

S/20/02

## BHSAT XI: Round 10

### TOSSUPS

1. Although its elevation of 14,110 feet does not place it among the tallest in the world, it is one of the most famous. The view from the top of it inspired the lyrics to the song, "America the Beautiful." It was named "Grand Peak" by the man who discovered it, but cartographers later named it in his honor. FTP, identify this Colorado mountain discovered in 1806 by a man named Zebulon.

ANSWER: Pike's Peak

2. As a playwright, this figure wrote works such as *Death of Agrippine* and *Pedant Imitated*, as well as a book on a voyage to the moon and the sun. He is better known, however, as a swashbuckling hero of a late 19<sup>th</sup>-century play, in which he helps Christian woo Roxane by feeding him romantic lines of poetry although he himself is deeply in love with her. FTP, name the author or the long-nosed title character of an Edmond Rostand play.

ANSWER: Cyrano de Bergerac

3. After studying at Harvard Law School, he became private secretary to Supreme Court Justice Oliver Wendell Holmes. He then joined the U.S. State Department and was influential in the establishment of the United Nations. In 1948, he gained greater notoriety when Whitaker Chambers accused him of being a communist spy. FTP, name this official convicted of perjury in 1950.

ANSWER: Alger Hiss

4. In 1984, an Institute was created in California whose purpose was to conduct scientific research and educational projects relevant to the nature, prevalence, and distribution of life in the universe. One of their current projects enlists the help of Internet surfers, who can use their computers to aid in their mission in exchange for fame. FTP, name this organization that uses radio telescopes to find signals that may be produced by an alien culture, with the acronym SETI.

ANSWER: Search for Extraterrestrial Intelligence (prompt on "SETI")

5. He was an officer in the Russian Imperial Guard until 1858 and later served as a government clerk. His associations with other composers encouraged him to try his own hand at music-writing. The opera, *Boris Godunov*, and the suite, *Night on Bald Mountain*, were two of his most well-received works. FTP, name this Russian who also composed the easily recognized, *Pictures at an Exhibition*.

ANSWER: Modest Mussorgsky

6. This popular food was used to embalm Alexander the Great. It is made of 70-80% sugars, mostly monosaccharides, with the rest being liquids and various enzymes. In medieval times, its hygroscopic properties led many people to apply it to wounds to prevent infection. FTP, name this sweet treat which is made from the nectar of flowers and which can most accurately be described as "bee backwash."

ANSWER: honey

7. At age 19, he left home and lived with a Taoist recluse, leading him to become deeply involved in Taoism and alchemy in his later years. He was older than Tu Fu, but still had a good relationship with him, as Tu Fu respected the elder poet. Best known as a drunk, he supposedly drowned falling out of a boat by attempting to grab the moon's reflection in his intoxicated state. FTP, name this poet of China's Tang Dynasty.

ANSWER: Li Po (or Li Bo; accept close pronunciations)

8. This university's basketball-playing alumni include Mychal Thompson, Kevin McHale, and Bobby Jackson. The school made its first and only Final Four appearance in 1997, losing to Kentucky in the national semifinals. FTP, name this university, which bought out Coach Clem Haskin's contract in 1999 when it was revealed that university secretaries were writing papers for players.

ANSWER: University of Minnesota Golden Gophers

9. Each family has four particle classifications: a massive particle, a corresponding massive antiparticle, a massless particle, and a corresponding massless antiparticle. The families are distinguished by the mass of the massive particle, each of which have a charge of negative one, and interact with each other via the electromagnetic and weak forces. FTP, name this class of fundamental particles, which includes the muon, tauon, and electron and which contrasts hadrons.

ANSWER: leptons

10. He was born in Dalmatia, and rose through the ranks of the Roman army to become a general. Proclaimed emperor in AD 284, he attempted to reintroduce pagan religion through the persecution of the Christians. FTP, name this emperor, best known for dividing the Roman Empire into two administrative halves.

ANSWER: Diocletian

11. Contrasted with Patristic and positive theologies, this branch of philosophical theology, as practiced during the Middle Ages and pre-Renaissance era, sought to explain the depth of faith and conviction of belief by a process of logical reasoning. At its profoundest level, it sought to rationalize the basis of faith, and thus unify reason and belief. FTP, name this school of philosophy whose adherents included St. Anselm and St. Thomas Aquinas.

ANSWER: Scholasticism (accept clear-knowledge equivalents)

12. After studying at the Brussels Academy of Fine Arts, he became a designer for a wallpaper factory and then did sketches for advertisements. His works were characterized by particular symbols: the castle, the rock, the window, the female torso, the bourgeois "little man," the bowler hat, and others. FTP, name this Belgian artist, known for bizarre flights of fancy combining horror, mystery, and comedy and a painting of raining bowler-hatted men.

ANSWER: Rene Francois-Ghislain Magritte

13. People diagnosed with this mental illness often experience sudden changes in memory, consciousness, and identity. Many sufferers of this illness were abused as children, but psychologists now believe that any person subjected to chronic stress or illness may be vulnerable to it. FTP, name this disorder in which a person has two or more distinct identities.

ANSWER: multiple personality disorder or dissociative identity disorder

14. Gerald Levin recently announced his plans to step down as CEO of this media giant, clearing the way for Richard Parsons to take over that position. Other executives at this company include Vice Chairman Ted Turner and Chairman of the Board Steve Case. FTP, name this company whose holdings include America Online, *Time* magazine, and Warner Brothers.

ANSWER: AOL Time Warner

15. As an Indian emperor, he developed a vast secret service system and, fearing assassination, rarely left his palace. It is also said that he became a Jain at the end of his life. Rising to power around 325 BC, he conquered all of northern India and parts of Afghanistan after brief struggles with Seleucus I in Iran. FTP, identify this founder of the Maurya dynasty and grandfather of Asoka.

ANSWER: Chandragupta I (or Candra Gupta)

16. Pencil and paper ready. Given the following math problem in Roman numerals, give the answer, also in Roman numerals, FTP. XLV times VI. You have 10 seconds.

ANSWER: CCLXX (do not accept 270)

17. With 158 million followers, it is the second largest Christian community in the world. The doctrine was established by seven ecumenical councils held between AD 325 and 787 and was amended by other councils in the late Byzantine period. Its denominations include the Church of Greece, the Church of Cypress, and the Russian Orthodox Church. FTP, name this church that split from the Roman Catholic Church in AD 1054.

ANSWER: Orthodox Eastern or Eastern Orthodox Church

18. This pop princess wrote her first song at age 8 and signed her first record deal when she was 13. Born very poor, she became successful with platinum records in seven countries, including the U.S. Lining her shelves are one "American" Grammy and two Latin Grammys. FTP, name this Columbian songstress, whose first English album, *Laundry Service*, and its single, "Whenever, Wherever", were released in November 2001.

ANSWER: Shakira Mebarak Ripoll

19. The author wrote this in response to Ralph Waldo Emerson's essay, *The Poet*, which called for a truly original national poet that would sing of the new country in a new voice. Published at the author's own expense, it was released around the Fourth of July in 1855 with no publisher or author's name on it. It included such poems as "When I Heard the Learn'd Astronomer", "O Captain! My Captain!", and "Song of Myself". FTP, name this poetry collection by Walt Whitman.

ANSWER: Leaves of Grass

20. After the death of his father, he studied military strategy and Western law in both China and Japan. He became interested in the revolutionary acts of Dr. Sun Yat-sen, and later served as Sun's military aide. FTP, name this leader, who in 1927 became head of the Nationalist Chinese government and was eventually exiled to Taiwan.

ANSWER: Chiang Kai-shek

21. It was initiated by decree of Emperor Napoleon III in 1863, but he rescinded the privilege after the first year because of the public's criticism of the paintings in it. Marking the beginning of the Impressionist movement, it was where Edouard Manet first exhibited his revolutionary work, *Luncheon on the Grass*. FTP, name this exhibition, which displayed artworks that had been rejected by the conservative French Academy of Art.

ANSWER: **Salon des refusés** (pron. "ray-few-zay"; accept "**Salon of the Rejected**")

22. In December of 1983, it opened at the Brooks Atkinson Theater on Broadway with Dorothy Loudon, Victor Garber, and Brian Murray. It ran for two years and was later adapted into a movie with Michael Caine. In November 2001, a revival opened in New York at the same theater with Peter Gallagher and Patti LuPone in the starring roles. FTP, name this Michael Frayn farce about the onstage and offstage antics of an amateur theater troupe.

ANSWER: **Noises Off**

23. Each of many cylindrical fibrils exhibits light "I" bands and dark "A" bands bisected by the "Z" line and the "M" line, respectively. The somewhat lighter bands within the "A" band are called "H" bands. These striations are produced by the arrangement of myofilaments, and the sarcomeres comprise the region between two "Z" lines consisting of an "A" band and half of two abutting "I" bands. All of these characteristics appear in, FTP, this type of fiber, the primary unit of contractile motion.

ANSWER: **muscle** fiber

## BONUSES

1. 30-20-10, identify the composer from works.

[30] *Ceremony of Carols, The Prodigal Son*

[20] *The Young Person's Guide to the Orchestra, War Requiem*

[10] *Billy Budd*

ANSWER: Benjamin **Britten**

2. Answer the following questions about the layers of the atmosphere, FTPE.

a [10]. This layer is closest to the earth. Almost all weather phenomena occur there, and it contains the largest percent of atmospheric mass of any of the layers.

ANSWER: **troposphere**

b [10]. This layer, located in the middle of the stratosphere at an altitude of 20-30 km, is probably the best known layer. It absorbs the bulk of solar radiation in the ultraviolet range, but it already has several holes in it, including a particularly large one over Antarctica.

ANSWER: **ozone** layer

c [10]. As its name suggests, this layer has extremely high temperatures--specifically between 1000 and 1500 Kelvin--due to the absorption of intense solar radiation by the small amount of oxygen that remains at an altitude of 100-200 km.

ANSWER: **thermosphere**

3. Identify these T.S. Eliot poems from first lines, FTPE.

a [10]. "Here I am, an old man in a dry month / Being read to by a boy, waiting for rain."

ANSWER: **Gerontion**

b [10]. "April is the cruelest month..."

ANSWER: The **Waste Land**

c [10]. "Let us go then, you and I..."

ANSWER: The **Lovesong of J. Alfred Prufrock**

4. FTPE, answer the following questions about the reign of Louis XIV.

a [10]. This statesman and cardinal of the Catholic Church served as Louis' prime minister until his death in 1661.

ANSWER: Cardinal **Mazarin**

b [10]. Mazarin's policies fueled this series of rebellions, whose name comes from the French word for "sling."

ANSWER: the **Fronde**

c [10]. In 1685, Louis revoked this decree, which granted religious freedom to Huguenots in 1598 by Henry IV.

ANSWER: **Edict of Nantes**

5. Given an occupation, name its patron saint, 5-10-15.

a [5]. carpentry

ANSWER: St. **Joseph**

b [10]. accounting

ANSWER: St. **Matthew**

c [15]. acting

ANSWER: St. Genesius

6. Identify these American photographers, FTPE.

a [10]. He was a passionate advocate of photography as an art, and was a pioneer exhibitor of modern art in the United States. He also sponsored a gallery called 291, and edited a magazine called *Camera Work*.

ANSWER: Alfred Stieglitz

b [10]. He is known for his technical innovations in the photography world, but is probably more famous to the general public as a photographer of nature, with images of such locations as Yosemite National Park.

ANSWER: Ansel Adams

c [10]. He was greatly influenced by Eugene Atget, who turned him to documentary photography. He photographed the rural victims of the Great Depression for the Farm Security Administration. He also collaborated with James Agee for the book, *Let Us Now Praise Famous Men*.

ANSWER: Walker Evans

7. Given the following clues about a popular board game, name it, 30-20-10.

[30] Despite its name, this game originated in Germany as an alternate version of the board game, Halma.

[20] The game can accommodate up to 6 players, each of whom possesses 17 game pieces. Pieces can be moved one space or can be used to jump opponents' pieces, but none are ever removed from the board.

[10] The board is in the shape of a six-pointed star and the objective is to move all of your pieces, usually colored marbles, from your point of the star to the opposite point.

ANSWER: Chinese Checkers

8. Just last week, the team was given quite a scare when our President Thad collapsed in the middle of practice. FTSNOP, answer the following questions about what was wrong with Thad. a [5]. At the hospital, it was determined that Thad had localized pain in his lower left quadrant and an elevated white blood cell count. The doctor said Thad's abdominal pain probably stemmed from the inflammation of this small, apparently useless worm-shaped organ attached to the end of the cecum of his large intestine.

ANSWER: vermiform appendix

b [15]. Rather than perform an appendectomy for Thad, the doctors opted for this procedure, during which they inflated his abdomen, made a few small cuts, and inserted several small instruments and the tiny camera after which the procedure is named.

ANSWER: laparoscopic (accept "laproscopy")

c [10]. After the operation, the surgeon mentioned that the appendix is only one of several structures in the human body that seem to serve no purpose. Others include the wisdom teeth and the coccyx. Give the general name used by evolutionary biologists to refer to these useless structures.

ANSWER: vestigial structures

9. Identify these European writers of distinction from the 20<sup>th</sup> century, FTPE.

a [10]. This German veteran of WWI is best remembered for his realistic war novel, *All Quiet on*

*the Western Front.*

ANSWER: Erich Maria **Remarque**

b [10]. This Portuguese Nobel winner of 1998 is best known for his works, *The Stone Raft*, *The Year of the Death of Ricardo Reis*, and *The History of the Siege of Lisbon*.

ANSWER: Jose **Saramago**

c [10]. This German poet and novelist is best known for his Danzig trilogy, which includes *The Tin Drum*, *Cat and Mouse*, and *Dog Years*.

ANSWER: Gunter **Grass**

10. Given the countries, name the nation with which all of them share a border, FTPE.

a [10]. Libya, Sudan, Israel

ANSWER: **Egypt**

b [10]. Nepal, Vietnam, North Korea

ANSWER: **China**

c [10]. Brazil, Bolivia, Argentina

ANSWER: **Paraguay**

11. FTPE, answer the following questions about New Deal programs.

a [10]. This 1935 act established a federal old-age pension program.

ANSWER: **Social Security Act**

b [10]. This act set up the National Labor Relations Board.

ANSWER: **Wagner Act**

c [10]. The Federal Securities Act set up this body to regulate the stock market.

ANSWER: **Securities and Exchange Commission**

12. FTPE, answer the following questions about movies that involve that safety school up north, Harvard University.

a [10]. In this 2001 release, Reese Witherspoon plays jilted fashion marketing major Elle Woods, who follows her ex-boyfriend to Harvard Law School in an effort to win him back.

ANSWER: **Legally Blonde**

b [10]. This 2001 movie stars rappers Redman and Method Man as two average students who smoke "something magical," and then ace their college board exams. After they run out of their magic dope, they must use their street smarts to avoid flunking out of Harvard.

ANSWER: **How High**

c [10]. In this 1994 movie, a Harvard government student loses a copy of his thesis, which is recovered by a bum played by Joe Pesci. In order to get his paper back, the student must do good deeds for Pesci, and he eventually discovers that there are more important things in life than grades.

ANSWER: **With Honors**

13. Answer these questions about music theory, FTPE.

a [10]. This symbol, consisting of a dot and a semicircle, indicates that the note should be held longer than the indicated time value.

ANSWER: **fermata**

b [10]. FTPE, if the time signature for a piece is indicated by an upper case C, standing for "common time," what is the time signature of the piece, and what kind of note gets the beat?

ANSWER: 4/4 time, quarter note

c [10]. If a piece is in a major key and has three sharps, what key is it in?

ANSWER: A major

14. Identify these related terms in linguistics, FTPE.

a [10]. When two or more groups having no common language try to communicate, this compromised form of language develops. Name this two-word term that initially denoted the jargon used by crusaders and traders, developed in southern France.

ANSWER: lingua franca

b [10]. If a lingua franca is native to none of those using it and consists of a drastically reduced grammar and vocabulary, it is called this.

ANSWER: pidgin

c [10]. When the speech community gives up the native languages and uses the pidgin as its mother tongue, the pidgin is officially upgraded to this term. Gullah, used in the Sea Islands of South Carolina, is one example.

ANSWER: creole

15. FTPE, answer the following questions about executions in 2001.

a [10]. This southern state, which led the country in executions from 1997-2000, fell to second in 2001 following a 57% decline in executions. Maybe a new governor had something to do with the change.

ANSWER: Texas

b [10]. This Midwest state led the nation in executions with 18.

ANSWER: Oklahoma

c [10]. In 2001, this Indiana city hosted the executions of federal prisoners Timothy McVeigh and Juan Raul Garza.

ANSWER: Terre Haute

16. Answer the following about real fusion processes in laboratories, FTSNOP.

a [10]. Controlled fusion is achieved in two ways. Inertial confinement uses lasers to collapse a ball of solid hydrogen, while magnetic confinement uses a toroidal magnet, which is referred to as what?

ANSWER: tokamak

b [20]. In laboratory fusion, they use isotopes of heavy hydrogen to make fusion easier to achieve. FTPE, name the two isotopes of hydrogen used.

ANSWER: deuterium and tritium

17. Identify these early American authors, FTPE.

a [10]. He praised himself and the American landscape in *A True Relation of the State of Virginia* and *The Generall Historie of Virginia, New England, and the Summer Isles*.

ANSWER: John Smith

b [10]. This first African-American poet of note and great admirer of George Washington wrote *Poems on Various Subjects, Religious and Moral*.

ANSWER: Phillis Wheatley

c [10]. This 17<sup>th</sup>-century Massachusetts author wrote *The Tenth Muse Lately Sprung Up in America*, a collection of poetry that included "Of the Vanity of All Worldly Creatures".



ANSWER: Anne Dudley **Bradstreet**

18. FTPE, answer the following questions about the reign of Peter the Great.

a [10]. Though Peter was crowned Tsar of Russia in 1682, he assumed what title in 1721?

ANSWER: **Emperor**

b [10]. Among other reforms during his reign, he abolished the authority of this aristocratic class.

ANSWER: **boyars**

c [10]. From 1700 to 1721, Russia fought the "Great Northern War" against which Scandinavian country, headed by Charles XII?

ANSWER: **Sweden**

19. Identify the following Greek deities and their mortal lovers, 5 points for each member of each pair.

a [10]. Enchanted by her beauty, he ravished his object of desire in Athena's temple. The goddess, incensed by this sacrilege, turned the maiden into a hideous monster.

ANSWER: **Poseidon** and **Medusa**

b [10]. The affair between these two, which occurred while the woman was locked away and the god was a shower of golden light, resulted in the birth of Perseus.

ANSWER: **Zeus** and **Danae**

c [10]. She never saw her lover until her jealous sisters persuaded her to wait at night for him with a lantern. When she did, he ran away, but they were eventually reconciled with help from the god's mother, appropriately, and they lived happily ever after.

ANSWER: **Eros** and **Psyche**

20. FTPE, answer the following questions about female winter Olympians.

a [10]. This 5'4", 130-pound speed skater won five Olympic gold medals between 1988 and 1994 before she retired in 1995.

ANSWER: Bonnie Kathleen **Blair**

b [10]. This skier won a gold medal in the Super G at the 1998 Olympics after tearing her ACL in 1996. She was called "Little Girl" until age 2, when she gave herself this unusual name.

ANSWER: Picabo ["Peek-a-boo"] **Street**

c [10]. She won a gold medal in figure skating at the 1976 Olympics. Her famous "wedge" hairstyle started a fashion craze in the U.S. After skating for the Ice Capades, she retired from skating to pursue a career in broadcasting.

ANSWER: Dorothy **Hamill**

21. Given some examples of joints, name the type of joint being described, FTPE. For example, given hip and shoulder joints, you would respond, "ball and socket."

a [10]. radius and ulna, atlas and axis (first and second cervical vertebrae)

ANSWER: **rotating** or **pivot**

b [10]. elbow and knee, interphalangeal joints

ANSWER: **hinge** or **ginglymus**

c [10]. metacarpo-phalangeal joints, temporomandibular

ANSWER: **condylar** or **condyloid**

22. Given some literary works, name the author, FTPE.

a [10]. *Brideshead Revisited*

ANSWER: Evelyn **Waugh**

b [10]. *The Natural*

ANSWER: Bernard **Malamud**

c [10]. *The Adventures of Augie March*

ANSWER: Saul **Bellow**

23. Answer the following questions about the Credit Mobilier scandal, FTPE.

a [10]. The Credit Mobilier was a construction company founded in 1864 to build a transcontinental railroad for what American railroad company?

ANSWER: **Union Pacific** Railway

b [10]. This Ohio Congressman, who in 1881 briefly served as U.S. president, was accused of accepting bribes from Credit Mobilier.

ANSWER: James **Garfield**

c [10]. The Credit Mobilier and Whiskey Ring scandals soiled the reputation of this U.S. president, who was nevertheless reelected in 1872.

ANSWER: Ulysses S. **Grant**