

5/9/2002

**BHSAT XI: Round of 32**

**TOSSUPS**

1. It begins with two tribunes, Flavius and Marrulus, speaking to various commoners on the streets of the city. In the next scene, we meet the title character and his entourage—but he is already doomed to die by Act I, Scene 2, when the soothsayer warns him to beware the Ides of March. FTP, name this Shakespearean tragedy more about the murderers of a Roman dictator than the dictator himself.

ANSWER: Julius Caesar

2. This theory, first proposed by J. J. Becher, was later vigorously defended by Joseph Priestly. Regarding the combustion of matter, it stated that all flammable substances contained a certain material that had no smell, taste, color, or weight. It also stated that when a substance burned, it consumed all of this material and left behind, in the form of ash, the true substance. FTP, name this substance whose existence was ultimately disproved by A. L. Lavoisier.

ANSWER: phlogiston

3. Born in New Orleans in 1901, he followed brass bands around the streets and played his instrument in marching bands and on Mississippi riverboats. Given a variety of nicknames like Dippermouth and Pops, he became big when King Oliver invited him to play second trumpet in his Creole Jazz Band in Chicago. FTP, name this man considered the best trumpet player in the history of jazz and also known for pioneering “scat” singing.

ANSWER: Louis Daniel Armstrong

4. Born in 1336, he conquered territories extending from the Mediterranean to the Indian subcontinent. In 1370, he proclaimed the restoration of the Mongol Empire of Genghis Khan, whom he falsely claimed as an ancestor. He died on his march to China, the country he intended to invade next. FTP, name this man who had the capital of his kingdom at Samarkand.

ANSWER: Tamerlane the Great

5. After installing Samuel Seabury as its first bishop in 1784, it was divided into “White” and “Provost” factions, and then held its first General Convention in 1789. Today, worship is based on the Book of Common Prayer and interpretation of the Bible using a modified version of the Thirty-Nine Articles, which were originally written in 1563 for the Church of England. FTP, name this U.S. offshoot of the Anglican Church whose name comes from the Latin for “bishop”.

ANSWER: Episcopal Church (accept equivalents: Episcopalian, etc.)

6. Both of his parents were former slaves, but he was able to become one of the first African-Americans to make a living as a full-time writer. He published his first volume of poetry, *Oak and Ivy*, in 1893 while working as an elevator operator. His other volumes of poetry include *Majors and Minors* in 1895 and *Lyrics of Lowly Life* in 1896. FTP, name this famous early black poet, who lends his name to a high school in Lexington, Kentucky.

ANSWER: Paul Laurence Dunbar

7. Information on them was first published by Pierre Laplace in the first two editions of a book

on astronomy, but left out of later editions. In 1916, the concept was revived during a study of Einstein's field equations on gravity, and in the 1960s, the term by which they are now commonly known was coined by John Wheeler. FTP, name the phenomena that result when the pressure of thermonuclear reactions causes stars to collapse into singularities.

ANSWER: **black holes**

8. Despite tearing her ACL as a college player at the University of Tennessee-Martin, this woman went on to co-captain the U.S. women's basketball team to a silver medal at the 1976 Summer Olympics. She had begun her college coaching career two years earlier and would eventually win six national championships, most recently in 1998. FTP, name this current coach of the University of Tennessee Lady Volunteers.

ANSWER: Pat **Summitt**

9. First starting as a student of Lorenzo Ghiberti, many of his friends attest that he was a connoisseur of ancient art rather than contemporary things. Nevertheless, he was a pioneer in sculpture, using new techniques in his marble statues, such as *Feast of Herod* and *St. George Killing the Dragon*. FTP, name this Florentine sculptor, best known for creating the first large freestanding nude of the Renaissance, the bronze David.

ANSWER: **Donatello**

10. This letter, originally derived from an Egyptian hieroglyph, is the only one not contained in the name of any of the fifty states. It is also the only one that can be used as a word spelled with five letters, and it shares its name with popular characters in the James Bond movies and *Star Trek*. FTP, name this 17<sup>th</sup> letter of the English alphabet.

ANSWER: **Q**

11. In statistics, this distribution, one of the dozens utilized for data analysis, is generally used to model systems in which the probability that an event will occur is very low. The number of opportunities for such an occurrence, though, is very high, and this distribution is determined by the parameter lambda. FTP, name this statistical distribution with a name identical to the French word for fish.

ANSWER: **Poisson** Distribution

12. His political career started when Tammany Hall appointed him to a post in the city commissioner's office. During his four terms as governor of New York State, he attacked the Prohibition and fought for workers' rights. He was also the first Roman Catholic nominated for the U.S. presidency by a major political party. FTP, name this politician who lost the 1928 election to Herbert Hoover.

ANSWER: Alfred E. **Smith**

13. This work interweaves the stories of three families, including the Oblonskys and the Levins. Its first sentence states, "All happy families resemble each other; each unhappy family is unhappy in its own way." The title character imagines herself as a heroine in a novel, and abandons her husband and son for Aleksey Vronsky. In the end, she commits suicide by throwing herself under a train. FTP, name this novel by Leo Tolstoy.

ANSWER: **Anna Karenina**

14. He wrote his first symphony when he was 18 without any formal training in music. He was later appointed to the faculty of the St. Petersburg Conservatory and began work on a four-movement symphonic adaptation of *Arabian Nights*. He was a teacher to Igor Stravinsky and Sergei Prokofiev, and a member of the Russian Five. FTP, name this Russian composer of *Scheherazade* and *Flight of the Bumblebee*, the most famous hyphenated name in music.

ANSWER: Nikolay Rimsky-Korsakov

15. In 1980, he wrote the book, *Go Quietly...or Else*, in defense of his political career. Starting out as the county executive of Baltimore, he became Maryland's governor in 1967 and repealed its 306-year-old anti-miscegenation law. Unfortunately, he also was charged with extortion, bribery, and income-tax violations, leading to his disbarment from Maryland. FTP, name this man forced to resign in 1973 as the vice president of the U.S. for the aforementioned charges.

ANSWER: Spiro T. Agnew

16. In ancient times, this country went by the name of Ariana or Bactria. During the Middle Ages, its name changed to Khorasan. Bordered by Uzbekistan, Turkmenistan, Tajikistan, Pakistan, Iran, and China, it is about the size of Texas and is home to such cities as Mazar-e-Sharif and Qandahar. FTP, name this country whose capital city is Kabul.

ANSWER: Afghanistan

17. Of her, Donald Johanson said, "She was so odd that there was no question about her not being human. She simply wasn't. She was too little." Only 40% of her was ever found, but she is believed to be the remains of *Australopithecus afarensis*, a species that was proposed after the discovery of similar skeletons and theorized to have lived between 3 and 3.9 million years ago. FTP, name this fossil unearthed in Hadar, Ethiopia in 1974.

ANSWER: Lucy

18. Honored each year during the Roman festival spanning 3-7 days in late December, his period of rule came to be known as the golden age on earth. He gained power from his father, but was soon overthrown by his own son in an epic struggle. He and his brethren were banished to Tartarus, but he later escaped to Italy and was enthroned there. FTP, name this Titan, the father of the Olympians and husband to Rhea, also known as Saturn to the Romans.

ANSWER: Cronus (accept "Saturn" before it is mentioned)

19. Each book in this trilogy is named after a suburb of the eponymous city. The three books are chronological, depicting the life of a traditional Arab family in the early 1900s and ending in the middle of the 20<sup>th</sup> century with the story of the grandsons of the first patriarch. FTP, name this trilogy consisting of the volumes *Palace Walk*, *Palace of Desire*, and *Sugar Street*, written by Naguib Mahfouz and named after an Egyptian city.

ANSWER: Cairo Trilogy.

20. She showed her concern for education throughout her forty-year reign, establishing the academy of the nobles and the academy for Oriental languages. Though she was often known as "Empress," her official title was "Queen of Bohemia and Hungary, Archduchess of Austria." She also centralized the Hapsburg Empire, increased the power of the Austrian army, and

realigned her nation with Russia and France against Prussia instead of with Great Britain. FTP, name this mother of Marie Antoinette whose acquisition of power led to the War of the Austrian Succession.

ANSWER: **Maria Theresa**

21. Those who focus on the interior phase of this science consider volume, temperature, weight, and gas pressure produced by combustion. In the exterior stage, air resistance, gravity, shape, and rotation are key elements to study. During the terminal phase, detonation, fragmentation, and penetration are effects connected to the impact of the projectile against a target. FTP, name this science that examines the motions of bodies shot through space.

ANSWER: **ballistics**

22. This Arkansas business not named Wal-Mart was recently indicted by the federal government for actively smuggling illegal aliens into the United States. With sales last year of \$23.8 billion, it is otherwise known as one of the largest beef, pork, and poultry producers in the world. FTP, name this food company that "feeds you like family."

ANSWER: **Tyson** Foods Inc.

23. Hamish challenges the main character to a test of manliness. An Irishman asks if the protagonist will be able to kill Englishmen. The hero's anger is provoked when a British lord kills his wife, Murrin. The Scots flash their foes with their naked derrieres. These scenes are included in, FTP, this 1995 Academy Award winner for Best Picture starring Mel Gibson.

ANSWER: **Braveheart**

## BONUSES

1. FTPE, answer the following questions about elections in 2001.

a [10]. Republican Michael Bloomberg defeated this Democratic Public Advocate in New York City's mayoral race.

ANSWER: Mark **Green**

b [10]. Democrat Jim McGreevy defeated Republican Bret Schundler to become governor of this East Coast state.

ANSWER: **New Jersey**

c [10]. Following a hotly contested election, Lee Brown was elected mayor of this city, the largest in the South.

ANSWER: **Houston**, Texas

2. Given some functional characteristics, name the lobe of the brain in which most of the functions can be localized, FTPE.

a [10]. perception, memory, and hearing

ANSWER: **temporal**

b [10]. pressure, pain, and temperature

ANSWER: **parietal**

c [10]. reasoning, problem-solving, and speech production

ANSWER: **frontal**

3. Hey kids! Remember the '80s? No? Well, rock bands do. FTPE, name the band that has had recent success covering the given '80s song.

a [10]. New Order's *Blue Monday*

ANSWER: **Orgy**

b [10]. Michael Jackson's *Smooth Criminal*

ANSWER: **Alien Ant Farm**

c [10]. George Michael's *Faith*

ANSWER: **Limp Bizkit**

4. Identify these Tennessee Williams plays from family members, FTPE.

a [10]. Laura, Tom, and Amanda Wingfield

ANSWER: The **Glass Menagerie**

b [10]. Blanch and Stella DuBois

ANSWER: A **Streetcar Named Desire**

c [10]. Big Daddy, Brick, and Gooper Pollitt

ANSWER: **Cat on a Hot Tin Roof**

5. It was a mechanism where people relinquish control of some rights for protection of rights overall. Answer these questions about the social contract, a theory of the creation of the state that never actually happened and which nobody actually signed, FTPE.

a [10]. The social contract was necessary to leave this anarchic stage of human development, where Hobbes said life was "nasty, brutish, and short."

ANSWER: **state of nature**

b [10]. Hobbes thought life was so bad in the state of nature that he was willing to have an

absolute ruler with unlimited power so long as he provided security. What did Hobbes call this ruler?

ANSWER: **Leviathan**

c [10]. This thinker said, "Man is born free, but everywhere is in chains." The state of nature had been happy, but the creation of property necessitated a social contract to control men's greed.

ANSWER: Jean Jacques **Rousseau**

6. Identify the following musicals currently running on Broadway, FTPE.

a [10]. Written by Elton John and Tim Rice, this musical is based on an Italian opera of the same name.

ANSWER: **Aida**

b [10]. This popular show includes such songs as "I'll Cover You", "Seasons of Love", and "One Song Glory".

ANSWER: **Rent**

c [10]. This dance-heavy musical won the Tony for Best Musical in 2000.

ANSWER: **Contact**

7. Identify the historical figure, 30-20-10.

[30] After attending the University of Montana, she was employed as a social worker in New York and Seattle.

[20] A Republican, she was the first female member of the House of Representatives.

[10] A feminist and pacifist, she was the only member of Congress to vote against America's entry into both World Wars.

ANSWER: Jeanette **Rankin**

8. FTPE, answer the following questions about legal codes.

a [10]. This code was carved into a piece of basalt stone in Babylon around 1750 BC.

ANSWER: **Code** (or Codex) **of Hammurabi**

b [10]. This set of legal standards was named for the Byzantine emperor who issued them in AD 534.

ANSWER: **Justinian Code**

c [10]. This system of civil law quickly gained widespread usage after its issuance by an emperor in 1807. It still forms the primary structure of government for the state of Louisiana.

ANSWER: **Napoleonic Code** (accept "**Code Napoleon**")

9. Name the following African writers from the descriptions, FTPE.

a [10]. The works of this South African playwright have often been grouped into "Statement" plays, "Port Elizabeth" plays, and "Township" plays. They include *The Blood Knot* and *Master Harold and the Boys*.

ANSWER: Athol **Fugard**

b [10]. This Nigerian received the Nobel Prize in Literature in 1986. He is known for writing volumes of poetry and plays such as *A Dance of the Forests* and for co-editing the literary journal, *Black Orpheus*, from 1960 to 1964.

ANSWER: Wole **Soyinka**

c [10]. A South African novelist and short story writer, she fought against apartheid through her writings, which include the short story collection *A Soldier's Embrace* and *July's People*, as well

as novels like *The Conversationist*. She won the Nobel Prize in Literature in 1991.

ANSWER: Nadine **Gordimer**

10. FTPE, given a description of the genetic disorder resulting from abnormalities in chromosome number, name the disorder.

a [10]. A total of 47 chromosomes are present in this disorder, caused by 3 chromosomes in 21 in group G.

ANSWER: **Down's** Syndrome

b [10]. In this disorder, females possess only one X chromosome, so that the total number of chromosomes is 45.

ANSWER: **Turner's** Syndrome

c [10]. This syndrome is characterized by the presence of 2 X chromosomes and one Y chromosome, resulting in 47 chromosomes.

ANSWER: **Klinefelter's** Syndrome

11. Identify the composer from works, FTPE.

a [10]. *Trout Quintet, Unfinished Symphony*

ANSWER: Franz **Schubert**

b [10]. *Pomp and Circumstance, Enigma Variations*

ANSWER: Edward **Elgar**

c [10]. *Fanfare for the Common Man, Appalachian Spring*

ANSWER: Aaron **Copland**

12. Name the following explorers of North America, FTPE.

a [10]. This man went down the Illinois and Mississippi Rivers and claimed Louisiana for France, but was killed by his own men.

ANSWER: Rene-Robert Cavelier **La Salle**

b [10]. Some claim that he explored Brazil, but he is most famous for exploring the St. Lawrence River in the early 16th century.

ANSWER: Jacques **Cartier**

c [10]. They're not Lewis and Clark, but they are an explorer duo credited as being the first Europeans to see the Mississippi River. Name them both.

ANSWER: Father Jacques **Marquette** and Louis **Joliet** (both required)

13. FTPE, given the names of three suburbs, name the U.S. city that they surround.

a [10]. Milton, Waltham, Natick

ANSWER: **Boston**, Massachusetts

b [10]. Shaker Heights, Parma, Brook Park

ANSWER: **Cleveland**, Ohio

c [10]. Irving, Garland, Mesquite

ANSWER: **Dallas**, Texas

14. Name these works of Hermann Hesse from the descriptions, FTPE.

a [10]. In this existential story, Emil Sinclair discovers the self under the tutelage of Max.

ANSWER: **Demian**

b [10]. Taken from the historical name of the founder of Buddhism, the title character goes

through three stages: the time of the mind, of the sense, and of ultimate enlightenment.

ANSWER: Siddhartha

c [10]. This novel revolves around the experiences of Harry Haller, who identifies himself as a half-man, half-wolf who hates the bourgeois lifestyle.

ANSWER: Steppenwolf

15. It's time to celebrate. Given the following days or dates, name the national holidays that fall on them each year, FTPE.

a [10]. The 3<sup>rd</sup> Monday in January.

ANSWER: Martin Luther King, Jr. Day

b [10]. June 19<sup>th</sup>

ANSWER: Juneteenth

c [10]. The 2<sup>nd</sup> Monday in October.

ANSWER: Columbus Day

16. In thermodynamics, it is useful to examine the behavior of a system in which either temperature, pressure, or volume is held constant. FTSNOP, given the variable, tell me the scientific name of the system.

a [5]. Constant temperature

ANSWER: isotherm or isothermal system

b [10]. Constant pressure

ANSWER: isobar or isobaric system

c [15]. Constant volume

ANSWER: isochor or isochoric system

17. 30-20-10, name the artist.

[30] He designed the dream sequences for Hitchcock's *Spellbound*.

[20] He painted *Soft Construction with Boiled Beans: Premonition of Civil War* in 1936.

[10] This Spanish painter of *Visage of War* was one of the foremost proponents of surrealism.

ANSWER: Salvador Dali

18. FTPE, name these members of the 500 homerun club given the number of homeruns they hit. You get only 5 points if you need a brief description of the athlete.

a [10]. 714

[5] When this Yankee slugger retired, he held the records for most homeruns in a season and in a career.

ANSWER: George Herman "Babe" Ruth

b [10]. 660

[5] This "Say-Hey Kid" played most of his career with the New York/San Francisco Giants.

ANSWER: Willie Mays

c [10]. 548

[5] A Phillies third baseman for most of the '70s and '80s, he was inducted into the Hall of Fame in 1995.

ANSWER: Michael Jack Schmidt

19. Given a class of biological macromolecule, name the bond that holds monomers together,



FTPE. For example, if I said "lipids," you would say "ester linkage."

a [10]. proteins

ANSWER: **peptide** bond or linkage

b [10]. carbohydrates

ANSWER: **glycosidic** bond or linkage

c [10]. nucleic acids

ANSWER: **phosphodiester** bond or linkage

20. Answer the following questions relating to the Brooklyn Bridge, FTPE.

a [10]. A father-and-son engineering team oversaw the bridge's 14-year-long construction. After the father, John, died partway through, his son Washington took over. Give their last name.

ANSWER: **Roebling**

b [10]. On May 23, 1883, the completed bridge was formally dedicated by the U.S. president and the governor of New York State, who would later become president. Name either man.

ANSWER: Chester **Arthur** OR Grover **Cleveland**

c [10]. The Brooklyn Bridge held the record as the world's longest bridge until 1890 when a cantilever bridge built in Edinburgh, Scotland surpassed its length. Identify this bridge, named for the waterway it spans and featured prominently in the Hitchcock film, *The Thirty-Nine Steps*.

ANSWER: The **Firth of Forth**

21. Identify these works of literature from their opening lines FTPE, or 5 points if you need the author.

a [10]. "It was a pleasure to burn."

[5] Ray Bradbury

ANSWER: **Fahrenheit 451**

b [10]. "The boy with the fair hair lowered himself down the last few feet of rock and began to pick his way toward the lagoon."

[5] William Golding

ANSWER: The **Lord of the Flies**

c [10]. "It was the evening on which Debienne and Poliguy, the managers of the Opera, were giving a farewell gala."

[5] Gaston Leroux

ANSWER: The **Phantom of the Opera**

22. Name the following delegates to the 1814 Congress of Vienna, FTPE.

a [10]. Representing Britain, this man was born as Robert Stewart. Named Secretary of War under Prime Minister William Pitt in 1804, he served as leader of the House of Commons after the Congress of Vienna.

ANSWER: Lord **Castlereagh**

b [10]. This French delegate was an ordained bishop. After living in exile in England and America, he became foreign minister under Louis XVIII and was appointed French Ambassador to England at age 74.

ANSWER: Charles Maurice de **Talleyrand**-Perigord

c [10]. This Russian czar was Catherine the Great's grandson. He laid claim to Poland at the Congress and in 1815 crafted the "Holy Alliance" treaty.

ANSWER: **Alexander I**

23. Given a description, name the Roman deity, FTPE.

a [10]. Goddess of the dawn, she is the Roman equivalent of the Greek goddess, Eos.

ANSWER: Aurora

b [10]. Goddess of wealth, she was the handmaiden of Fortuna and carried the horn of plenty.

ANSWER: Copia

c [10]. The god of doorways and beginnings and endings, he was often depicted with two faces.

ANSWER: Janus