

**JAMES ROUND 12
TOSSUPS**

1. **This value changes upon application of an electric field in the Kerr effect. Metamaterials have a negative value for this quantity which gains a complex part to account for absorption in opaque materials. When this value depends upon the polarity of light, different values of it can occur in a single material in a property known as (*) birefringence.** The ratio of this quantity for two different materials is equal to the ratio of the angle of incidence and its namesake angle according to Snell's Law. For 10 points, name this ratio of the speed of light in a vacuum to the speed of a light in a given material.

ANSWER: index of refraction or refractive index (prompt on "n")

2. **Attempts to grant clemency to those convicted in connection with this event were opposed by Marshall Field. Two death sentences handed out after this event were commuted by Richard Oglesby. One man committed suicide using a cigar bomb after being put on trial for this event, while three other defendants were pardoned by Governor John Altgeld. Samuel (*) Fielden was the last speaker on the day of this event at a rally supporting the institution of the 8-hour workday at the McCormick Harvesting Machine Company plant.** For 10 points, name this 1886 Chicago riot which broke out when an unknown assailant threw a dynamite bomb at the police.

ANSWER: Haymarket Riot [accept Haymarket Massacre; Haymarket Square Riot; or Haymarket affair; or similar obvious knowledge equivalents]

3. **This figure asked a dwarf riddles until the sun rose and the dwarf turned to stone. Grid gave this god iron gloves, which this god used to catch a molten ingot and slay the giant Geirrod. The cowardly giant Hymir foiled one of this god's fishing missions. This god journeyed with Thialfi and Loki to visit (*) Utgard-Loki, who had this god attempt to drink from the sea, wrestle old age, and lift the paw of a large cat. This god's chariot is drawn by two goats, and he dressed as Freya to retrieve his most famous item, which can level mountains.** For 10 points, identify this son of Odin who wields Mjollnir and is a god of thunder.

ANSWER: Thor

4. **This body was attacked by the newspaper *The Old Cordelier*, which criticized it and another body governing "general security." This body was responsible for carrying out the Law of the Maximum, which set price limits. This body was described as "a hand to grasp the weapon of the (*) Revolutionary Tribunal." The National Convention created this body that was originally led by Georges Danton before he was ousted by the Jacobins, and it was disbanded by the Thermidorian Reaction. Maximilien Robespierre headed, for 10 points, what body that ordered many executions by guillotine during the Reign of Terror and the French Revolution?**

ANSWER: Committee of Public Safety [Comite de salut public; accept National Convention before "hand"]

5. **The Eastern Orthodox church divides this book of the Bible into twenty kathismas, and some sections of this book contain acrostics, in which each verse begins with a different letter. One section of this book was written after a man escaped from King Abimelech by pretending to be insane; that man is credited with writing half of this book, including one part for his son (*) Solomon. The most famous part of this book speaks of walking through "the valley of the shadow of death" and declares that "thy rod and thy staff they comfort me."** For 10 points, name this Biblical book of 150 poems, the 23rd of which is credited to David and declares that "The Lord is my shepherd."

ANSWER: Psalms

6. **This character tells of two Russians who threw a newlywed couple to a pack of hungry wolves in order to escape. After this character leaves the service of the Harling family, she works for the wicked moneylender Wick Cutter, who attempts to molest her. This character's father plays the (*) violin and commits suicide. This character is made pregnant and abandoned by Larry Donovan, though she eventually has a happy marriage with Anton Cuzak after moving back to Black Hawk, Nebraska. She is friends with Jim Burden. For 10 points, what Bohemian immigrant and member of the Shimerda family titles a Willa Cather work?**

ANSWER: Antonia Shimerda [accept Antonia Cuzak; prompt Shimerda and Cuzak before mention; grudgingly accept My Antonia]

7. **The murder of domesticated pigeons in this country by British officers caused the Denshawai incident. A recently deposed leader of this country was opposed by the *kefaya*. In this country, the Wafd Party was deposed in a 1951 coup that ultimately overthrew King Farouk. Muhammad Naguib led the (*) Free Officers Movement in this country. A leader of this country shared the 1978 Nobel Peace Prize with Menachem Begin for agreeing to the Camp David Accords. Great Britain invaded this country in 1956 after it nationalized the Suez Canal. For 10 points, name this North African country once led by Anwar Sadat, Gamal Abdel Nasser and Hosni Mubarak.**

ANSWER: Arab Republic of Egypt

8. **This man asked "Am not I / A fly like thee?" in the poem "The Fly." He described "dark Satanic mills" in a poem that begins "And did those feet in ancient time"; that poem prefaces this man's epic "Milton a Poem." This poet called the title orphan "a little black thing in the snow" in his poem "The (*) Chimney Sweeper" while in another poem he repeatedly asks the title animal "Dost thou know who made thee?" This poet matched his poem "The Lamb" with a poem in which the title animal is "burning bright / in the forests of the night." For 10 points, whose collection *Songs of Innocence and Experience* contains the poem "The Tyger?"**

ANSWER: William Blake

9. **Since 1988, Richard Lenski has observed the evolution of this organism in the laboratory, and members of the genus *Shigella* are very closely related to this organism. The MM294 strain of this bacterium is commonly transformed to be resistant to antibiotics such as ampicillin and kanamycin. Notable genes in this bacterium encode (*) lactose permease and beta-galactosidase, which help break down lactose to glucose and galactose, and Alfred Hershey and Martha Chase famously infected this organism with T2 bacteriophages. The *lac* operon is present in, for 10 points, what model organism that is found in animal intestines and can cause food poisoning?**

ANSWER: Escherichia coli

10. **This composer wrote a set of sonatas and partitas for solo violin. The title of nine suites by the Brazilian Heitor Villa-Lobos references this composer who inspired Charles Gounod's *Ave Maria* with the first of a set of pieces in all 24 major and minor keys. This man wrote an oratorio based on a gospel titled the (*) *St Matthew Passion*. This composer supposedly created a set of pieces to help Count Kaiserling sleep, and a set of his pieces is titled after a German city. For 10 points, name this Baroque composer of *The Well-Tempered Clavier*, the *Goldberg Variations*, a Mass in B Minor, and the *Brandenburg Concertos*.**

ANSWER: Johann Sebastian Bach (prompt on Bach)

11. **One holder of this title fought the Ridda wars against rebels charged with having committed apostasy. After the assassination of one man with this title, Muawiyah I fought against another holder of this title in the First Fitna. An early holder of this title was Umar, although one tradition holds the (*) Imams should have held it instead. The rulers of the Fatimid dynasty held this title, as did the Rashidun, who included men like Abu Bakr. After the death of Ali, this title passed on to the rulers of the Umayyad Dynasty. For 10 points, there were four "Rightly Guided" holders of what title generally referring to the ruler of the Islamic world?**

ANSWER: caliphate (accept Rightly Guided Caliphs before "Fatimid" is read)

12. **One politician from this state made his use of a GMC pickup truck a major part of his first Senate campaign. Politicians from this state include Mo Cowan and Martha Coakley. Another politician from this state faced criticism for representing herself as Native American, and had helped to create the (*) Consumer Financial Protection Bureau. The first gay man in Congress was from this state, and names a law with Chris Dodd; that man is Barney Frank. After earlier winning a special election here, Scott Brown was defeated in the most expensive Senate race of 2012 in this state. For 10 points, name this home state of Secretary of State John Kerry and Senator Elizabeth Warren.**

ANSWER: Massachusetts (or MA)

13. **Plasmogamy and karyogamy are important components of this process in fungi. While most animals undergo this process, bdelloids have evolved to exclusively undergo parthenogenesis instead. Muller's ratchet and the Red Queen hypothesis explain the advantages of this process, which is facilitated by (*) pheromones in animals and involves pollination in plants. This type of reproduction results in a greater variety of genetic diversity, and it features fertilization and the production of gametes during meiosis. For 10 points, name this type of reproduction used by humans, which is contrasted with asexual reproduction.**

ANSWER: Sexual reproduction (Accept sex or clear equivalents such as mating; prompt on reproduction or variants thereof before it is mentioned)

14. This work contains a simile comparing the builders of a city to bees, and one character in this work is thrown across a river while tied to a spear; that character is Camilla. This work describes how Sinon convinces the Greeks to accept the Trojan Horse. This work opens "I sing of arms and the man" and ends with the death of the (*) Rutulian Turnus, leaving the way open for the protagonist to become king of Latium; that protagonist had earlier fled the destruction of Troy and caused Dido to commit suicide. For 10 points, name this work about the title son of Anchises and Venus and ancestor of the Romans, an epic written by Vergil.

ANSWER: Aeneid

15. One work of this type shows a skeleton giving birth and is located in the Baker Library at Dartmouth; that work is the *The Epic of American Civilization*. Images of germs and the galaxies form an X shape in a work of this type which also depicts a hand clutching an orb. A work of this type depicting a (*) "Controller of the Universe" was a recreation of one commissioned by Nelson Rockefeller depicting Vladimir Lenin which was titled *Man at the Crossroads*. Works of this type were done by José Orozco and a husband of Frida Kahlo, the Mexican Diego Rivera. For 10 points, name these paintings done directly on a ceiling or wall.

ANSWER: murals (or muralism and word forms; prompt on "painting"; accept frescoes)

16. Measurements of this value taken with a setup including calomel can be used to determine pH, and the Weston cell is the standard for measurement of this value. It is equal to negative the change in Gibbs free energy divided by Faraday's constant times "n", and it can be found at non-standard conditions using the (*) Nernst equation. Values of the same type for the half-reactions that make up a cell are added to find this quantity, the value of which is often marked on batteries. For 10 points, identify this measure of the electromotive force output of a galvanic cell, often denoted E sub cell.

ANSWER: electrochemical cell potential [accept electrochemical cell voltage, accept electrode or reduction potential, accept equivalents like voltage of an electrochemical cell; prompt on E or V; accept "pH" before it is read]

17. A rain god comes to life in one of this man's stories and drowns Filiberto in this author's short story "The Chac-mool." A fetus born on the 500th anniversary of Columbus's discovery of America narrates this author's novel *Christopher Unborn*, which precedes a novel by this man in which the schoolteacher (*) Harriet Winslow and General Arroyo appear. A loveless marriage with Catalina is remembered by the protagonist, a wealthy tycoon, on his deathbed in this author's most famous work. For 10 points, what Mexican author fictionalized the death of Ambrose Bierce in *The Old Gringo* and wrote *The Death of Artemio Cruz*?

ANSWER: Carlos Fuentes

18. This artist painted the opposing directions two ducks face after they are shot just taking flight in the work *Right and Left*. He based his *Prisoners from the Front* on his sketches of the Civil War, while his most famous works were painted while living in Prouts Neck, Maine. A series of boys joined in a line on the prairie play a game in this artist's (*) *Snap the Whip*. He showed a man and four boys sailing in fair weather in Gloucester in his *Breezing Up*, while his most famous painting depicts a black man alone in a stranded boat surrounded by sharks. For 10 points, name this American artist of *The Gulf Stream*.

ANSWER: Winslow Homer

19. This river traces its headwaters to the La Poudre Pass. At Glenwood Canyon, the Hanging Lake flows into this river, and the canal joining this river and Lake Havasu is spanned by the 1831 London Bridge. Cities along this river include Moab and Yuma, where the Gila River flows into this river. The All-American Canal is used to irrigate the Imperial Valley with waters from this river upon which (*) Lake Mead was created after the Hoover Dam was built. This river forms the boundary between Baja California and Sonora before emptying into the Gulf of California. For 10 points, name this river on which the Grand Canyon lies.

ANSWER: Colorado River

20. This man studied the mental maps of residents of New York and Paris. In one of this psychologist's breaching experiments, subway riders were asked to give up their seats and in another study, objects marked for the Friends of the Nazi Party were mailed with low frequency. This conductor of the (*) lost letter

experiment used a mailing campaign to study the six degrees of separation in the Small World experiment, while in this psychologist's most famous experiment, experimenters said "you must go on" as actors faked pained noises and collapsing. For 10 points, what Yale psychologist conducted a namesake experiment in which most participants were willing to administer fatal electric shocks?

ANSWER: Stanley Milgram

TIEBREAKER/REPLACEMENT TOSSUPS

21. During this conflict one side's ships fired upon English fishing boats in the Dogger Bank incident, which nearly caused Great Britain's entry into this war. General von Kaulbars led the right flank for one side in this war at the Battle of Mukden. One of the losing side's fleets in this war was blockaded and captured at (*) Port Arthur. That country's Baltic fleet was destroyed when its T was crossed by Admiral Togo at Tsushima Straits in this war. Theodore Roosevelt won the Nobel Peace Prize for negotiating the Treaty of Portsmouth, which ended this war. For ten points, name this East Asia war, fought between the world's largest country and an Asian island.

ANSWER: Russo-Japanese War

22. In one of this author's stories, a Hawaiian named Keawe purchases an object that must be sold for less than was paid for it. This author of "The Bottle Imp" wrote about the murder of Danvers Carew in a novel in which the lawyer Gabriel Utterson investigates the title characters. This man wrote a novel where (*) Ben Gunn has been abandoned on the title feature. That work begins with the lodger Billy Bones being given the "black spot," and sees Jim Hawkins set sail with Long John Silver to find Captain Flint's loot. For 10 points, name this author of *The Curious Case of Dr. Jekyll and Mr. Hyde* and *Treasure Island*.

ANSWER: Robert Louis Stevenson

BONUSES

1. This effect was demonstrated in China in 2011 after the two year old Wang Yue was hit by a van and truck in the street yet ignored by 18 people. For 10 points:

[10] Name this effect in which the title people fail to give help in an emergency. As the number of people present increases its strength also increases.

ANSWER: **bystander** effect

[10] The bystander effect is sometimes also named for this woman who was murdered while returning to her Queens home. The media account of 38 witnesses who failed to help may have been exaggerated.

ANSWER: Catherine Susan "Kitty" **Genovese** [accept **Genovese** syndrome]

[10] The bystander effect is largely due to this other effect in which those present expect others to help while at the same time giving up their roles as individuals.

ANSWER: **diffusion of responsibility**

2. This man composed the short and lyrical *Songs Without Words*. For 10 points each:

[10] Name this composer of the Italian and Scottish Symphonies, as well as incidental music for *A Midsummer Night's Dream* that includes a famous wedding march.

ANSWER: Felix **Mendelssohn**-Barholdy

[10] This overture was composed on the same trip as the Scottish Symphony and ends with a depiction of rolling waves. Its original title was *The Lonely Island*, and it is sometimes titled Fingal's Cave.

ANSWER: The **Hebrides** Overture, Opus 26

[10] This other Mendelssohn composition was distinctive for having the soloist start the piece and for having a written-in cadenza. That cadenza is followed by a long section where the soloist plays ricochet arpeggios as an accompaniment to the orchestra.

ANSWER: **Violin Concerto** in E minor or Mendelssohn's **Violin Concerto**

3. For 10 points each, answer some questions about a block on an inclined plane:

[10] The force on the block down the plane is equal to the sine of the angle of the plane times this force. It is equal to the mass of the block times the acceleration of gravity. Scales measure this property, which, unlike mass, is different when measured on the moon.

ANSWER: **weight**

[10] This contact force is equal to the weight times the cosine of the angle of the plane. It is perpendicular to the surface of contact.

ANSWER: **normal** force (accept **N** or F sub **N**)

[10] [Note to moderator: read this part slowly] Assuming the ramp is frictionless, the speed of the block is measured after it slides from the top of the ramp to the bottom. If the same process is repeated with double the mass, by what factor does the speed change?

ANSWER: **one** or **1** (accept answers along the lines of "it stays the same" or "it doesn't change")

4. The title character frequently makes use of a bakkie in this book. For 10 points each:

[10] Name this South African novel by Nadine Gordimer in which the white Smales family flees Johannesburg for the village of their servant.

ANSWER: **July's People**

[10] In Gordimer's novel *Burger's Daughter*, Rosa Burger's parents are members of the South African version of a party with this political ideology. In *Animal Farm*, the pigs Snowball and Napoleon are based on real people from a party with this ideology.

ANSWER: **Communism** (accept word forms; prompt on "socialism" and word forms)

[10] This other South African writer was the playwright of *Master Harold...and the Boys*, which is about Hally and his servants Sam and Willie.

ANSWER: Athol **Fugard**

5. For 10 points each, answer some questions about the various conquests of the Khans not named Genghis:

[10] This Khan established the Yuan Dynasty after conquering the Song Dynasty of China.

ANSWER: **Kublai** Khan

[10] In 1258, Hulaghu Khan led a siege of this city, during which Al-Mutasim was apocryphally rolled in a carpet and trampled to death and the rivers ran black with the ink of books flung into them.

ANSWER: **Baghdad**

[10] He wasn't a Khan descended from Genghis, but this man tried to be the next Genghis. This conqueror of various Khanates and much of the Golden Horde derived the epithet of being "lame" from an early arrow injury.

ANSWER: **Tamerlane** or **Timur** the Lame

6. New England is composed of six states. For 10 points each:

[10] Name this state, with capital Boston, that is home to Harvard University.

ANSWER: **Massachusetts**

[10] This only national park in Maine contains the Somes Sound and much of Mount Desert Island.

ANSWER: **Acadia** National Park

[10] Somewhat consistent with the name New England, this Connecticut city is home to the United States Coast Guard Academy.

ANSWER: **New London**

7. A buret is often used in these chemical procedures. For 10 points each:

[10] Identify this type of chemical procedure, often used to find unknown concentrations, the results of which can be viewed on a similarly-named curve. It is most often used with acid-base reactions.

ANSWER: **titration** (or **titrimetry** or **volumetric analysis**)

[10] The point in a titration at which enough titrant has been added to react completely with the analyte is given this name. It is the inflection point of the curve, and for titrations of a strong acid with a strong base the pH at this point is approximately 7.

ANSWER: **equivalence** point (or **stoichiometric** point)

[10] The pH halfway to the equivalence point has this value in a titration of a weak base with a strong acid titrant. This value is also the pOH of a buffer with equal concentrations of acid and conjugate base.

ANSWER: **pKb** (or **power** of the **equilibrium base** constant)

8. For 10 points each, answer some questions about the progression of science:

[10] This technique involves the proposal of a hypothesis and rigorous testing by experiment. It was advocated by Francis Bacon in his *Novum Organum*.

ANSWER: **scientific method**

[10] This man is best known for his work on a maxim also known as the law of parsimony which suggests that when developing a hypothesis the simplest solution is the most likely.

ANSWER: William of **Ockham** (accept **Ockham's** Razor)

[10] This man's book *The Structure of Scientific Revolutions* described scientific change in terms of "paradigm shifts" that shook up established theories. Examples include the Copernican Revolution and the development of germ theory.

ANSWER: Thomas **Kuhn**

9. For 10 points each, name some London landmarks where historical events occurred.

[10] William the Conqueror constructed this fort in 1078. The sons of Edward IV were killed at this location, and many were placed here before their execution.

ANSWER: **Tower** of **London** [accept **Her Majesty's Royal Palace and Fortress**]

[10] Crowds amassed in this square, which was redesigned by Charles Barry and features Nelson's Column, to hear the official announcement of VE Day. This square used to be home to many pigeons.

ANSWER: **Trafalgar** Square

[10] In 1981, rioting broke out in this poor district of London. A district of Lambeth, 25% of its population are of African or Caribbean descent.

ANSWER: **Brixton**

10. For 10 points each, name these Symbolists:

[10] This teenage poet engaged in an affair with another Symbolist, Paul Verlaine, and wrote works like "The Drunken Boat" and "A Season in Hell."

ANSWER: Jean Nicolas Arthur **Rimbaud**

[10] This poet addressed a poem "To the Reader" in the foreword of his collection *The Flowers of Evil*, which contained sections like "Spleen and Ideal" and "Revolt."

ANSWER: Charles Pieere **Baudelaire**

[10] While not strictly a Symbolist, this American's macabre themes greatly inspired them. Baudelaire translated many of this man's works, like "The Raven" and "The Fall of the House of Usher."

ANSWER: Edgar Allan **Poe**

11. Answer some questions about the 1993 Nobel Prize in Physics, for 10 points each:

[10] The winners, Russel Hulse and Joseph Taylor, Jr., won the prize for their observations of these vibrations in their namesake field, predicted by general relativity.

ANSWER: **gravitational waves** [grudgingly accept **gravity waves**]

[10] Hulse and Taylor provided evidence for the existence of gravitational waves through observations of the orbital decay of a binary system containing one of these astronomical objects, rapidly rotating magnetized neutron stars.

ANSWER: **pulsars**

[10] Pulsars' periodic clicks can be explained by this model, in which the magnetic axis rotates about a different axis and flashes in Earth's direction once per period.

ANSWER: **lighthouse** model

12. For 10 points each, name the deity depicted in ancient Greek sculpture:

[10] Praxiteles created "Sauroktonos" and "Lyceus" sculptures of this god, both of which depict him resting on a tree.

ANSWER: **Apollo**

[10] A sculpture of this figure "of Samothrace" has lost its head and arms, but retains the wings bursting from behind it.

ANSWER: Winged **Victory** or **Nike**

[10] Phidias created a chryselephantine sculpture of this goddess for the Parthenon on the Acropolis in her namesake city.

ANSWER: **Athena** (do not accept or prompt on "Minerva")

13. This play begins with a certain Thane of Cawdor encountering some witches. For 10 points each:

[10] Name this Shakespeare play about a Scottish nobleman who kills King Duncan at his wife's bequest. At one point the title character encounters three witches.

ANSWER: *The Tragedy of* **Macbeth**

[10] After the witches tell Macbeth that this man will sire kings, Macbeth attempts to kill him and his son, Fleance. His ghost revisits Macbeth during a feast.

ANSWER: **Banquo**

[10] This author wrote about a scene of Macbeth in "On the Knocking At the Gate In Macbeth." His most famous work is *Confessions of an English Opium-Eater*.

ANSWER: Thomas **de Quincey**

14. Protein structure is important! Answer some questions about it, for 10 points each:

[10] The primary structure of proteins consists of a polypeptide chain of these compounds, which are distinguished by their R groups. Examples include alanine, proline, and tryptophan.

ANSWER: **amino acids**

[10] This amino acid has a thiol as its R group. In some proteins, it forms disulfide bonds, which contribute to the tertiary structure of the protein.

ANSWER: **cysteine**

[10] This common secondary structure motif has hydrogen bonds every fourth amino acid and is almost always right-handed. It is contrasted with beta sheets.

ANSWER: **alpha helix**

15. How well do you pay attention to the thriving scene of classical performers? For 10 points each:

[10] Notable performers for this instrument include Arthur Rubinstein and Glenn Gould, the latter of whom is often criticized for humming along while playing.

ANSWER: **piano**forte

[10] This French-born American cellist with Chinese ancestry, in addition to performing classically, also leads the Silk Road Ensemble, as well as playing traditional Chinese melodies.

ANSWER: Yo-yo **Ma**

[10] This Israeli violinist plays on the Soil Stradivarius, and has to play sitting down due to the polio he contracted at age 4. He played John William's "Air and Simple Gifts" in a string quartet with Yo-yo Ma at Obama's 2009 inauguration.

ANSWER: Itzhak **Perlman**

16. For 10 points each, name these video games we've been waiting a long time for:

[10] This title became for a long time the most infamous example of vaporware, with its previous "3D" installation coming out in 1996. It was finally released in 2011, allowing its muscle-toting, bubblegum chewing action figure to see the light of day once again.

ANSWER: **Duke Nukem Forever**

[10] After Episode 2 of the second installment in this series came out, the lack of any information about the next installment featuring Gordon Freeman helped lead to a joke that Valve can't count to three.

ANSWER: **Half-Life**

[10] The sequel to this 2003 Ubisoft title was delayed by lead designer Michel Ancel's taking time off to work on *Rayman Origins*. The latest teaser video shows its characters Jade and Pey'j stranded on a road.

ANSWER: **Beyond Good & Evil**

17. For 10 points each, answer the following about the Yugoslav breakup.

[10] This Yugoslav leader, who was regarded as the main binding force of Yugoslavia, died in 1980, increasing ethnic tension. This man helped co-found the Non-Aligned Movement.

ANSWER: Josip Broz **Tito**

[10] Yugoslavia contained many ethnic groups, including these Muslim Slavic people from a country bordering Croatia, Serbia, and Montenegro.

ANSWER: **Bosniaks** [prompt on **Bosnians**]

[10] This last dictator of Yugoslavia and first president of Serbia and Montenegro is widely held responsible for the war crimes that took place during the Balkan Wars. He died in a prison cell in The Hague following an international tribunal.

ANSWER: **Slobodan Milosevic** ["Mil-o-se-vich"] [accept either bold part]

18. This man gave the "Cornerstone speech", which indicated his belief that "the negro is not equal to the white man." For 10 points each:

[10] Name this Georgian politician who served as Vice President of the Confederate States of America.

ANSWER: Alexander Hamilton **Stevens**

[10] Stevens served under this Confederate President, a Mississippian who had earlier served as Franklin Pierce's Secretary of War.

ANSWER: Jefferson **Davis**

[10] While president of the CSA, Jefferson Davis dealt with a series of riots over this commodity, which, along with circuses, was needed to placate the masses according to Juvenal.

ANSWER: **bread**

19. She wrote a novel about the title sex-changing Elizabethan in the novel *Orlando*. For 10 points each:

[10] Name this British author of *Jacob's Room* and *Between the Acts*, as well as the feminist manifesto *A Room of One's Own*.

ANSWER: Adeline Virginia **Woolf**

[10] In this Virginia Woolf novel, the title character learns of Septimus Smith's suicide at a party she is hosting.

ANSWER: **Mrs. Dalloway**

[10] Woolf wrote a novel about the relationship between Robert and Elizabeth Browning told from the point of view of Flush, one of these creatures.

ANSWER: **dog** (accept **canine**, **doggy**, and other reasonable answers; "cat" is not a reasonable answer)

20. For 10 points each, name these members of the Argonauts:

[10] This leader of the Argonauts began the expedition after being made to find the Golden Fleece by the usurping king Pelias.

ANSWER: **Jason**

[10] These hero twins were children of Leda. They were called the Dioscuri in Greek and the Gemini in Latin.

ANSWER: **Castor and Pollux** (prompt on partial; accept **Polydeuces** in place of Pollux)

[10] These two siblings were the sons of Boreas and Oreithyia. They could fly and helped rescue Phineas from the torment of the Harpies. Name either.

ANSWER: Zetes or Calais (prompt on "Boreads")

TIEBREAKER/REPLACEMENT BONUSSES

21. This man wrote the collection of short stories *Evenings on a Farm Near Dikanka*, which is partially narrated by Rudy Panko. For 10 points each:

[10] Name this Russian author who contrasted the characters Piskaryov and Lieutenant Pirogov in the short story "Nevsky Prospekt."

ANSWER: Nikolai Gogol

[10] Gogol is best known for this short story in which Akaky Akakievich saves up enough to buy the title piece of clothing, only to have it stolen.

ANSWER: "The Overcoat" (or "Shinel")

[10] In Gogol's novel *Dead Souls*, Chichikov attempts a get-rich-quick scheme by buying the rights to these peasants who worked land in the feudal system. They were emancipated in Russia by Alexander II.

ANSWER: serfs

22. Answer some questions about computer images, for 10 points each:

[10] These properties of images are commonly defined using the RGB format, or red-green-blue. CMYK, or cyan-magenta-yellow-key, is another format.

ANSWER: colors

[10] For RGB, the component of each color can be given as an integer on a scale from 0 to this number. This number is equal to FF in hexadecimal.

ANSWER: 255

[10] In contrast to bitmap and raster images, these types of images, commonly used for icons, aren't defined by pixels, but by shapes and gradients, which allows them to scale better. In C++, this is another name for a one-dimensional array.

ANSWER: vector graphics