

Valencia Delta Burke Invitational 2013
Round 2

1. A fictional executive of this company, Raymond Geiger, disliked the "bean ballet" pitch. Carly Simon's song "Anticipation" was used in commercials for a product made by this company. Bagel Bites and Ore-Ida are brands owned by this company, which 3G Capital and Berkshire Hathaway recently acquired. This company's namesake was nicknamed the Pickle King, and John Kerry's current wife is an heiress to it. This company names the "field" where the Pittsburgh Steelers play home games. For 10 points, name this company whose "57 Varieties" include ketchup.

ANSWER: Heinz

2. One of these events in 1944 saw the urging of guarantees of medical care, education, and housing as part of a so-called "Second Bill of Rights." In 1996 many were surprised to hear its presenter say that "the era of big government is over." The 2010 one of these saw Samuel Alito emphatically shake his head and mouth "not true" after a criticism of the Citizens United decision was made, while at its 2009 iteration congressman Joe Wilson boorishly yelled out to the speaker, "You lie!" Generally made in January or early February, FTP what is this address to a joint session of Congress made by the president of the US?

ANSWER: State of the Union Address

3. A 1955 novel by an author from this country sees the protagonist travel to Comala, which he finds to be inhabited by ghosts of those who starved when his father chose to quit working. Juan Rulfo's novel *Pedro Paramo* joins this other novel by an author from this country in which the title figure remembers his son who died in the Spanish Civil War while reminiscing about his life as a leader of the PRI [pree] political party. The author of *The Death of Artemio Cruz*, Carlos Fuentes, was from this country which has produced one literature Nobel winner, the author of *The Labyrinth of Solitude*. FTP Octavio Paz described "The Sons of La Malinche" and "The Day of the Dead" festival in what North American nation?

ANSWER: Mexico

4. The poly-crystalline form of this element is made by the Siemens process. Berzelius discovered this element by heating its tetra-fluoride with potassium metal. A common reference compound for proton NMR contains four methyl groups surrounded by one atom of this element. Found directly below carbon on the periodic table, this element is the second most abundant in Earth's crust. The mineral quartz is composed of oxygen and this element. For 10 points, name this chemical element that names a valley in California home to many companies in the semiconductor industry.

ANSWER: silicon [prompt on "Si"]

5. This artist of *Man-Tree* depicted peasants getting busy in a door frame behind a haggard man in *The Wayfarer*. He painted a crucifix in some ruins behind a column and a fish wearing a saddle in his *Temptation of St. Anthony*. A crowd of people gape at a table with cups and balls in his *The Conjuror*, while a man wearing a funnel on his head performs the titular operation in *Extraction of the Stone of Madness*. A tree provides the mast of a boat in *The Ship of Fools* by this artist more famous for painting a pig in a nun's habit in a famous triptych. FTP name this painter of *The Garden of Earthly Delights*.

ANSWER: Hieronymous Bosch

6. In this novel, a mock funeral held for Matt Bonner's mule turns into a late-night drinking party. The protagonist's second husband beats her after she calls him impotent in front of the other men in the store which he owns; she had left her previous husband, Logan Killicks, for that man, Jody Starks. Later the protagonist has a job picking cabbage on the southern shore of Lake Okechobee, where during a flood after a hurricane her lover is bitten by a rabid dog. This describes, FTP, what novel in which Janey Crawford eventually has to shoot Tea Cake, the best-known work of Zora Neale Hurston?

ANSWER: *Their Eyes Were Watching God*

7. This thinker described living and eating as value judgments in a work that distinguishes between the "age of negation" and the "age of ideologies". This author of the essay *The Rebel* wrote another essay that discusses the "nostalgia for unity" as a reaction to absurdity and defines the essential question of philosophy as "Should I kill myself?" He also wrote a novel that opens in the bar Mexico City in Amsterdam, where a stranger is given drink-ordering advice from "judge-penitent" Jean-Baptiste Clamance. This author of *The Myth of Sisyphus* and *The Fall* wrote a novel in which an Arab is killed by Meursault. For 10 points, name this author of *The Stranger*.

ANSWER: Albert Camus

8. The work of Zellig Harris in this field was instrumental in the founding of its generative school. One theory in this field defines the conative, phatic, and referential functions. Nikolai Trubetzkoy and Roman Jakobson led a school in Prague that studied this field. The early evolution of this field drew on the signifier-signified model of the sign developed by Ferdinand de Saussure. Its subfields include morphology and phonology. The primary goal of this field was described by *Syntactic Structures* author Noam Chomsky as the development of a set of rules known as a Universal Grammar. For 10 points, name this field, the study of human language.

ANSWER: linguistics

9. The negative type of this phenomenon can be found in left-handed materials whose permittivity and permeability are both less than zero. Birefringence is sometimes known as the "double" type of this phenomenon. Its namesake law, which is often written as $n_1 \sin \theta_1 = n_2 \sin \theta_2$, is better known as Snell's law. For 10 points, name this phenomenon in which a wave changes direction as it passes from one medium to another.

ANSWER: refraction

10. One of these characters is a servant of the Citizen and his Wife named Rafe who encounters the giant barber Barbaroso. That figure appears with "Burning Pestle" in the title of a Francis Beaumont play. Another of these characters tells the story of the fight over Emily between Arcite and Palamon. A character of this type meets Bertilak de Hautdesert and engages in a beheading contest with him. A man who believes he is one of these characters searches for Dulcinea while riding Rocinante. That friend of Sancho Panza tilts at windmills. For 10 points, name these characters, whose ranks include the teller of a Canterbury Tale, Sir Gawain and Don Quixote.

ANSWER: knights [accept grocer before "Burning Pestle"]

11. In Chinese myth, the sun was said to rise from one of these called Fusang in the east and to set by one called Ruomu in the west. Jason was told by a talking one of these in Dodona to build the Argo. After Muhammed had a pulpit built from which to preach, one of these by which he used to stand began to weep. After death, because of their generosity to the disguised Zeus and Hermes, the old couple Baucis and Philemon were transformed into two of these intertwining. Inhabited by Dryads in Greek myth, FTP what are these entities, one of which in Norse myth is inhabited by the squirrel Ratatosk and is called Yggdrasil?

ANSWER: trees [accept specific types, such as oak trees]

12. The requirement for “actual malice” to be shown in a libel suit against a media outlet was established in a 1964 case which began when this entity published a full-page ad titled “Heed Their Rising Voices.” Besides winning that lawsuit versus Sullivan, this company successfully sued the United States to gain the right to publish the Pentagon Papers with the Washington Post. Owned for over a century by the Ochs-Sulzburger family is, FTP, what newspaper which claims to present “All the news that’s fit to print,” based in Manhattan.

ANSWER: New York Times

13. In plants, this compound is made from particles that constitute a hexagonal rosette. The extraction of this compound occurs in both the sulfite and kraft processes. In a Western blot, proteins are transferred to a membrane composed of the nitric acid ester of this compound. The viscose process makes rayon from this polysaccharide, which consists of glucose molecules linked by beta glycosidic bonds. For 10 points, name this main constituent of the cell walls of plants.

ANSWER: cellulose

14. This desert is home to a namesake bear, the only bear species endemic to a desert region. The Khongoryn Els are home to this desert’s “singing dunes,” though sand dunes are rare in its mostly rocky expanse. Though it’s arid, snow does fall here, due to this desert’s situation on a plateau over 2500 meters high and its northerly latitude. Bordered on the southwest by the Tien Shan mountains, FTP what is this desert lying mostly in northern China and Mongolia?

ANSWER: Gobi Desert

15. In one short story by this author, Robin faces many obstacles while trying to find his cousin, whom he eventually sees being tarred and feathered. In another story by this author, Colonel Killigrew fights with Medbourne and Gascoigne over the now-young Widow Wycherly after drinking water from the fountain of youth provided by the title physician. This author of “My Kinsman, Major Molineaux” and “Dr. Heidegger’s Experiment” wrote about Parson Hooper, who believes he is hiding the mark of sin on his face behind the title object in the story “The Minister’s Black Veil.” FTP who also wrote of the title character allegorically losing his wife Faith after seeing a demonic convocation in the woods in “Young Goodman Brown”?

ANSWER: Nathaniel Hawthorne

16. One work by this composer was written for cellist Wilhelm Fitzenhagen and includes seven variations on a rococo theme. One opera by this man includes a famous "letter scene" in which Tatyana writes to the title character, who kills Lensky in a duel. This composer of *Eugene Onegin* used the celesta to depict the "Dance of the Sugar Plum Fairy" in a work in which the title object leads an army of gingerbread soldiers. For 10 points, name this Russian composer of the ballets *Swan Lake* and *The Nutcracker*.

ANSWER: Pyotr Ilyich Tchaikovsky [*chahy-KAWF-skee*]

17. This man's claim to the throne was challenged by the imposter Gaumata, who claimed to be Bardiya, the brother of a deceased sovereign. This ruler's war against the Scythians is described on the fifth column of the trilingual Behistun Inscription. This man served as lance-bearer for his predecessor Cambyses II, and word of this ruler's loss at one battle was carried to his enemy's capital by the messenger Pheidippides. Aristagoras incited Ionia into rebellion against this leader, whose troops under Datis were defeated by Miltiades at the Battle of Marathon. FTP, name this Persian ruler who was succeeded by Xerxes the Great.

ANSWER: Darius the Great (or Darius I)

18. The "mudang," or shamans, of this country are predominantly women, and some rites in that tradition connect to this country's mythical founder, Tan'gun. Cheondoism was an indigenous religion of this country that peaked in popularity in the mid-20th century. A Christian offshoot was founded in this country in 1954 by a man who claimed to be the second coming of Christ and who installed himself as "King of America" at a 2001 ceremony. That man's church from this country was famous for its mass weddings. FTP the Unification Church, aka the "Moonies," was founded by Sun Myung Moon in what country?

ANSWER: (North or South) Korea

19. This author wrote a novel in which the protagonist is thanked for making the Widow Nazaret a whore and later conducts a four month affair with Barbara Lynch. This author wrote a novel in which a character who is constantly swarmed by yellow butterflies, Mauricio, is shot and paralyzed while attempting to conduct an affair with Meme. He wrote a novel in which Juvenal Urbino's death allows Fermina Daza to reunite with Florentino Ariza and one which chronicles the lives of Jose Arcadio, Colonel Aureliano, and the rest of the Buendia family in Macondo. For 10 points, name this author of *Love in the Time of Cholera* and *One Hundred Years of Solitude*.

ANSWER: Gabriel Garcia Marquez

20. The maximum possible volume for the geometric figure known as Gabriel's Horn is this quantity. The square root of two divided by two is the first product of an infinite sequence of terms named for Viete [*vee-ET*] that expresses this quantity. The value of the Riemann zeta function at two is equal to this quantity squared divided by six. The period of the tangent function is equal to this quantity. The number e raised to the product of i and this quantity is equal to negative one. For 10 points, name this transcendental number, the ratio of a circle's circumference to its diameter.

ANSWER: pi

Delta Burke 2013
Round 2 Bonuses

1. This man married Amytis, the daughter of the Median King, and Saddam Hussein considered himself the reincarnation of this ruler. FTPE:

[10] Name this Chaldean emperor whose conquest of Jerusalem is depicted in the Book of Daniel.

ANSWER: Nebuchadnezzar II (This is DB, don't sweat the number here)

[10] Nebuchadnezzar ruled from this city where he built its famous "Hanging Gardens." Earlier this city had been the capital of an empire ruled by Hammurabi.

ANSWER: Babylon (don't accept "Babylonia" because it's a region, not a city)

[10] Nebuchadnezzar soundly defeated allied Assyrian and Egyptian forces led by Necho II at this 605 BC battle that helped Babylon become the premier power in Mesopotamia.

ANSWER: Battle of Carchemish

2. Answer some things about a twice-born god, FTPE:

[10] That epithet was achieved after this deity was born from the thigh of his father, Zeus, after the untimely incineration of his mother, Semele.

ANSWER: Dionysus [grudgingly accept Bacchus]

[10] In one tale, Dionysus eludes being kidnapped by pirates after transforming his would-be abductors into these aquatic mammals.

ANSWER: dolphins

[10] This is the pine cone-topped staff commonly associated with Dionysus and his followers.

ANSWER: thyrsus

3. Named for its appearance near Christmas, this phenomenon is characterized by warm ocean temperatures in the eastern Pacific Ocean, but a decrease in hurricanes in the Atlantic. FTPE:

[10] Name this weather phenomenon that occurs more frequently than La Nina [*la NEEN-yah*].

ANSWER: El Nino [*el NEEN-yoh*]

[10] El Nino develops along the western coast of this continent and brings it heavy rains.

ANSWER: South America

[10] El Nino occurs simultaneously with this phenomenon, in which atmospheric pressure varies. Its namesake index measures differences between Tahiti and Darwin, Australia.

ANSWER: Southern Oscillation

4. This collection was apostrophized as "the ill-formed offspring of my feeble brain" by its author after it was published without her knowledge. FTPE:

[10] What is this first book of poetry published by an American, which includes "The Four Ages of Man"?

ANSWER: *The Tenth Muse Lately Sprung up in America*

[10] This puritan woman paid homage to Queen Elizabeth in *The Tenth Muse Lately Sprung up in America*.

ANSWER: Anne Bradstreet

[10] Bradstreet concludes that her "hope and treasure lies above" at the end of a poem describing this sad event of 1666 for her family.

ANSWER: house burning down (accept equivalents)

5. One work by this composer contains the movement "Doctor Gradus ad Parnassum," which mocks a Muzio Clementi collection, and another work by this composer contains "From Dawn to Noon on the Sea", which led Eric Satie to joke that he "liked the bit around half-past ten." FTPE:

[10] Name this French composer of *Children's Corner* and *La Mer*.

ANSWER: Claude Debussy

[10] Debussy's composition *Prelude to the Afternoon of a Faun* begins with this instrument playing a chromatic motif. The piccolo plays one octave higher than this woodwind instrument.

ANSWER: flute

[10] This third piece from Debussy's collection *Suite Bergamasque* includes many left-hand arpeggios. It begins in 9/8 time and D flat major but switches to E major about halfway through.

ANSWER: "Clair de Lune"

6. Ulysses Grant signed the order dedicating this area as federally protected. FTPE:

[10] What Wyoming home of the Old Faithful geyser became the first national park in 1872?

ANSWER: Yellowstone National Park

[10] In 1877 members of this tribe, led by Chief Joseph, abducted nine tourists in what is now Yellowstone while on their way to Canada to escape pursuit from the US army.

ANSWER: Nez Perce

[10] In 1939, young men working for this New Deal agency, tasked with building trails and a second visitor center at Yellowstone, mutinied before being surrounded by rangers wielding axe handles.

ANSWER: CCC or Civilian Conservation Corps

7. The Azusa Street Revival of early 1900's Los Angeles helped spark this religious movement in the U.S. FTPE:

[10] What is the catch-all term for numerous evangelical Christian churches, which derives from the Greek term for fiftieth?

ANSWER: Pentecostal (accept Pentecost, I suppose)

[10] Some Pentecostal churches believe in a form of divine healing through touch, usually referred to by this phrase.

ANSWER: laying on of hands (accept answers involving forms of "lay" and "hands")

[10] Another ecstatic behavior of some Pentecostals is glossolalia, the articulation of sounds meant to be a secret divine language, commonly known as this.

ANSWER: speaking in tongues

8. Dante's *La Vita Nuova* utilizes this literary form. FTPE:

[10] What poetic structure of 14 lines has an English form and an Italian form?

ANSWER: sonnet

[10] The Italian sonnet form is sometimes referred to by an adjective form of the name of this author whose *Canzoniere* celebrated the author's love for Laura.

ANSWER: Petrarch

[10] This 16th-century English courtier's work *Astrophil and Stella* comprises 108 sonnets. He also wrote the pastoral poem *Arcadia*.

ANSWER: Philip Sydney

9. Answer the following about important physics experiments, for 10 points each.

[10] This experiment was performed in 1887 using an interferometer and failed to detect ether.

ANSWER: Michelson–Morley experiment

[10] One physicist with this last name performed an experiment in 1914 with James Franck that showed electrons occupy only discrete energy levels. Another physicist with this surname is the namesake of the SI unit of frequency, which equals one cycle per second.

ANSWER: Hertz

[10] Electrons were fired at a crystalline nickel target in this 1927 experiment, which demonstrated the wave nature of the electron and confirmed the de Broglie hypothesis.

ANSWER: Davisson–Germer experiment

10. This is the world's second-most populous island. FTPE:

[10] Tokyo dominates what seventh-largest island on earth?

ANSWER: Honshu

[10] Honshu includes 30 of these governmental divisions of Japan, including Tokyo itself, the largest type of this governing entity larger than a municipality but smaller than a region.

ANSWER: prefecture

[10] Honshu includes this tallest mountain in Japan, famously depicted in paintings by Hokusai.

ANSWER: Mt. Fuji

11. With his best-known collaborator, this author wrote 1844's *The Holy Family*. FTPE:

[10] What German thinker co-wrote *The Communist Manifesto* with Karl Marx?

ANSWER: Friedrich Engels

[10] Engels examined the high mortality rates of the working class in this titular country, focusing on the terrible conditions in its industrial mills.

ANSWER: England

[10] Engels' article "The Magyar Struggle" highlighted the efforts of the people of this modern country to break off from Austrian hegemony.

ANSWER: Hungary [or Magyarország]

12. This action is officially known as "removal." FTPE:

[10] The 2010 Supreme Court decision in *Padilla v. Kentucky* required non-citizen defendants to be informed that a guilty plea could lead to this governmental expulsion from the US.

ANSWER: deportation

[10] The first federal power to deport came in this collective legislation of 1798 which limited rights of new immigrants and allowed for deportation of "enemies" of the US.

ANSWER: Alien and Sedition Acts (prompt on partial answer)

[10] The informal "Gentleman's Agreement" saw this country voluntarily limit emigration of its citizens to the US in return for the US not passing restrictions on immigrants from this nation.

ANSWER: Japan

13. Answer the following about a microbiology laboratory, for 10 points each.

[10] This apparatus uses pressurized steam to sterilize lab equipment, such as test tubes and Erlenmeyer flasks, at 121 degrees Celsius for around fifteen minutes.

ANSWER: autoclave

[10] Bacteria can be classified as either positive or negative in this eponymous technique, which utilizes a crystal violet stain followed by a safranin counter-stain.

ANSWER: Gram stain

[10] Gram-positive bacteria can have about five times as much of this polymer in their cell wall than Gram-negative bacteria. It consists of linked N-acetylglucosamine and N-acetylmuramic acid.

ANSWER: peptidoglycan [or murein]

14. This current world leader, who previously served as Minister of the Environment from 1994 to 1998, was given a creepy massage in 2006 by George Bush at a Group of 8 meeting. FTPE:

[10] Name this politician ranked #1 on the Forbes list of the World's 100 Most Powerful Women.

ANSWER: Angela Merkel

[10] Angela Merkel is the Chancellor of this European country.

ANSWER: Germany

[10] Angela Merkel is a member of this political party, whose main rival is the SPD.

ANSWER: Christian Democratic Union [or CDU; or Christlich Demokratische Union]

15. The model Victorine Meurent was depicted in several works by this man, including one in which a black servant brings flowers from a client to the nude central figure who reclines on a bed. FTPE:

[10] Name this French painter of *Olympia* and *A Bar at the Folies-Bergere*.

ANSWER: Edouard Manet [ma-NEY] [do NOT accept "Monet"]

[10] This painting by Edouard Manet depicts some clothed men and a naked women having a picnic together while another woman in the background takes a bath in a pool.

ANSWER: *The Luncheon on the Grass* [or *Le Dejeuner sur l'herbe*]

[10] Manet's painting *The Balcony* includes this woman, his sister-in-law, sitting down. Works by this female French Impressionist include *The Cradle* and *The Harbor at Lorient* [law-RYAHN].

ANSWER: Berthe Morisot [maw-ree-ZOH]

16. One member of this fictional family, Jamie, reappears in the play *A Moon for the Misbegotten*. FTPE:

[10] What family comprising ailing actor James, morphine-addicted wife Mary, and other son Edmund appear in the play *Long Day's Journey into Night*.

ANSWER: Tyrone

[10] *Long Day's Journey into Night* was written by this American playwright of *Mourning Becomes Electra* and *The Hairy Ape*.

ANSWER: Eugene O'Neill

[10] Hickey admits to killing his wife at the end of this O'Neill play set mostly in Harry Hope's saloon; the title refers to Hickey's joke about this delivery man sleeping with his wife.

ANSWER: *The Iceman Cometh*

17. The tumultuous year of 1848 saw many revolutions rock the nations of Europe, FTPE:

[10] The revolutions started in the city of Palermo on this island off the coast of Italy, which had been joined with Naples in 1815 into a namesake kingdom.

ANSWER: Sicily (accept Kingdom of Two Sicilies)

[10] In February of 1848, France's revolutions ended the July Monarchy of this "Citizen King."

ANSWER: Louis-Philippe I

[10] In the aftermath of the Sonderbund War, this country drafted an 1848 constitution that unified its independent cantons into one nation with capital Bern.

ANSWER: Switzerland

18. This type of phase transition is the opposite of deposition. For 10 points each:

[10] Name this phase transition in which a solid changes directly into a gas.

ANSWER: sublimation

[10] Dry ice, which sublimates at atmospheric pressure at around negative 78 degrees Celsius, is the solid form of this compound, which has a linear geometry according to VSEPR theory.

ANSWER: carbon dioxide [or CO₂]

[10] This other type of phase transition shares its name with a type of organic chemistry reaction named for Claisen in which two esters are combined to form a beta-keto ester and an alcohol.

ANSWER: condensation

19. One writer in this language wrote of a defrocked minister in Gosta Berling's Saga. FTPE:

[10] In what language did Nobel Prize winner Selma Lagerlof write, the same language in which *The Ghost Sonata* and *A Dream Play* were written?

ANSWER: Swedish

[10] The above-mentioned works in Swedish were written by what playwright, best known for his play *Miss Julie*?

ANSWER: August Strindberg

[10] Swedish author Astrid Lindgren created this nine-year-old girl character, possessed of superhuman strength and, at least in a television adaptation, possessed of fire-red hair twisted into horizontal pigtails.

ANSWER: Pippi Longstocking (accept either)

20. Karen Horney paired this concept with "Human Growth" in a 1950 book. FTPE:

[10] What is this now mostly discarded term for mental disorders that cause stress for the sufferer but are within social boundaries; they include anxiety, negativity, and other minor issues.

ANSWER: neuroses or neurosis

[10] The term "neuroses" was replaced with the class of "anxiety disorders" in the recently released fifth iteration of this clinical book classifying mental problems.

ANSWER: DSM or Diagnostic and Statistical Manual of Mental Disorders

[10] These common strategies used mostly unconsciously too avoid unpleasant truths are not considered neuroses by most; they include repression, reaction formation, and condensation.

ANSWER: defense mechanisms