

# DRAGOON 2013

## Round 11

Questions by the University of Illinois at Urbana-Champaign

### Tossups

Note to moderator: Please read all of the alternate answers to this question to yourself before reading the question itself aloud to the teams

1. **One institution of this type was founded by Guy of Montpellier in his home city and later spurred the establishment of the Order of the Holy Ghost by Innocent III. The Bukkishu family served as longtime directors of one of these places within the Academy of Jundishapur in the Sassanid Empire. Places of this type were called *bimaristans* in Persia, while the Romans called them (\*) *valetudinaria*. Rhazes, or Al-Razi, directed institutions of this type in Rey and Baghdad. The oldest institution of this type in the United States was established at the New York City Almshouse and is called Bellevue. For 10 points, name these institutions which include Massachusetts General.**

ANSWER: **hospitals** [or **clinics** or **places for treating the sick** or obvious equivalents. Also accept **medical school** or **teaching hospital** since all of the places mentioned in this tossup also served that function to some degree]

2. **This is the lightest particle to be an eigenstate of the G-parity operator but not the charge conjugation operator. The decay of the phi meson into three of these particles is suppressed since the Feynman diagram can be cut in two while cutting only internal gluon lines according to the OZI rule. Since the kaon can decay into either two or three of these particles, the kaon was originally thought to be two particles: the tau and the theta. The primary decay mode for the (\*) neutral version of this particle is into two photons, while charged versions will decay into a muon and a muon neutrino. The exchange of one of these particles between two nucleons was predicted by Hideki Yukawa to mediate the strong force. For 10 points, and up or down quark and an up or down antiquark compose what lightest meson?**

ANSWER: **pion** [or **pi meson**, accept more specific answers like **pi+** or **pi-** or **pi<sup>0</sup>**]

3. **One author that was part of it abhorred the “attitude of the hyperassimilated” in “Blanchi,” a work from his collection *Pigments*. The author who started this movement stated “the poem is a snake-bird ... it sings with wings spread over the slaughter of the words” to close his poem “Elegy of the Circumcised.” A different author from this movement repeatedly uses the phrase “At the end of daybreak...” while comparing the women of his country to that of (\*) Josephine, the Empress. This movement is analyzed in a Jean-Paul Sartre essay named for Orpheus; that essay stated that its principal members are the politicians Léon Damas, Aimé Césaire, and Leopold Senghor. For 10 points, name this movement that champions African consciousness in the wake of colonialism.**

ANSWER: **Négritude**

4. **One of his solo compositions closes with an “obligatory cadenza” which mostly consists of huge F major chords. He composed the score to a ballet in which he appears in a short film played between the two acts, designed in collaboration with Francis Picabia. This composer of *Relache* also wrote the “symphonic drama” *Socrate*, and a set of piano pieces in which the performer is instructed to “arm yourself with clairvoyance.” He composed (\*) *Truly Flabby Preludes for a dog*, as well as a piece which depicts sea cucumbers and crustaceans. He also wrote three piano pieces inspired by Flaubert’s *Salamambo* and by the festivals of ancient Greece. For 10 points, name this mentor of Les Six, an eccentric Frenchman who composed the *Gnossienes*, *Desiccated Embryos*, and three *Gymnopedies*.**

ANSWER: Erik **Satie**

5. Chapter IX of his most widely-read work refutes Condorcet's belief of the organic perfectibility of mankind; that book devotes a number of chapters to refuting Godwin's conjectures on equality. In that work, this thinker distinguished between positive and preventive checks, the latter of which includes restraints on sexual passion. Another of his books discusses the portion of income paid to a factor of production above the (\*) opportunity cost and is titled *The Nature of Rent*. The opening to another of his books argues that resource size grows arithmetically, though the size of the human race grows geometrically; thus massive famine will eventually ensue. For 10 points, name this classical economist who authored *An Essay on the Principle of Population*.

ANSWER: Thomas Malthus

6. Wikipedia claims that this game influenced *Brute Force*, a game that shares the same genre and system with this one. This game's maps Chiron TL-34, Boarding Action, and Wizard feature green teleporters. This game's quasi-stealth level "Truth and Reconciliation" precedes "The Silent Cartographer," while the final level, "The Maw," has an easter-egg cut-scene where two enemies embrace. This was the breakout game for the developers of *Minotaur* and (\*) *Marathon*. The player must escape the *Pillar of Autumn* in its first level. The title of this game refers to a weapon created by Forerunners that could destroy the galaxy. Large multiplayer maps in this game like Sidewinder and Blood Gulch were remade in sequels to this game. For 10 points, name this 2001 Xbox shooter that introduced the Master Chief.

ANSWER: Halo: *Combat Evolved* [accept things like Halo 1 or the first Halo]

7. One account states that this entity was merely a mountain that hovered over the seas, which caused many people to fantasize about what it might do to them. According to the text *Il Milione*, this entity was spotted accurately by some inhabitants of Madagascar, and it is capable of tossing elephants into the air. One dude who encounters one of these creatures steps onto a huge pile of meat (\*) and is transported by one out of a valley where diamonds line its base like a carpet does. This animal is often conflated with the *simurgh* and the Indian Garuda. Sinbad the Sailor encounters the eggs of these creatures, who naturally eat snakes. For 10 points, name this huge-ass Persian bird.

ANSWER: Roc or Rukh

8. The inconsistency of this model was first demonstrated by showing that the number of provable functions that it produces was enumerable. System F is a modification to it that introduces typing, but it does not possess the power of computational universality that *this* possesses. Its relation to deductive logic was shown to be equivalence via the Curry-Howard isomorphism. This system, which was designed to minimally model (\*) function creation and function application, is often used to model functional programming languages. Alpha reductions and Beta reductions are used to show the equivalence of statements in this system. For 10 points name this mathematical model developed by Alonzo Church, which is named after a Greek letter.

ANSWER: untyped lambda calculus

9. This politician ended the practice of awarding surplus funds to the Theorica, and gave them to the military instead. This man defended Ctesiphon after the latter proposed that this man receive a special reward for his merit. Along with his colleague Aeschines, he negotiated the Peace of Philocrates in order to protect Phocis at the end of the (\*) Third Sacred War. This politician pleaded for assistance to the people of Olynthus and later gave a funeral speech in honor of those killed at the Battle of Chaeronea. In *Parallel Lives*, Plutarch pairs this man with Cicero and claims that he practiced speaking with pebbles in his mouth, allowing him to deliver speeches like *On the Crown*. For 10 points, name this Athenian orator and statesman who warned against Macedonian expansionism in his *Philippics*.

ANSWER: Demosthenes

10. One of this writer's plays inspired a fictional drama in the novel *United States of Banana* in which all Latin Americans receive passports to the 51<sup>st</sup> state Puerto Rico. One of his works opens with two strangers losing their horses to lightning when they approach a fortress. In that work, the Muscovite Rosaura recognizes a sword, which causes her life to be spared. One of his characters is Gutierre, who suspects that his wife Mencia is cuckolding him. This author of (\*) *The Surgeon of His Honor* wrote about a regiment that passes through the village of Pedro Crespo in a work in which he is appointed to the title post. His play set in Poland features prince Segismundo, who is unsure whether his life corresponds to reality. For 10 points, name this Spanish author of *The Mayor of Zalamea* and *Life is a Dream*.

ANSWER: Pedro Calderón de la Barca

11. This process is assisted by a type of PPIase proteins known as trigger factors. This process can be modeled by a rugged funnel-shaped energy landscape which contains a molten globule intermediate. The appearance of a peak at 222 nm can be used to monitor this process using circular dichroism spectroscopy. The addition and removal of 2-mercaptoethanol and urea showed that this process occurs (\*) spontaneously in vitro in the Anfinsen experiment. This process is assisted by heat shock protein 70, which is an example of a chaperone. This process sees the formation of disulfide bonds, alpha helices, and beta sheets. Occurring irregularly in prions, for 10 points, name this process in which a protein acquires its three-dimensional structure.

ANSWER: protein folding

12. Examples of *them* include Cornacchini's depiction of Charlemagne in the narthex of St. Peter's, and Giambologna's treatment of Cosimo de Medici that is in the Piazza della Signoria. One of the best known of these items is named for the subject's nickname of "honeyed cat" and resides in the main square of Padua. (\*) Verocchio was commissioned to produce one that depicts Bartolomeo Colleoni after its subject left his will to the Republic of Venice. The oldest surviving one is made of bronze and depicts a "good emperor" holding out his hand. During the Renaissance, these artworks were typically modeled on the ancient one of Marcus Aurelius. The *Gattamelata* is one of *these* by Donatello. For 10 points, name this type of sculpture, which depicts a man on horseback.

ANSWER: equestrian statues [accept statues of men on horseback before the word "horse" is mentioned, prompt on "statues" or "sculptures."]

13. This work posits the ancient concepts of *Chresis*, *Enkrateia* and *Aphrodisia* to define "The Moral Problematization of Pleasures." This treatise traces the decline of the feudal power of "right of death" with the rise of the "power over life." Its first part discusses the socialization of a certain type of behavior to put forth the repressive hypothesis, which holds that the title subject of this work was not (\*) suppressed from discourse. Although this work was initially going to consist of eight volumes, its author only completed *The Care for the Self*, *The Use of Pleasure* and the first volume, which introduces the term "biopower" and is called *The Will To Knowledge*. For 10 points, name this three volume treatise on the title bodily function, a work of Michel Foucault.

ANSWER: *The* History of Sexuality [or Histoire de la Sexualite. Prompt on "The Use of Pleasure"]

14. This work's fifth stanza paraphrases Horace by stating "Brave men were living before Agamemnon." 20 stanzas of this poem praise the exploits of American folk hero Daniel Boone, turning him into a legend. It begins "I want a hero: an uncommon want." The title character of this poem, which is mockingly dedicated to Robert Southey, joins the Russian army and befriends (\*) Catherine the Great after the pirate Lambro enchains him and sells him to a sultana in Constantinople. According to its author, this poem in *ottava rima* was written from episode to episode without a plan. The first canto of this poem appeared in 1818, and the seventeenth canto was unfinished due to its author dying in a fight for Greek independence. For 10 points, name this Lord Byron poem about a sexual libertine.

ANSWER: Don Juan

15. Though Donald Jackson wrote about this event, Nicholas Biddle wrote the first authoritative book on it with Paul Allen. Jean-Pierre Chouteau provided counsel to the leaders of this event, who were aided by George Drouillard. A prime figure in this action is the subject of the Stephen Ambrose biography *Undaunted Courage*. A major player for this cause served as the final governor of the Missouri Territory, while another would later commit suicide on the (\*) Natchez Trace. The black man-servant York participated in this event that saw the birth of Pompey, the son of Toussaint Charbonneau and his Shoshone wife. For 10 points, name this mission that departed from St. Louis to explore the Louisiana territory.

ANSWER: Meriwether Lewis and William Clark expedition [or Corps of Discovery expedition; accept synonyms for "expedition"]

16. In one text, this saint sings the "Hymn of the Pearl," and in another, he recovers the girdle of the Virgin Mary when she drops it while ascending to heaven. A text named for this man begins "Whoever discovers the interpretation of these sayings will not taste death." Along with Barbara, he is the patron saint of architecture. Marco Polo claimed that this man actually died by a man who couldn't throw an arrow while he was at Chennai; other sources state that he died in Edessa. This man's eponymous (\*) gnostic gospel consists of 114 sayings of Jesus, and according to the Gospel of John, this saint requested to thrust his hand into Jesus's side. For 10 points, name this apostle who spread Christianity to India and doubted that Jesus was actually resurrected.

ANSWER: St. Thomas the Apostle

17. Along with temperature and volume, this quantity is held constant in the grand canonical ensemble. This quantity for a component in solution is equal to a standard value of this quantity plus the product of the gas constant, temperature, and the natural log of the activity. The Gibbs phase rule can be derived by noting that this quantity is equal in all phases. It's not (\*) concentration, but diffusion occurs along gradients in this quantity. When temperature and pressure are constant, this quantity is defined as the derivative of the Gibbs free energy with respect to the number of particles. For 10 points, name this thermodynamic quantity which represents the change in energy when a particle is added to the system, commonly symbolized mu.

ANSWER: chemical potential [do not accept or prompt on "potential," prompt on "mu" before read]

18. In one incident during this conflict, a group of prison inmates wore only blankets and smeared excrement on their cell walls after their 'Special Category Status' was revoked. An earlier incident during this conflict began when the RUC broke up a crowd protesting an Apprentice Boys' parade, dubbed the 'Battle of the (\*) Bogside.' This conflict was ended by a series of peace talks chaired by former U.S. Senator George Mitchell. Ten inmates at the Maze Prison starved themselves to death during this struggle, including Bobby Sands. It began with a series of riots in the city of Londonderry, which was later the site of 'Bloody Sunday.' Ended by the Good Friday Agreement, for 10 points, name this 30-year conflict between republicans and unionists in Northern Ireland.

ANSWER: the Troubles [do not accept the "Time of Troubles"; accept the Maze Prison hunger strike or the Bobby Sands hunger strike/incident before 'RUC' ]

19. **One artist from this country created every one of his paintings by imagining that paper and ink were at war with each other, much like two armies. Another artist from this country used the “ink wash” style to create four landscapes of the seasons that can be found on his Long Scroll. James Whistler’s *Princess from a Land of (\*) Porcelain* was inspired by a series of artworks from this country. Van Gogh copied a series of prints he found in this country that were used as packing material, which depict a blooming plum tree. A man working on a big barrel as well as a giant wave can be seen in a series that depicts this country’s tallest mountain. Many artists from here depicted the “Floating World.”** For 10 points, name this country home to Hokusai.

ANSWER: Japan [or Nihon; or Nippon]

20. **At the spa town of Bad Karma in this novel, the porn star Margherita Erdmann murders a bunch of Jewish kids. It presents the story of Ensign Morituri, a man who survived kamikaze training. This novel’s protagonist dreams of meeting Jack Kennedy and Red Malcolm after being flushed down a toilet; another section tells the story of Byron the light bulb. The protagonist is sent to the Casino (\*) Hermann Goering in this novel’s second section. Its character of Captain Blicero eventually sacrifices Gottfried and searches for the 00000 rocket. This novel’s protagonist has his sexual conquests correlated with V-2 rocket strikes.** For 10 points, name this novel centering on Tyrone Slothrop, the masterpiece of Thomas Pynchon.

ANSWER: *Gravity’s Rainbow*

21. **One string quartet of this number contains two scherzos, one marked ‘Allegro pizzicato’ and one marked ‘Prestissimo con sordino.’ One symphony of this number was described by the composer as expressing “the spirit of life or manifestations of life.” Prokofiev’s piano concerto of this number was written for Paul Wittgenstein and is for the left hand alone. A soprano sings (\*) “Das Himmlische Leben” in the last movement of Mahler’s symphony of this number. Beethoven’s symphony of this number is in B-flat, and Carl Nielsen’s symphony of this number features sets of warring timpani and is called the “Inextinguishable”.** For 10 points, identify this number of the Beethoven symphony which followed the *Eroica*.

ANSWER: 4 [accept equivalents]

## Bonuses

1. This city's San Telmo neighborhood boasts a long-running antique fair and is a haven for dancers. For 10 points each:

[10] Name this city on the south shore of the Rio de la Plata, the capital of Argentina.

ANSWER: **Buenos Aires**

[10] Buenos Aires is located slightly downstream from where two rivers merge to form the Rio de la Plata. Name either.

ANSWER: **Parana** or **Uruguay**

[10] The countryside around Buenos Aires is part of these large plains, which lie between the Gran Chaco and Patagonia and which are considered the homeland of the gauchos.

ANSWER: the **pampas**

2. Answer these things about assassinations in Italian history, for 10 points each:

[10] This king imposed martial law and awarded Fiorenzo Bava-Beccaris a medal for his brutal repression of riots in Milan. These actions later led to his assassination by Gaetano Bresci.

ANSWER: **Umberto I** [or **Humbert I**]

[10] This Italian prime minister was kidnapped by the Red Brigades terrorist group and assassinated in 1978.

ANSWER: Aldo **Moro**

[10] The assassination of Moro is considered the climax of a period called the "Years of" *this* material. This metal was the primary component in the ancient Roman plumbing system, although a protective layer prevented the water from becoming contaminated.

ANSWER: **lead** [or **piombo**]

3. One of the pioneers of this musical genre was Antonio Carlos Jobim. For 10 points each:

[10] Name this genre of jazz whose most famous example is the Stan Getz and Astrud Gilberto recording of "The Girl from Ipanema"

ANSWER: **bossa nova**

[10] Bossa nova is a genre of music from this South American country. Heitor Villa-Lobos is a famous composer from this country.

ANSWER: **Brazil**

[10] Afro-Brazilian jazz is contrasted with Afro-Cuban jazz, whose rhythms are partially based on those played by this percussion instrument, which is typically played either 3-2 or 2-3. This instrument consists of two cylindrical sticks which are struck together, producing a high-pitched noise

ANSWER: **clave** [clah-vey]

4. In this branch of mathematics, one may want to determine if a function is analytic, which means that they can be defined with a convergent power series, and they are also infinitely differentiable. For 10 points each:

[10] Name this discipline, whose most fundamental result may be the Cauchy-Goursat theorem, which is also known as the Cauchy integral theorem.

ANSWER: **complex analysis** or **complex variables** [No other answer, such as "complex number" is acceptable.]"

[10] For a meromorphic function, these points are places where the function's value becomes infinite. For the function "one over z to the n," one of these of order n can be found at  $z = 0$ .

ANSWER: **pole** [prompt on "singularity"]

[10] Since complex analysis makes use of complex numbers, it also makes use of these numbers, which are some multiple of  $i$ , which represents the square root of negative one.

ANSWER: **imaginary** numbers

5. He credited Freud with the breakthroughs that led to the development of automatic writing. For 10 points each:

[10] Name this French author of *The Magnetic Fields* who wrote of strange encounters with the title girl throughout Paris in *Nadja*. He wrote a manifesto that defended “pure psychic automatism.”

ANSWER: André **Breton**

[10] Breton is considered the founder of this literary and visual arts movement, which celebrated the portrayal of the true underlying nature of thought and is often characterized by dreamlike writing and imagery.

ANSWER: **surrealism**

[10] This French surrealist described the many places where “I write your name” in his poem “Liberty,” and wrote the collections *Capital of Pain* and *The Public Rose* before turning to more political poetry during World War II.

ANSWER: Paul **Eluard** [or Eugene **Grindel**]

6. One artist who is currently living in this city included a happy red mountain with a waterfall in his massive canvas *When the Worlds Collide*. For 10 points each:

[10] Name this current home to Kenny Scharf and former home to David Wojnarowicz. Its museums include the Museum of Modern Art and the Metropolitan.

ANSWER: **New York City**

[10] Renee Cox, a resident of New York City, created this photo-montage of 13 black people that parodies a religious theme.

ANSWER: ***Yo Mama's Last Supper***

[10] This “Radiant Child,” social activist and graffiti artist was born and died in New York City. His works include the *Irony of the Negro Policeman* series.

ANSWER: Jean-Michel **Basquiat**

7. This state gained power thanks to Shang Yang's reforms, and the kingdom of Han instantly surrendered to this kingdom when King An believed they would invade. For 10 points each:

[10] Name this kingdom whose leader Ying Zheng conquered six other states, which began a namesake dynasty.

ANSWER: **Qin** [or State of **Qin** or **Qin** Dynasty or **Qinguo**]

[10] The Qin Dynasty adopted this philosophy, which believes humans are inherently evil and that people should follow strict laws. Philosophers from this school included Han Fei and Li Si.

ANSWER: **Legalism** [or **Fajia**]

[10] One cause of the downfall of the Qin was this advisor to the incompetent Er Shi, who convinced Er Shi to commit suicide. One story claims to test how much power he had in the court, he brought a deer to the court, and claimed it was a horse, then executed anyone who claimed it was a deer.

ANSWER: **Zhao** Gao

8. Composer and work required. Iosef Kotek assisted the composer in the writing of this piece, whose second movement is a ‘Canzonetta.’ For 10 points each:

[10] Identify this D-major work for soloist and orchestra, which was written shortly after the composer completed his opera *Eugene Onegin*.

ANSWER: Pyotr Ilyich **Tchaikovsky's violin concerto** [accept equivalents, they need all three parts in some order]

[10] This Lithuanian-born American violinist's recording of the concerto with Fritz Reiner and the Chicago Symphony is considered by some to be the greatest of all time, though some critics have called his playing too cold and clean.

ANSWER: Jascha **Heifetz**

[10] Tchaikovsky also composed this ballet in which Prince Siegfried falls in love with Odette, who is cursed by the wicked sorcerer Von Rothbart to transform into an animal during daylight.

ANSWER: ***Swan Lake*** [or ***Lebedinoye ozero***]

9. Carbon dioxide and this compound are the reactants of the Sabatier process. For 10 points each:

[10] Name this compound that is produced by steam reforming in the form of syngas, which combines it with carbon monoxide. This compound is also produced alongside carbon dioxide in the water-gas shift reaction, and its standard electrode has a voltage defined as zero.

ANSWER: hydrogen gas [or H<sub>2</sub>]

[10] The industrial formation of hydrogen gas is an important precursor to the Haber process, which combines nitrogen and hydrogen gas to form this compound which is used in fertilizers.

ANSWER: ammonia [or NH<sub>3</sub>]

[10] Production of hydrogen is also an important precursor to this process, which uses carbon monoxide and hydrogen to produce liquid hydrocarbon fuels.

ANSWER: Fischer-Tropsch process

10. This character is accused of murdering his lover and setting fire to her home. For 10 points each:

[10] Name this character who may or may not have African-American blood, and who was raised by the strict McEachern family. He runs an illegal whiskey operation with a co-worker whose real name is Lucas Burch.

ANSWER: Joe Christmas [accept either]

[10] Joe Christmas is the anti-hero of this novel, in which the teenaged Lena Grove travels to the town of Jefferson to find her child's father.

ANSWER: Light in August

[10] *Light In August* was written by this American author, who also wrote *The Sound and the Fury*.

ANSWER: William Faulkner

11. Columbus, a man with this surname, resigned from Grant's cabinet for taking bribes. For 10 points each:

[10] Give this name. A 1960s grape boycott led by Cesar Chavez originated in a California town of this name.

ANSWER: Delano

[10] Calvin Coolidge, a descendant of the Delano family, quashed a police strike in this city. This city was the site of a December 1773 political protest by the Sons of Liberty.

ANSWER: Boston

[10] Columbus Delano served in this post. Its first holder was Thomas Ewing, while T. Roosevelt appointed Richard Achilles Ballinger to this post.

ANSWER: Secretary of the Interior

12. For 10 points each, name these Platonic thought experiments.

[10] This allegory describes a group of prisoners who are chained and forced to watch shadow puppetry on a wall. When one of the prisoners is released from the namesake locale, he will realize that objects themselves are more real than the shadows.

ANSWER: allegory of the cave

[10] In *The Republic*, Socrates outlines his theory of different levels of understanding of the world, such as images and true forms, using one of these geometrical constructs.

ANSWER: a divided line

[10] *The Republic* also discusses this object, which grants its bearer the power of invisibility, and questions whether the bearer would remain virtuous if they need not fear getting caught.

ANSWER: the ring of Gyges [prompt "ring."]



13. This quantity times a characteristic length divided by the kinematic viscosity gives the Reynolds number. For 10 points each:

[10] Name this quantity whose curl gives the vorticity. This quantity's profile in a pipe assumes a flatter shape in turbulent flow than in laminar flow.

ANSWER: fluid **velocity**

[10] In irrotational flow, the velocity can be described as the gradient of one of these scalar functions. Voltage is one of these functions, whose gradient is equal to minus the electric field.

ANSWER: scalar **potentials** [for the curious: this is why irrotational flow and potential flow are the same thing]

[10] For a two-dimensional flow, the velocity can be defined as the curl of this quantity. An individual particle in the fluid will follow a path where this quantity is constant.

ANSWER: **stream function** [I guess accept answers that mention "**stream lines**", prompt on "psi"]

14. Dying metaphors, pretentious diction, and meaningless words are held up as hallmarks of bad prose in this writer's essay "Politics and the English Language." For 10 points each:

[10] Name this author, whose other essays include "Inside the Whale."

ANSWER: George **Orwell** [or Eric Arthur **Blair**]

[10] This short Orwell essay examines the deeds of Dr. Crippen, Joseph Smith, and Palmer of Rugley to argue that they outclass the deeds of the Cleft Chin Killer. It asserts that Jack the Ripper is in a class of his own.

ANSWER: "The **Decline of the English Murder**"

[10] Orwell's essay "Good Bad Books" discusses books without literary merit that are still read, citing this anti-slavery book by Harriet Beecher Stowe as the perfect example.

ANSWER: **Uncle Tom's Cabin**

15. He was given the name "Beaumains" because of his beautiful hands. For 10 points each:

[10] Name this Arthurian hero who was the son of King Lot of Orkney and Morgause. This knight slew the Red Knight of the Red Lands, though he himself would die by Lancelot's hand.

ANSWER: Sir **Gareth** of Orkney

[10] Sir Gareth was killed by Lancelot while the latter was trying to rescue this queen, with whom Lancelot was carrying on a torrid love affair.

ANSWER: **Guinevere**

[10] One of Gareth's half-brothers was this knight, a traitor who fought against Arthur at the Battle of Camlan.

ANSWER: **Mordred**

16. Its final part discusses how the implementers of the title policy end up living in decadent gated communities, but the rest of the world is subject to increased unemployment. For 10 points each:

[10] Name this book by Naomi Klein which argues that the policies of Margaret Thatcher and other capitalists is akin to the namesake type of therapy.

ANSWER: *The* **Shock Doctrine**

[10] Klein's concept of the shock doctrine was inspired by this concept of Joseph Schumpeter, which implies that business cycles drive innovation and productivity.

ANSWER: **creative destruction**

[10] In *The Shock Doctrine*, Klein accuses this school of economics led by Milton Friedman of supporting laissez-faire policies that exacerbate the economic problems of South America and other parts of the world.

ANSWER: **Chicago** school of economics

17. For 10 points each, name these Indian authors.

[10] This author wrote “thou hast made me endless, such is thy pleasure” in the first poem of his song collection *Gitanjali*.

ANSWER: Rabindranath **Tagore**

[10] This contemporary Indian writer wrote *The Calcutta Chromosome* and the *Ibis Trilogy*, which includes *The Sea of Poppies* and *River of Smoke*, which portrays the flourishing world of India due to the poppy trade.

ANSWER: Amitav **Ghosh**

[10] This sage is the ascribed author of a work about a prince of Ayodhya that seeks out his love Sita - the epic poem *Ramayana*.

ANSWER: **Valmiki**

18. In mammals, shortly after this process occurs, rapid cell division without growth occurs, which is called cleavage. For 10 points each:

[10] Name this process where two sex cells are united to form a diploid zygote.

ANSWER: **fertilization**

[10] After cleavage the zygote becomes a Morula, and then a Blastula, and then finally enters a phase where it is called this name. When the embryo is referred to as this, it folds into itself and the three germ layers develop.

ANSWER: **gastrula** [or **gastrulation**]

[10] During gastrulation, this cavity forms, which eventually becomes the digestive tract. Its opening is called the blastopore.

ANSWER: **archenteron**

19. The last days of this man were described in a journal by Abacuk Pricket. For 10 points each:

[10] Name this English explorer who sailed under both the Dutch and English flags. He lends his name to a large bay in Canada, which in turn is the namesake of the oldest corporation in North America.

ANSWER: Henry **Hudson**

[10] From 1670, the Hudson's Bay Company controlled this Canadian territory, comprising most of the bay's drainage basin. It was absorbed into the Dominion of Canada in 1867.

ANSWER: Prince **Rupert's Land**

[10] The transfer of Rupert's Land to the direct control of the Dominion was one of the factors which led to the Red River Rebellion, which was led by this Métis politician.

ANSWER: Louis **Riel**

20. This Greek word, which simply means knowledge, refers to a concept in early Christianity that means “insight” or “vision.” For 10 points each:

[10] Name this Greek word that gives its name to a whole class of religious movements that includes Mandaism.

ANSWER: **gnosis**

[10] In the Renaissance, the concept of *gnosis* was integrated into this mystical religion of Judaism, whose main text is the *Zohar*.

ANSWER: **Kabbalah**

[10] Similar to Gnostic religions are these ancient Greco-Roman religions which includes a relatively unknown religion practiced on Samothrace. The Imperial cult is also considered one.

ANSWER: **mystery religions** [or sacred **mysteries**]