

**TOSSUPS – Freelance Questions (To Good Homes) MOON PIE™ CLASSIC 2006 (UTC/Grinnell/Boston U.)**  
**Questions by Oklahoma, Florida (Travis Vitello), Maryland, and Drake with editorial assistance by David Moore**

1. (MD) He was elected to the U.S. Senate in 1849 from New York as a member of the Whig Party, and voted against the Compromise of 1850. After the Whigs' demise, he got elected back to the Senate as a Republican in 1855. After failing to receive the presidential nomination in 1856 and 1860, he was appointed into Lincoln's cabinet and served until 1869, establishing a secret police force in the U.S. which arrested thousands. FTP, name this Secretary of State who was the leader behind the purchase of Alaska.

Answer: William H. Seward

2. (TV) Mozart's Symphony No. 29 was scored in the major key of this note, as was his Piano Sonata No. 11 featuring the *Turkish Rondo*. In a standard orchestra, all stringed instruments have this type of string, which is often found as the second string on a classical guitar. FTP, identify this sixth note of the C Major scale that can be played at a frequency of 440 hertz.

Answer: **A**

3. (DU) Its quantized operator is minus  $\hbar$  squared over two  $m$  times the Laplacian. In special relativity, it is represented by the product gamma minus one times the rest mass times the speed of light squared. The Hamiltonian is this quantity less potential energy. For ten points, give this quantity, whose most common formula is half the mass times the square of the velocity, the energy of motion of an object.

Answer: Kinetic Energy (dolefully prompt on "Energy" before "potential energy"; do not accept after it)

4. (TV) After losing 9-8 to Johns Hopkins in last year's NCAA Championship, they opened this season with a convincing 20-3 win over Butler. Their most recent game was a loss to Cornell; since then they have seen the resignation of their coach, Mike Pressler. 46 of its 47 members underwent DNA testing in an ongoing investigation; at this writing two have been indicted. FTP, identify this Blue Devils team whose players have recently been accused of raping a stripper.

Answer: **Duke University Men's Lacrosse Team**

5. (TV) At the opening of this work, a train heading towards St. Petersburg carries a passenger who has spent the last four years in a Swiss sanitarium for epilepsy. On the train, that passenger meets Parfyon Rogozhin, a man who would later murder the passenger's future love, Nastassya Filippovna. That passenger, Prince Myshkin, eventually returns to Switzerland after falling into a state of total mental degradation. FTP, this describes what novel by Fyodor Dostoevsky?

Answer: *The Idiot*

6. (DU) In 2005, a government initiative mandated cloud seeding around this mountain to increase snowfall and provide extra water for irrigation. It is surrounded by five glacial lakes or "tarns" and was named in 1840, by Paul Strzlecki, after a Polish general. Located at the southern end of Snowy Mountains, it is part of the Great Dividing Range and is 45 Kilometers north of the New South Wales-Victorian border. FTP name this mountain, the highest in Australia

Answer: Mt. Kosciusko

7. (DU) One of the more bizarre entries in this man's resume would be "spent one year as Superintendent of Weights and Measures in Manila, Philippines", a job which he left teaching at Harvard to take. He later made UC Berkeley's Chemistry department rival any on the East Coast. He also discovered tetratomic oxygen, was the first to produce pure deuterium oxide, introduced the concept of fugacity, and set forth ideas on chemical bonding that were expanded upon by Irving Langmuir and Linus Pauling. FTP name this man, whom chemistry students are most likely to recognize from his namesake acids and bases.

Answer: Gilbert Newton Lewis

8. (OU) The book's final illustration is of a place in the Sahara desert where the narrator first met the title character, who came from an asteroid and whom the pilot hopes will return. That character met many adults, such as a cartographer, a king and a drunkard, whom he considered ridiculous; he made friends with a fox, however. FTP, name this Antoine de St. Exupery character who came to earth where he met a pilot in the desert and then asked the pilot to draw him a sheep.

Answer: The Little Prince or Le Petit Prince

9. (OU) Forces loyal to Yoshinobu fought against imperial forces in the Boshin War, but were defeated and fled to Hokkaido, in the hopes of starting the breakaway Republic of Ezo. This failure, coupled with Yoshinobu's resignation from his post, marked the end of this group, who rose to power during the Warring States period under Ieyasu. FTP, name this group, which was ousted by the Meiji Restoration, the last bakufu or shogunate in Japan.

Answer: **Tokugawa Shogunate or Tokugawa Bakufu**

10. (TV) In Acts 7:56, this man's observation of the heavens opening and revealing "the Son of Man standing on the right hand of God" may have been the first anticipation of the Second Coming. After being tried by the Sanhedrin, he was cast out of Jerusalem by an angry mob overseen by Saul of Tarsus. FTP, identify that man, a saint who would be stoned to death, often considered the first Christian martyr.

Answer: **Saint Stephen**

11. (TV) In the upper left hand corner of this work can be seen the outline of the Chatou railroad bridge. In the foreground, a woman in a blue dress and flowered hat lifts a small dog while a man sitting backwards in a chair gazes at her from across a table. Other details include a woman in a white dress leaning against a railing beneath a red and white awning. FTP, identify this painting of an outdoor gathering by Renoir.

Answer: ***Luncheon of the Boating Party***

12. (MD) Optimizations of it include performing an Insertion Sort for small values of  $n$  to reduce stack allocation. It can run in place by moving elements less than the pivot to the front of the list, and another implementation uses three lists of elements less than, equal to, and greater than the pivot to eliminate the worst case. Random pivots are also used to avoid the worst case of  $n^2$  when the input is already sorted. FTP, name this comparison based search with an average runtime of order  $n \log n$  that is named for its fast runtime.

Answer: **Quicksort**

13. (OU) The poem is notable as it is one of the first texts to equate St. Valentine's Day with celebrations of love, prompting many scholars to question his dating motivations. The unnamed narrator describes first reading Cicero's *Somnium Scipionis* before falling asleep himself. In his dream, he sees numerous celebrants of love, including several goddesses and depictions of scenes from classical mythology. FTP, name this work by Geoffrey Chaucer, which sees that narrator than witness the debate between three tercels, among others, in the title location.

Answer: ***Parlement of Foules or Assembly of Foules or Parlement of Briddes***

14. (OU) He first seized power from Milton Obote, who had himself initiated a coup against the country's first president, Mutesa. Obote led an invasion from Tanzania, but this was repulsed and this man began the mass-murders which were associated with his rule by killing large numbers of the Lango and Acholi tribes. He became more erratic, claiming to have visions from God and adopted a number of unsubstantiated titles, including King of Scotland and Lord of all the Beasts of the Earth and Fishes of the Sea. Noted for his brutality, FTP, name this infamous Ugandan dictator deposed in 1979.

Answer: **Idi Amin Dada Oumee**

15. (DU) It is comprised of eight separate right-handed alpha helices designated A through H that are joined by short non-helical regions. The alpha-helices comprise an unusually high proportion, approximately 75%, of its secondary structure. It is toxic to renal tubular epithelium, making it a cause of acute renal failure. FTP, name this monomeric heme protein which constitutes the main oxygen-carrying pigment of muscle tissue.

Answer: **Myoglobin**

16. (OU) Zisa is sometimes given as his consort and Jakob Grimm used this to explain Tactius' claim that the Germans worshipped Isis. He is a god of war and his name is cognate with those of a number of other Indo-European supreme deities, such as Zeus and Juppiter. He is often depicted with only one hand, because the other was bitten off by Fenrir. FTP, name this Norse and Germanic god, who lent his name to a day of the week in English.

Answer: **Tyr or Tyz or Ty or Ziu**

17. (DU) Although there was some dispute, this man did indeed coin the American Dialect Society's 2005 word of the year. That word, "truthiness" appeared in the first "The Word" segment of this man's show. Thanks to that dispute, the Associated Press became the second entity of all time to displace bears from being number one on his segment, "Threat Down." FTP name this former Daily Show correspondent, a Comedy Central icon who now hosts his namesake "Report" ("Re-poor").

Answer: Stephen **Colbert** (Ironically, pronounced "Kohl-BEAR")

18. (MD) He appeared in the April 2006 issue of *Playboy* in the section on Faith and Reason and talked about his anthropology master's degree from the University of Chicago. His brother Bernard was a leading pioneer in cloud seeding and discovered that silver iodide was excellent for it. He is the Honorary President of the American Humanist Association, and his most recent work is the collection of essays, *A Man Without a Country*. FTP, identify this author of *The Sirens of Titan*, *Player Piano*, *Cat's Cradle* and *Slaughterhouse-Five*.

Answer: Kurt **Vonnegut**, Jr.

19. During the reign of Lucius Cornelius Cinna, he is said to have hid in a cave in Hispania near the property of Vibius Papias. With the death of Cinna, he returned to Rome and joined the Sullan forces, even commanding Sulla's right wing at Collitine Gate in 82. He then began to rebuild his family fortune, which he said to have done by owning his own private fire brigade, which would only put out fires if the owners sold their property to him. FTP, name this famed Roman, who defeated the slave revolt under Spartacus and who was a member of the Third Triumvirate.

Answer: Marcus Licinius **Crassus** Dives

20. (DU) This drug was originally used as a local anesthetic for facial surgery in the late 19<sup>th</sup> century and is classified as a Schedule II substance to this day for use in similar procedures. It works by blocking the reuptake of dopamine, but also constricts blood vessels while also dilating pupils and increasing body temperature. Usually found as a hydrochloride salt to be contrasted with its free base form, this is, for ten points, what stimulant that is commonly injected or snorted and may or may not have been the secret ingredient in an Atlanta-based beverage company?

Answer: **Cocaine** (do not accept Crack, prompt on Coke, Flake or Snow)

21. (DU) A Kurt Wimmer 2002 action/ sci-fi flick or a German Viking metal band. In ethics, the reflective type is a state in which the consequences of one's general principles are consistent with one's opinions about individual cases type is. It will kill a cell but the overall organism requires a sense of it. FTP, give this general term that can be preceded by static, chemical, thermodynamic, or Nash.

Answer: **Equilibrium**

22. (TV) During the Vicksburg campaigns of the American Civil War, this city was twice occupied by Union forces and was dubbed "Chimneyville" after General Sherman's troops reduced it to ashes. Located along the banks of the Pearl River, it was founded by the French-Canadian trader Louis LeFleur, who lends his name to a nearby bluff. It is also home to Millsaps College and the University of Mississippi Medical Center. FTP, identify this southern state capital.

Answer: **Jackson**, Mississippi

23. (DU) The first political battle this person says he ever lost was when a girl across the street beat the crap out of him for supporting Richard Nixon when he was 9. Born on Christmas Day, 1950, he became the Executive Director of the College Republican National Committee. He was also the first person hired for the 1978 Texas Congressional Campaign by George W. Bush, and though unsuccessful, helped the younger Bush to a more powerful position. FTP name this man, the current Deputy White House Chief of Staff and the President's top political advisor.

Answer: Karl **Rove**

**BONI – Freelance Questions (To Good Homes)      MOON PIE™ CLASSIC 2006 (UTC/Grinnell/Boston U.)**  
**Questions by Oklahoma, Florida (Travis Vitello), Maryland, and Drake with editorial assistance by David Moore**

1. (OU) F10PE, name the Nathaniel Hawthorne short story from a brief description.

A. A man takes a walk in the woods and ends up seeing his wife and neighbors engaging in dark rituals. Though the vision might have been a dream, it still creates permanent suspicion in his mind.

Answer: ***Young Goodman Brown***

B. A parson draws attention to himself by wearing a particular garment at a church service, then a funeral, and a wedding. It deeply upsets those around him, even prompting his lover Elizabeth to leave him, but he alleges that this is because of their own hidden guilt.

Answer: ***The Minister's Black Veil***

C. A young man, Giovanni, tries to seduce a girl he sees in a garden, but finds that her botanist father's experiments have made her breath and touch poisonous. Through his interactions with her, Giovanni becomes like her. His attempts to free them from their condition end up killing her.

Answer: ***Rapacinni's Daughter***

2. (MD) Identify the following from high-school level thermodynamics FTPE.

[10] This law, named after a famous scientist, states that the rate of heat transfer is proportional to the difference in temperatures between an object and its surroundings.

Answer: **Newton's law of cooling**

[10] The idea that as a system approaches absolute zero all processes halt and that the entropy reaches a minimum is also known as this.

Answer: **Third law** of thermodynamics

[10] All or nothing, these are the three means by which heat can transfer.

Answer: **Convection, conduction, radiation**

3. (DU) Answer these questions about the Democratic Party in New York City in the late 1800's.

This is the name given to the political machine that held power, which began as a patriotic fraternal organization.

Answer: **Tammany Hall**

This grand sachem of Tammany Hall in the 1860s and 1870s and his "ring" of cronies defrauded the city of over \$30 million.

Answer: William M. "Boss" **Tweed**

While Boss Tweed's downfall was more directly due to a county bookkeeper named O'Rourke, this influential cartoonist played a key role in turning public opinion against Tweed.

Answer: Thomas **Nast**

4. (MD/TV) FTP each – answer the following regarding mythological artifacts:

[10] The ninth labor of Heracles was to retrieve this object from the queen of the Amazons.

Answer: **girdle of Hippolyta** (accept clear-knowledge equivalents)

[10] Fashioned by the dwarves Brok and Eitri, this was the hammer of Thor.

Answer: **Mjollnir**

[10] Given to him by either Aife or Scathach, the Gae Bolg was the spear of this hero of Ulster.

Answer: **Cuchulainn**

5. (MD) Answer some questions about data structures from computer science, FTPE.

[10] It operates on the principle of first in, first out, meaning that in order for an item to be removed, every item added before it must have already been removed.

Answer: **Queue**

[10] Often used in priority queues, they come in min and max varieties, are usually stored in arrays, and by definition must be complete binary trees.

Answer: **Heaps**

[10] It is similar to a list, but its elements are not ordered, and it does not allow more than one element in it. Iterators are used to traverse its elements.

Answer: **Set**



6. (MD) Given a description of the politics of the East African nation, identify it FTPE.

[10] Political organizing was banned here until 2003, and the largest problem facing the government is the reintegration of more than 2 million refugees, including Hutu and Tutsi.

Answer: **Rwanda**

[10] Colonel Azali Assoumani seized power in a bloodless coup in this country in 1999 and has done a more or less okay job governing from Moroni.

Answer: **Comoros**

[10] In 2005 a Senate was reintroduced in this country in which Robert Gabriel Mugabe has led since 1980.

Answer: **Zimbabwe**

7. (TV) FTP, each – given descriptions, identify the following functional groups from organic chemistry.

[10] Classes of this type of organic compound can be described by one or more OH groups attached to a carbon atom of an alkyl group.

Answer: **alcohols**

[10] Grignard reagents react with these to form tertiary alcohols. Their functional group is a carbonyl group where the central carbon is covalently bonded to an oxygen atom.

Answer: **ketones**

[10] This group is characterized by a cyano group bonded to a carbon atom.

Answer: **nitriles**

8. (DU) Given a protagonist of a game in the Final Fantasy series, name the game of the Final Fantasy series in which he or she appears for ten points each.

a. Barrett Wallace

Answer: Final Fantasy **VII** (seven)

b. Vivi

Answer: Final Fantasy **IX** (nine)

c. Gogo

Answer: Final Fantasy **VI** (six) or Final Fantasy **III** (accept either; it's a long story)

9. (OU) Rome was home to some of the greatest poets in history of the world. F10PE:

A. Greatly admired by Dante, he was forced to commit suicide after his part in the abortive conspiracy of Gaius Calpurnius Piso was discovered. His best known work is his epic *Pharsalia* or *Bellum Civile*, which tells of the civil war between Caesar and Pompey and which many modern critics argue is an anti-epic.

Answer: **Lucan** or Marcus **Annaeus Lucanus**

B. A freedman's son, he served in Brutus' army at Philippi, but fled, thus saving his life. He worked exclusively in Greek meters and he is remembered as the originator of such phrases as "dulce et decorum est mori pro patria", "aurea mediocritas", and "carpe diem".

Answer: **Horace** or Quintus **Horatius Flaccus**

C. He was banished to Tomis on the Black Sea in present-day Romania because of, according to him, a mistake and a poem. His many works include the *Tristia* and the *Fasti*, but he is best remembered today for his *Ars Amatoria* and *Metamorphoses*.

Answer: **Ovid** or Publius **Ovidius Naso**

10. (OU) Identify the following male ballet dancers from a brief description F10PE.

A. He is said to have had an affair with Anthony Perkins and some credit his appearance on the struggling The Muppet Show with saving it. He died of AIDS-related complications in 1993 and is best known for his dramatic defection in Paris, and his work with Margot Fonteyn and the Royal Ballet.

Answer: **Rudolf Nureyev**

B. During the final season of *Sex and the City*, he had a recurring role opposite Sarah Jessica Parker, with whom he had worked in an American Ballet Theatre production of *La Sylphide*. He has a daughter with actress Jessica Lange and from 1990 to 2002, he was the artistic director of the White Oaks Dance Project, which he co-founded with Mark Morris.

Answer: **Mikhail Baryshnikov**

C. He was a lover of his patron, Sergei Diaghilev, founder of Les Ballets Russes. He choreographed *Afternoon of a Faun*, in which he masturbated with the faun's scarf, and *The Rite of Spring*, which caused a riot during its premier in Paris.

Answer: **Vaslav Nijinsky**

11. (TV) FTSNOP, given a year, identify the runner-up in that year's US presidential election.

[5] 1960

Answer: Richard **Nixon**

[5] 1952 and 1956

Answer: Adlai **Stevenson**

[10] 1912

Answer: **Theodore Roosevelt**

[10] 1936

Answer: Alf **Landon**

12. (DU) For ten points each, answer these questions about liver disease.

This frequent side effect from liver disease is a result from the buildup of bilirubin, a by product from retiring red blood cells. Its symptoms are yellowing of the skin and eyes.

Answer: **Jaundice**

Five different viruses have been identified as causes of this type of liver disease; at least ten more are being studied.

Answer: **Hepatitis**

Alcohol and viral liver disease are common causes of this condition in which normal liver cells are replaced by scar tissue.

Answer: **Cirrhosis**

13. (MD/CS) Given works written by Nobel-Prize winning authors, identify the author on a 10-5 basis.

[10] *The Fighting Angel, East Wind: West Wind*

[5] *The Good Earth*

Answer: Pearl S. **Buck**

[10] *Happy Days, Come and Go, Ohio Impromptu*

[5] *Krapp's Last Tape, Endgame*

Answer: Samuel **Beckett**

[10] *State of Siege, The Just Assassins*

[5] *The Plague, The Fall*

Answer: Albert **Camus**

14. (MD) FTSNOP, identify the Peter Sellers roles from descriptions.

[5] Many agree Sellers' best turn as this clueless detective was in *A Shot in the Dark*, the first sequel to *The Pink Panther*.

Answer: Inspector Jacques **Clouseau**

[5] Sellers did triple duty as Group Captain Lionel Mandrake, President Merkin Muffley, and this character in the 1964 Stanley Kubrick film of the same name.

Answer: **Dr. Strangelove**

[10] In *Being There* Sellers played this TV-obsessed and mentally deficient, or at least clueless, yard worker who becomes an influential economics advisor after making the right friends

Answer: **Chance or Chauncey Gardiner**

[10] Sadly, *Being There* was not Sellers' last film performance – he played an allegedly comic version of this once-popular villain depicted in numerous Sax Rohmer novels.

Answer: **Dr. Fu Manchu**

15. (OU) Answer the following about the breakup of Yugoslavia FTPE.

A. (10) As part of his plan to play on Serbian nationalism, Slobodan Milošević reduced the independence of these two semi-autonomous Serbian provinces. FTP name either of these two provinces, one in the north with a large Hungarian minority, and the other in the south with its predominantly Albanian Muslim population.

Answer: **Vojvodina or Kosovo** (also accept Kosovo and Metohija, which is a single entity)

B. (10/10) On June 25, 1991, these two of the constituent republics declared their independence from Yugoslavia.

Because of international pressure and the Brioni Agreement, they placed a three month moratorium on their secession. Name them FTPE.

Answer: **Croatia and Slovenia**

16. (OU) Science-fiction just wouldn't be the same without automatons. F10PE, name the author from robots they wrote about or, F5P, if you need the work the robots appeared in.

A. 10) Trurl and Klapaucis

5) *The Cyberiad*

Answer: Stanislaw **Lem**

B. 10) Primus and Helena

5) *R.U.R.*

Answer: Karel **Čapek**

C. 10) Rachel Rosen and Wilbur Mercer

5) *Do Androids Dream of Electric Sheep?*

Answer: Philip K. **Dick**

17. (MD) Identify the following about the Incan empire FTPE.

[10] This was the language of the Inca Empire. It is still spoken in various dialects by about 10 million people.

Answer: **Quechua**

[10] Atahualpa only reigned for a few short years before the coming of Pizarro thanks to a civil war he fought against this brother.

Answer: **Huascar**

[10] This city in the shape of a puma, and not Machu Picchu, was the Incan capital.

Answer: **Cusco**

18. (OU) Though it is only a theory, plate tectonics is far less contentious than evolution. In the interest of avoiding controversy, F10PE, identify the following tectonic plates from a brief description.

A. The Farallon Plate, an ancient oceanic plate which has been subducting beneath the North and South American Plates since the Jurassic, is now three minor plates. Name any of those three, one created the Cascades and is subducting near the Pacific Northwest, another is forming the Andes, and the third is subducting beneath the Caribbean Plate.

Answer: **Cocos Plate** or **Juan de Fuca Plate** or **Nazca Plate**

B. This plate, associated with the formation of the Red Sea rift zone and the Great Rift Valley, shares its name with the peninsula which dominates its surface.

Answer: **Arabian Plate**

C. Named for the large island group located on it, this plate converges with the Eurasian and North American Plates at Mt. Fuji in Japan and its northernmost point is Izu Peninsula.

Answer: **Philippine Plate**

19. (OU) The Virgin Mary has long been a subject for painters in the Western World. F10PE, identify the following about depictions of her.

A. In this Norwegian expressionist's work, *Madonna*, Mary is portrayed more sensually, if not erotically, than is customary, including her bare breasts and a provocative pose. Nonetheless, her closed eyes, indicating modesty, her calm confidence, and the fact that she is lit from above are all considered to be canonical elements.

Answer: Edvard **Munch**

B. This oft-reproduced work by Leonardo da Vinci features Mary with a toothless grin, which is thought by some to be an indication that the work, like many of Leonardo's paintings, was unfinished. For many years it was thought lost before it was exhibited in St. Petersburg in 1909, when it received its common name.

Answer: **Madonna and Child with Flowers** or **The Benois Madonna**

C. Sometimes called the Stroganoff Madonna and the Stroclet Madonna for two of its previous owners, this work by Duccio di Buoninsegna is a famous depiction of Mary from the early Renaissance. It was purchased by the Metropolitan Museum of Art in 2004 for \$45 million.

Answer: **Madonna and Child**

20. (TV) FTP, each – identify the following about everyone's favorite Hindu epic, the *Ramayana*.

[10] This demon king kidnaps Sita and is Rama's chief antagonist.

Answer: **Ravana**

[10] This monkey-general is sent by Sugriva to aid Rama in rescuing Sita.

Answer: **Hanuman**

[10] While in exile, Rama leaves these objects on his throne to represent his reign over Ayodhya.

Answer: **sandals**

21. (DU) Give the titles of these poems by Robert Browning by the final lines given FTPE:
- Though his fair daughter's self, as I avowed / At starting, is my object. Nay, we'll go / Together down, sir.  
Notice Neptune, though, / Taming a sea-horse, thought a rarity, / Which Claus of Innsbruck cast in bronze for me!  
Answer: **My Last Duchess**
  - And thus we sit together now, / And all night long we have not stirred, / And yet God has not said a word!  
Answer: **Porphyria's Lover**
  - Blasted lay that rose-acacia / We're so proud of! Hy, Zy, Hine... / "St, there's Vespers! Plena gratia / Ave,  
Virgo! Gr-r-r – you swine!  
Answer: **Soliloquy of the Spanish Cloister**
22. (OU) They say that diamonds are a girl's best friend, but does that mean that garnets are a girl's acquaintances? Identify the following gemstones from a brief description.
- A. Ranging in color from sapphire blue, to violet, to sage-green, this stone's name was coined by Tiffany and Co. after its discovery in 1967 in its namesake country. It is a popular gemstone in the US today and it is noted for having a strong trichroism, but a process of heating them to improve their color mostly eliminates that.  
Answer: **Tanzanite**
- B. In the Epic of Gilgamesh, this is the stone from which the horns of the Bull of Heaven are made. Noted for its striking blue color, its primary source is found in Afghanistan, in the same mines which provided this gem for the Egyptian pharaohs. Those same mines helped to fund the mujahideen during their war with the Soviet Union.  
Answer: **Lapis lazuli**
- C. It may be grey, red, brown, blue, green, black, yellow, white, clear or milky blue and this mineraloid is an amorphous, hydrated silicon dioxide. Over 95% of the world's supply of this gem comes from Australia, but common, fire, and glass varieties can be found in Central America.  
Answer: **Opal**
23. (OU) We all know Sir Christopher Wren as the man who rebuilt London after the Great Fire, but how well do you know the buildings he designed?? F10PE:
- A. After the Great Fire destroyed much of London, Wren was commissioned to design replacements for the city's churches, including this one, which became his most famous work. It is the site of the famous Whispering Gallery and it played host to the wedding of Prince Charles and Lady Diana.  
Answer: **St. Paul's Cathedral**
- B. Originally built as the gateway between London and Westminster, where Fleet Street becomes the Strand, this structure has since been moved to Paternoster Square north of St. Paul's Cathedral. It is the only extant example of the eight primary gateways to London, with the others all destroyed by 1800.  
Answer: **Temple Bar**
- C. Co-designed by Robert Hooke, this structure is a large Doric column with a brazen urn at the top and it stands as a memorial to the Great Fire of London, which started a mere 61 meters from its site on Fish Hill Street.  
Answer: **The Monument or Monument to the Great Fire of London**