piombino and major patron of the arts.

ANSWER: House of **Bonaparte**

[10] Napoleon made his youngest brother Jerome the ruler of this Kingdom from 1807-13. Including the capital city Kassel, this polity shared its name with a series of 1648 peace treaties ending the 30 Years War.

ANSWER: Kingdom of **Westphalia**

[10] Napoleon III, the other ruling member of the House of Bonaparte, was the son of Louis I or Luigi Bonaparte, who approached his job as ruler of this Kingdom with charming if ill-fated solemnity.

ANSWER: **Holland** or the **Netherlands**

In his most famous book, this man argues the title concept is the most natural explanation for notions like patriotism and ethnocentrism, as well as explaining the trend of development in suburbs. For 10 points each:

[10] Identify this author of *Topophilia*, a Chinese-born leader in the field of human geography who also is known for his definitions of the title concepts in "Space and Place: The Perspective of Experience."

ANSWER: Yi-Fu **Tuan**

[10] Carl Ritter, often considered the founder of human geography, was greatly influenced by the work of this German, a geographer and naturalist whose *Kosmos* was the product of numerous voyages around the world. His brother Wilhelm helped design the Prussian educational system.

ANSWER: Alexander von **Humboldt**

[10] An important moment in human geography was John Snow's 1854 creation of a map during the Broad Street outbreak of this disease in London, helping to show the disease was spread by contaminated water.

ANSWER: **CHOLERA**

In this novel, Philip Philipovich Preobrazhensky and his student Bormenthal engage in ethically questionable medical procedures. For 10 points each:

[10] Name this satire in which Sharik, after undergoing surgery, takes on the name Polygraph Polygraphovich Sharikov and proceeds to terrorize Dr. Preobrazhensky's household.

ANSWER: **Heart of a Dog**

[10] This author of *Heart of a Dog* was subject to heavy censorship from the Soviet government; consequently, his *The Master and Margarita* was not published until twenty-six years after his death.

ANSWER: Mikhail Afanasyevich **Bulgakov**

[10] This character in *The Master and Margarita* is implied to be Satan in disguise. In his first appearance he correctly predicts the decapitation by streetcar of Berlioz, whose apartment he then takes over.

ANSWER: **Woland**

Answer the following about some early Italian Renaissance painters, for 10 points each:

[10] Born Guido di Pietro, this painter combined Gothic and Renaissance styles in his altarpiece *Coronation of the Virgin* for the Santa Maria Novella in Florence. He also painted several different versions of *The Annunciation* that feature angels with polychromatic wings.

ANSWER: Fra Giovanni **Angelico** [or **Giovanni da Fiesole**]

[10] Michelangelo was once apprenticed under this painter, who painted a fresco of *St. Jerome in His Study* for the Church of Ognissanti. In addition to creating the *Adoration of the Shepherds*, this artist also painted a fresco in the Tornabuoni Chapel that depicts the life of the Virgin Mary.

ANSWER: Domenico **Ghirlandaio**

[10] This Florentine painter depicted St. Augustine and San Frediano kneeling before the Virgin and the Son in the *Barbadori Altarpiece*. This painter of the Prato frescoes and is famously told in a Robert Browning poem to “paint the soul” and not the flesh.

ANSWER: FRA LIPPO **LIPPI** [OR FILIPPO **LIPPI**]