**VETO 2012 July 28, 2012**

**By: Jay Misuk, Jordan Palmer, Andrew Almas**

1. The author of this work intended it as a response to the Licensing Order of 1643, which he claimed to be a product of the Catholic machinations of the recently defunct Star Chamber. Written during the English Civil War, it has been argued that the author based his viewpoint on John 8:32, and this emboldened his stand against perceived attempts by Parliament to censor writers and stifle certain rights guaranteed by previous laws. In this work, the author claims that books “contain a potency of life”, and that “he who kills a good book, kills reason itself”. Taking as inspiration the classical notions of freedom of publishing and freedom of speech, the author, who is perhaps more famous for his poetry concerning the fall of man and his eventual redemption, especially draws upon the writings of the Athenian orator Isocrates. FTP, what is this polemical pamphlet of John Milton, which takes its title from the hill in Athens that was the site of tribunals which Isocrates wished to restore?

Answer: **Areopagitica** (also accept: **Areopagitica: A speech of Mr. John Milton for the liberty of unlicensed printing to the Parliament of England**)

2. This concept has been described as being a fundamentally optimistic human endeavour, and since 1966, the United Nations’ International Covenant on Economic, Social and Cultural Rights guarantees this concept as a human right under Article 13. Societies around the world treat this concept differently, and even within societies this concept is often compartmentalized into kinds pertaining to children, adults, exceptionalities, and religion. Joseph Renzulli is a noted expert in this field, recommends varying the experiences of this concept in order to optimize proficiency and to enrich the experience of its participants. Recently it has been argued that this concept should be divided into three different modes pertaining to how this is experienced, and then participants will be better engaged. FTP, what is this concept that can be approached from both behaviourist and functionalist viewpoints, which is defined as the process by which society can deliberately pass on accumulated and shared skills, knowledge, and values through the generations?

Answer: **Education** (accept anything to do with general learning)

3. Based off of an oral tradition almost 500 years old, this movie begins with the song and spiritual duel between a shaman and camp leader, who suddenly falls dead, thus initiating a curse which will plague the camp with bad luck and ill-will for years. The main character, who is the son of a man disgraced by the curse, wins the right to marry his first wife via a head-punching duel at a feast. However, this marriage is sullied by his acquisition of a second wife while on the hunt, and after he beats her for not working enough, she flees to his rival Oki, who vows revenge. Having gathered a gang of allies, Oki attempts to murder the main character, although he escapes from his tent naked and unharmed, and proceeds to outrun them across the ice, even managing to leap across a broad hole with help from the spirit of a man who will eventually help him to recover in hiding. While away, Oki seizes leadership of the camp, but the main character overpowers them, and Qulitalik defeats the shaman to restore order in, FTP, what Inuit film about a legendary ‘fast runner’, Canada’s top-grossing film for 2002?

Answer: **Atanarjuat**: The Fast Runner

4. This was first described by its namesake in 1930, using a quantum mechanical theory based on second-order perturbation theory. According to this explanation, no intermolecular antisymmetrization of the electronic states is included, and the Pauli exclusion principle is only partially satisfied. Looking at the effects of this, it has been found that although for highly polar molecular pairs such as H2O-H2O the effect of this only accounts for 24% of the total energy interaction, for the most part, as with HBr-HBr and Ne-Ne pairs, the effect of this makes it the dominant of the three Van der Waals forces. This force is present between all chemical groups, but is generally weaker than ionic and hydrogen bonds; however, without this there would be no attractive force between noble gas atoms. FTP, what is this type of dispersion force that becomes stronger with increasing surface area, a weak intermolecular force arising from quantum-induced instantaneous polarization multipoles in molecules, named after a certain German-American physicist?

Answer: **London dispersion force** (also accept: Instantaneous dipole-induced dipole force)

5. One of the records held by this player is “most team’s played on by a 1,000 point scorer”, having played on nine separate teams. This player spent time with the Sault Ste. Marie Greyhounds and Kitchener Rangers while in junior hockey. When he retired in 2000 he was ninth in NHL career points, but currently sits at thirteenth overall having recently been surpassed by Mark Recchi, Joe Sakic, and former teammates Mario Lemieux and Jaromir Jagr. Though he retired as a Boston Bruin, and is second all-time in NHL defenceman scoring, he is not the highest scoring Bruins defenceman, as that title is held by Raymond Bourque. This player was drafted sixth overall by the Edmonton Oilers in 1980. Perhaps best known for his blazing speed and scoring prowess and his NHL record of “most goals in one season by a defenceman”. FTP name this Edmonton Oilers and Pittsburgh Penguins great who played on dynasties with both Wayne Gretzky and Mario Lemieux, and whose last name sounds like a hot beverage.

ANSWER: Paul **Coffey**

6. He self-identified as a communist, an aetheist, and a pessimist, and part of his name was apparently mistakenly added by the birth registrar. His short story “The Tale of the Unknown Island” uses metaphor to convey themes of discovery and criticism of bureaucracy, which are characteristic of most of his works. In addition to short stories and poetry, such as “The Year 1993”, he wrote plays that have yet to be translated into English, such as *One Night*, and *The Second Life of Francis of Assisi*, as well as a travel book about his home country. He is well-known in his home country for novels including *This World and the Other*, *The Appointments*, *Handbook of Painting and Calligraphy*, and *The Little Memories*. FTP, who is this prolific author of peasant-birth, who won the Nobel Prize for Literature in 1998, who is perhaps best-known for his novels *Cain*, *The Stone Raft*, *The Death of Ricardo Reis*, and *The Gospel According to Jesus Christ*?

Answer: Jose de Sousa **Saramago**

7. Tribes who lived in this region included the Osismii, Veneti, Coriosolites, Redones, and Namnetes, and the late Roman magister militum Aetius apparently had soldiers from this region fight with him against Atilla at the Battle of Chalons. Its Gaulic name Aremorica most likely means “place by the sea”, although human settlement in this region existed well before the Gauls entered the area, as evidenced by such the megaliths found at sites such as Carnac. This region’s fortified town of Saint-Malo was the home and port-of-call of Jacques Cartier, as well as the first colonists to settle the Falkland Islands, hence the French name “Iles Malouines”. A tri-lingual region, it was united with the Kingdom of France in 1532, although its current name is related to that of a nearby island belonging to the United Kingdom. FTP, what is this region of northwest France, home to such cities as Nantes, Rennes, and Brest, the home of comic character Asterix, known in its native language as Breizh?

Answer: **Brittany** (also accept: Bertaeyn, Bretagne; **Armorica** or **Breizh** before mentioned)

8. Most species of this marine phylum went extinct during the Permian-Triassic extinction event, and although they possess both dorsal and ventral valves, they are not to be confused with bivalve molluscs, which are arranged horizontally, rather than vertically. Similar to molluscs, members of this phylum have a mantle which encloses internal organs which also has diverticula which may contribute to respiration. Members of this phylum have what is known as a lophophore, which has ciliated tentacles used for filtering food particles out of water. The most distinctive feature of this phylum is the pedicle, which this phylum uses to attach to the sea floor, although this is not functional in some species. Most members of this phylum can repair themselves if needed, although this is infrequent as apparently fish and crustaceans find them distasteful. FTP, what is this marine phylum, home to the inarticulate Lingula genus which has been described as a ‘living fossil’, with a name coming from the Greek for “arm-foot”.

Answer: **Brachiopoda**

9. Scriptural support for this concept comes from such readings as John 1:42, Mark 3:16, and Matthew 10:2, which refer to Simon receiving a name related to the Greek word for ‘rock’. Historical examples of this concept being exercised were the Bull Unam Sanctam issued by Boniface VIII, the Bull Cantate Domino issued by Eugene IV, and through the Papal constitution of Ineffabilis Deus, promulgated by Pius IX. Related to this dogma are the concepts of Sacred Scripture, Sacred Tradition, and Sacred Magisterium, which consists of ecumenical councils and must be based off of the Sacred Scripture and Sacred Tradition. In order for this dogma to be recognized, certain formulas must be used to clarify the intent of a teaching, and there must be an accompanying anathema. In particular, this concept refers to teachings made *ex cathedra*, because the Pope is said to occupy the chair of Peter. FTP, what is this Catholic dogma that, supported by the primacy of the Roman pontiff, renders such dogmas as Pius XII’s definition of the Assumption of Mary to be free from even the possibility of error, although it does not guarantee impeccability?

Answer: **Papal Infallibility**

10. This man may have undergone conversion to Roman Catholicism on his deathbed, although this has been disputed by his daughter. Critic William York Tindall described this author as a politically conservative Republican, and after working as a lawyer for many years, only gradually took up poetry. The literary critic Harold Bloom compared this poet to Sophocles, referring to him as the quintessential American poet, in reference to works like *Harmonium*. He wrote that “The poem must resist the intelligence/ Almost successfully” when referring to the relationship between consciousness and the world, and wrote “Poetry is the supreme Fiction, madame” in his satirical poem “A High-Toned Old Christian Woman”. FTP, who was this poet who allegedly broke his hand punching Ernest Hemingway in the jaw, famous for works such as “The Idea of Order at Key West”, “Thirteen Ways of Looking at a Blackbird”, and “The Emperor of Ice Cream”?

Answer: **W**allace **Stevens**

11. This ruler’s reign began under a succession of four regents, Sonin, Ebilun, Sukasha, and Oboi, as well as under the influence of his grandmother. One of the longest-reigning rulers in history, this ruler was the first of his dynasty to be born south of the Shanhai Pass, making him the first of the dynasty to live his entire life at the imperial capital. A member of the Aisin-Gioro clan, he inherited the task of his father, the Shunzhi Emperor, improving infrastructure, consolidating rule, and suppressing revolt. Over the course of his 61-year long reign, this emperor suppressed the Revolt of the Three Feudatories, defeated and forced tribute from the Kingdom of Tungning, halted Russian expansion at the Amur River, and compiled a famous namesake dictionary. FTP, who was this 4th Qing emperor, who initiated the period known as the “Prosperous Era of (this emperor) and Qianlong”, considered one of China’s greatest rulers?

Answer: **Kangxi** (also accept: Qing Shengzu, Elhe Taifin Huwangdi, Kangxidi)

12. The invention of bubble chambers and spark chambers led to the discovery of growing numbers of hadrons, which could be classified according to charge and isospin by Wigner and Heisenberg, and later to strangeness by Gell-Mann and Nishijima, all of which seemed to indicate the existence of non-fundamental particles that would need to be accounted for by a new theory; discussion of this by Bogolyubov, Struminsky, and Tavchelidze set off a flurry of debate and experimentation that would eventually lead to this new theory. Although in some applications it eventually developed into string theory, the S-matrix theory was abandoned in favour of this non-Abelian gauge theory because of its ability to solve problems of strong interactions within field theory. Describing properties of confinement and asymptotic freedom, the study of which won Politzer, Wilczek and Gross the 2004 Nobel Prize in Physics, this is, FTP, what theory about a fundamental force which describes the interactions of the quarks and gluons which make up hadrons such as the proton, neutron, and pion?

Answer: **Quantum Chromodynamics** (also accept: QCD)

13. One of this man’s poems, written in a series of rhyming couplets, ends with the lines “O God, in Thy great mercy, let us nevermore forget; The graves they left behind, the bitter graves”, and was intended as an homage to British victims of the 2nd Boer War. Another poem, written while working as a store clerk in Cowichan Bay, dotes on the melodies of plants and trees and how England shall “hearken, and she’ll understand”. Before moving to the place for which this poet is most famous, he wrote a poem presaging a place where, “When a man gits on his uppers in a hard-pan sort of town…An’ he’s in a fix for a lodgin’ an’ he wanders up an’ down”, called *The Little Old Log Cabin*. Amid recitations of the poetry of others, this poet began to be recognized for such works as *The Call of the Wild*, thriller novels like *The Roughneck, A Tale of Tahiti*, and eventually played himself in the movie *The Spoilers*. However, it is for two certain poems for which he is most famous, including one about the demise of a prospector after a piano-playing stranger arrives to settle a grudge. FTP, who was this British poet of frontier poetry, writer of such works as the *Shooting of Dan McGrew*, and *The Cremation of Sam McGee*?

Answer: Robert W. **Service**

14. Found in the MOMA, this piece features a series of primary colours and shades arranged in contrast to earlier works by the artist, such as *The River Amstel*. It is an oil on canvas, 50x50”, and was the penultimate painting of its creator. The painting was influenced by the syncopation, melodic freedom, and improvisation of a certain music style that the artist encountered upon fleeing Europe with the outbreak of World War II. Providing the visual backdrop for this piece was the dynamic architecture of his city of asylum, which contributed to the replacement of a black grid with yellow lines intersecting with squares of blue and red, which seem to emulate a street scene as viewed from an apartment suite. FTP, what is this painting, which depicts an urban layout with the movement of traffic, electric lights and jazz rhythms, one of the seminal works of Dutch artist Piet Mondrian?

Answer: **Broadway Boogie Woogie**

15. This object is optically invisible due to the effect of 25 magnitudes of extinction between the source and the Earth, although attempts to image it in the radio spectrum are being made using Very Long Baseline Interferometry. It is approximately 26,000 light years away, and has been measured to have a mass of 4.3 x 106 solar masses. It was discovered by Balick and Brown in 1974 using the baseline interferometer at the National Radio Astronomy Observatory and by monitoring the motion of nearby star S2, Schodel determined that this object neither contains a cluster of dark stellar objects nor a mass of degenerate fermions, but rather is something much more massive and unstable. FTP, what is this object, located in the direction of a Zodiac constellation, which is believed to potentially be a supermassive black hole located at the centre of the Milky Way galaxy?

Answer: **Sagittarius A\*** (Pronounced “Sagittarius A-star)

16. The victors in this battle had numerical superiority at 2-to-1, as well as advance notice of the impending attack and strategic tactical advice which came from a rival of the leader of the attacking army. This rival, Durad Brankovic, had earlier been accused of abandoning the Christian cause by Skanderbeg of Albania, and had his lands ravaged; this action, combined with his dislike of the Hungarian leader John Hunyadi, led to Brankovic’s allegiance switching to the Ottomans. Hunyadi had anticipated an uprising against Ottoman rule from across the Balkans, and moved on through Serbia, past the capital Smederovo, unwilling to wait for Skanderbeg and unable to gain support from Brankovic other than free passage. Eventually Hunyadi arrived at Blackbird Field accompanied by a force of Wallachians, who engaged the Ottomans under Murad II and his son Mehmed. The Ottoman Rumelian and Anatolian forces were losing until reinforced by Turkish light cavalry. The the Janissaries proved their allegiance to Murad, and managed to ravage Hunyadi’s retreating forces, opening the Balkans to Ottoman domination. FTP, what was this battle, the 2nd to take place at a certain Serbian principality centered on Pristina?

Answer: 2nd **Battle of Kosovo** (also accept: Masodik Rigomezei Csata; Ikinci Kosova Savasi)

17. This polity’s name translates to ‘land of transhumance’, and is home to 3 main ethnic groups. Throughout history, this polity has belonged to a series of empires, which valued this region for its gold, salt, and major trading posts. In the distant past, this region was home to a giant marsh peppered with lakes, although today that has been dried up and replaced with Aeolian deposits and a major river accompanied by a minor floodplain. One notable feature in this polity is the Adrar des Ifoghas, which is a massif of about 250 000km2 surrounded by the Tamesna plain to the east, Telemsi fosse to the west, Tanezrouft to the north, and the Azaouak Valley to the south. Water comes from a major river shared with many other polities, as well as through groundwater deposits that surface at various gueltas around the region. Home to such major ethnic groups as the Maliki Sufi Tuareg, Moors, Fulas, and Songhay, the MNLA declared independence for this polity in 2012 under Bilal Ag Acherif. FTP, what is this breakaway republic of Mali, consisting of the former regions of Gao, Kidal, and Timbuktu?

Answer: **Azawad** (prompt on early buzz on Mali)

18. A giant clock intended to keep track of this statistic built in 1993 toured its country until it was temporarily retired in 1997, and was intended to raise public awareness of the potential issues surrounding this statistic’s increase. Public and market feedback regarding this statistic and its handling were kept largely within the hands of the Finance Minister, which after this statistic started to rapidly increase in the 1990’s, began to grab more public attention. Liberal Finance Minister Paul Martin introduced reforms which allowed for early release of the budget so as to inform citizens and corporations alike of intentions to deal with this statistic, which has since begun to be ascribed to each citizen, instead of being solely the government’s responsibility. In 2002, the calculation for this statistic was changed due to adapting the concept of “accumulated deficit”. In 2011, the ratio of this statistic to GDP was pegged at 83.5%, placing its nation between the European Union and Belize, well ahead of places like Zimbabwe at 230.8%. FTP, what is this statistic, estimated to be growing by about $2000/second, defined as the amount of money owed by the government of a certain country to holders of its treasury security?

Answer: **Canada’s Public Debt**

19. The Hopi perform an annual dance inspired by this creature in order to renew the fertility of the Earth, and the Magna Dei was often accompanied by these as familiar spirits. The Dahomeyan god Danh took the form of this creature in order to prevent the world from falling apart, and the legendary Fu Xi, the first of the Three Sovereigns of ancient China, was often depicted as having the body of this creature, as did his wife Nu Wa. In 1931, Clyde Tombaugh discovered Pluto in the constellation known as the bearer of this type of creature, and this constellation is often referred to as the 13th of the zodiac. Illuyanka, Ophion, Damballa, Coatlicue, Vritra, and Ogopogo all are, FTP, deities associated with this type of creature believed by the ancients to be intelligent and cunning due to their unblinking eyes, and which has often symbolised the umbilical cord connecting humans to Mother Earth?

Answer: **Serpents** (also accept: Snakes, other serpent-like things)

20. Christopher Pearce Cranch was an artist and writer associated with this school of thought, as was the author of what critic James Russell Lowell called “the most emphatically American book ever written”, Sylvester Judd. Early members of this school of thought drew inspiration from such wide sources as German realists like Fichte and Schelling, English romantics like Caspar David Friedrich, and Vedic thought, particularly the Bhagavad Gita. The short story “Never Bet the Devil Your Head” was a direct attack on this school of thought, which was also satirized in *The Blithedale Romance*. The 1836 essay “Nature” is generally considered to be the spark for this movement, which although it began to die out by the 1850’s, experienced a second wave under such writers as Samuel Longfellow, Franklin Benjamin Sanborn, and Octavius Brooks Frothingham. FTP, what is this school of thought that is centered on the belief that ideal spirituality can only be realized through one’s intuition, represented famously by such figures as Emily Dickinson, Margaret Fuller, Henry David Thoreau, and Ralph Waldo Emerson?

Answer: **Transcendentalism**

21. The global existence of this feature was confirmed due to analysis of earthquake waves caused by the Great Chilean Earthquake of 1960, but it had been suspected since the 1920’s. Its name is a compound that includes the Greek word for ‘weak’, due to its high viscosity and high ductility. Seismic waves are believed to move relatively slowly through this layer of the mantle, although it is not to be confused with the Low-Velocity Zone, which does not penetrate as deep. At mid-oceanic ridges, this layer may rise to within a few kilometres of the ocean floor, although the base of this layer is most likely about 700 km in depth. FTP, what is this layer of the upper mantle, which is believed to cause the movement of crustal plates due to the lithosphere floating on its highly ductile surface?

Answer: **Asthenosphere**

22. Its prologue is the shortest of any of its author’s known plays, but there is uncertainty as to whether the author actually composed it or whether it was added on later. This play is an example of ‘Palliata comoedia’, a genre devised by Livius Andronicus, and like many of this author’s plays contains an explicit stock character which is characteristic of many of his other, less-complete plays. In this play, Calidorus, the young son of an Athenian nobleman, laments to the titular character that his love-interest Phoenicium has been sold as a slave to the Macedonian general Polymachaeroplagides by the pimp Ballio. Hilarity ensues as the titular character attempts to get the girl for Calidorus, win a bet from Simo, and outwit half the town while making preparations for his own birthday party. This play was one of the major influences in the production of Sondheim’s *A Funny Thing Happened on the Way to the Forum*. FTP, what is this comedy by Roman playwright Plautus, which, like *Miles Gloriosus* and *Mostellaria* features a stock character in the title character, who is described as a ‘clever slave’, played by Zero Mostel in the movie adaptation of *A Funny Thing Happened on the Way to the Forum*?

Answer: **Pseudolus**

23. As prince of Novgorod, this ruler was forced to flee to the court of his relative Hakon Sigurdsson in Sweden after Yaropolk murdered Oleg and conquered Rus. This ruler’s mother Malusha was described in various Norse sagas as having been a prophetess who lived to the ripe old age of 100, and had originally lived in a cave before being brought to the court of Sviatoslav I. In order to gain the throne promised to this ruler, he summoned a large band of Varangians from Scandanavia, conquered Polotsk and slew its leader Rogvolod in order to take his daughter Rogneda as his wife, and then took Smolensk before finally submitting Kiev and murdering Yaropolk, his brother. As knyaz of Kiev, he conquered what would become known as Galicia, subdued the Yatvingians, conquered the Volga Bulgars, and attempted to establish the primacy of Perun as supreme Slavic deity. FTP, who was this Grand Prince of Kiev, who is credited with the ‘baptism of Russia’ after envoys sent to experience the world’s religions were most impressed with Constantinople as a city, who died mustering an army to punish his insolent son Yaroslav the Wise?

Answer: **Vladimir** Sviatoslavich the Great (also accept: Volodymyr, Valdamarr Sveinaldsson)

24. This locale was built as a residence by Latvian American Edward Leedskalnin. Its location was moved in 1936 when development around the structure made it so that it was no longer a remote area. The motivation for its construction is thought to have arisen as a memorial to Leedskalnin’s 16 year-old fiancée Agnus Scuffs, who jilted him at one day prior to their wedding. This residence took 28 years to build, and was done solely by the work of Edward Leedskalnin himself, having claimed to constructed it using magnetic currents and a “perpetual motion holder”. The locale itself contains more than 1,000 tons of limestone quarried in South Florida, and built just outside of Florida City. FTP name this castle on the U.S. National Register of Historic Places featured on shows such as *That’s Incredible!* And *In Search of…* known as much for its giant obelisks and solid stone construction as it is for the mystery behind its construction.

ANSWER: **Coral Castle** (accept Rock Gate Park or Rock Gate)

**Bonuses**

1. The Thirty Year’s War was a time of massive upheaval in central Europe resulting in approximately 8 million casualties. Answer the following about the opening of hostilities, FTPE:

A. Although the origins of this conflict are very complex, this event that saw an assembly of Protestants under Count Thurn express their distaste of a recent imperial election via a certain action.

Answer: 2nd **Defenestration of Prague**

B. This was the former King of Bohemia, a Catholic who had been elected to lead the Holy Roman Empire, ostensibly the reason for the de-windowing of his representatives. He succeeded Matthias as emperor.

Answer: **Ferdinand II**

C. The revolting Bohemians called out to the Protestant Bethlen Gabor, leader of this polity, as an ally, who led a campaign into Hungary with the support of Osman II, which made the Ottomans become the first major power to support the Protestant side in the conflict.

Answer: **Transylvania**

2. Everyone loves Russian theatre! So why not answer some questions about playwrights from the motherland, who are not Anton Chekhov, FTPE:

A. This famous playwright, notable at home for such plays as *Adam and Eve*, *Zoya’s Apartment*, and *Flight* may be better known to Western audiences for his novel *The Master and Margarita*, claimed to be one of the 20th century’s masterpieces.

Answer: Mikhail Afanasyevich **Bulgakov**

B. Now name this Soviet author, a founder of Socialst realism, who wrote such plays as *Summerfolk*, *The Lower Depths*, and *The Children of the Sun*.

Answer: Maxim **Gorky** (also accept: Alexei Maximovich Peshkov)

C. This female playwright wrote the libretto for the play *Fevey*, which is notable for being the first of the Russian fairytale operas, although she is perhaps more famous for being foremost among enlightened despots in the 18th century.

Answer: **Catherine II** the Great (also accept: Sophie Friederike Auguste von Anhalt-Zerbst-Dornburg)

3. Some people can be fiercely independent, but none are as proficient perhaps as the societies known as ‘uncontacted peoples’. Identify these if you can find them, FTPE:

A. Perhaps the most famous of the uncontacted peoples are these inhabitants of a namesake island in the Indian Ocean, administered as part of the Indian territory of the Andaman and Nicobar Islands. They violently reject contact, and seem to have been relatively unscathed by the Indian Ocean tsunami of 2005.

Answer: **Sentinelese** (also accept: Sentineli, Senteneli, Sentenelese, North Sentinel Islanders)

B. The Lacandon people were the last known uncontacted people in North America, having been contacted in 1924. They were discovered in this southern Mexican state near Guatemala, with capital at Tuxtla Gutierrez.

Answer: **Chiapas**

C. Five communities of this indigenous people of Ecuador, pejoratively known as Auca by the Quechua, continue to reject contact with the outside world. This people speak a language isolate, and infighting amongst them led to the highest murder rate for a society in the world, with 60% of deaths being caused by murder during the 1940’s and 50’s.

Answer: **Huaorani** (also accept: Waorani, Waodani, Waos)

4. Identify these modern-day champions of orchestral composition, film composers, FTPE:

A. Winner of five Academy Awards, four Golden Globes, seven BAFTA Awards, and 21 Grammys, this film composer is probably most recognizable for his scores for *Home Alone*, *Schindler’s List*, *Jurassic Park*, *Star Wars*, and many other classics.

Answer: **John** Towner **Williams**

B. Another well-known film composer is this German, who has worked on such films as *Kung Fu Panda 2*, *Rango*, *Mastermind*, and T*he Lion King*. Oh yeah, he also did *The Dark Knight*, *Gladiator*, and *Inception* among many others.

Answer: Hans Florian **Zimmer**

C. This Italian started his career composing scores for Spaghetti Westerns, which is perhaps how two of his songs, “The Grand Duel (Parte Prima)” and “Summertime Killer” made it into *Kill Bill*. He was nominated for an Academy Award for his work on The Gospel According to St. Matthew, and won for the score for Il Postino in 1996.

Answer: Luis Enriquez **Bacalov**

5. Although at its base clearly Indo-European, this myth system contains ample influence from the Hatti, and other Mesopotamian cultures. FTPE:

A. Identify this myth system, belonging to a certain Anatolian culture that spoke a language related to Luwian, whose thunder god Tarhunt’s battle with Illuyanka resembles the conflict between Indra and Vritra in Hindu myth.

Answer: **Hittite** (also grudgingly accept: Nesili)

B. Many deities and tales show relation to Greek myths, particularly story of the *Song of Kumarbi*. Kumarbi is the father of Tarhunt, and son of Anu, whose genitals he bit off and then spat out three new gods. His own son then conspired to overthrow him, thus linking Kumarbi to this Greek god whose story is related in Hesiod’s *Theogeny*.

Answer: **Cronus** (also accept: Kronos)

C. Besides sharing a penchant for hybrid animals with the Greeks, the Luwians may have influenced the development of this character in Greek myth. In this case, the influence comes from the Luwian god of weather and lightning, Pihassassa.

Answer: **Pegasus**

6. Plutarch wrote a series of biographies of famous men, then paired them up to highlight and compare their virtues and shortcomings alike in a work entitled *Parallel Lives*. Identify the missing member of the pairs, FTPE:

A. Fabius Maximus, whose cognomen Verrucosus means ‘warty’, and whose agnomen Cunctator means ‘delayer’ in reference to his stall tactics in the 2nd Punic War, was a Roman politician and general who was paired with this famous Athenian statesman and orator, whose name translates to ‘surrounded by glory’.

Answer: **Pericles**

B. Eight-time Achaean strategos Philopoemen, who helped to turn the Achaean League into an important military power in the later 3rd century BCE was paired with this Roman general, famous for his conquest of Greece, where he was revered as a god for centuries afterwards.

Answer Lucius Quinctius: **Flamininus**

C. Finally, Agesilaus II of Sparta, who was according to Plutarch, “as good as thought commander and king of all Greece”, was paired with this Roman general whom Sulla addressed as ‘the Great’, and who was awarded three triumphs. He was defeated by a rival triumvir at Pharsalus in 48 BCE.

Answer: **Pompey** (also accept: Gnaeus Pompeius Magnus

7. Do you know your sculptures? If you don’t, you’ll probably have some trouble with these questions about some famous ones, FTPE:

A. The artist’s name is inscribed on a strap across the titular hero’s chest, who stands on a slain corpse wearing winged sandals and holding the sword with which he was able to achieve the scene depicted by this sculpture.

Answer: **Perseus with the Head of Medusa**

B. This English sculptor was famous for semi-abstract monumental bronzes and public works of art, especially his reclining figures which were influenced by Chac Mool stone statues at Chichen Itza. Famous works include *West Wind*, *Family Group*, and *Reclining Figure*.

Answer: **Henry Moore**

C. The original version of this sculpture is believed to have been commissioned by Attalus I of Pergamon in commemoration of his victory over a certain people in Anatolia. The surviving copy is by a Roman artist, which is suitable because of the many real-life versions of this that Julius Caesar would have caused.

Answer:The **Dying Gaul** (also accept: Galata Morente)

8. Up here in Canada, World War I was a big deal, so most students have to learn about it for over a month in grade 10. To help educate our southern neighbours, answer these questions about non-US involvement in the Great War, FTPE:

A. The first battle of this location, which happened in the fall of 1914, was the culmination of the Race to the Sea, and although it was a decisive Allied victory, the battle witnessed the destruction of the highly experienced British regular army, necessitating mass conscription.

Answer: 1st Battle of **Ypres** (also accept: 1st Battle of Flanders)

B. Philippe Petain won a narrow tactical victory over the forces of Erich von Falkenhayn at this 1916 battle in north-eastern France, which resulted in 306,000 battlefield deaths and at least 500,000 wounded, and has been referred to as France’s Stalingrad.

Answer: Battle of **Verdun**

C. Touted in Canadian schools as the battle at which ‘Canada became a nation’, this April 1917 battle saw the Canadian Corps under Julian Byng defeat the Germans under Ludwig von Falkenhausen via the innovation of the creeping barrage, which allowed the Canadians to capture a certain geographic feature by the end of the first day.

Answer: Battle of **Vimy Ridge**

9. Everyone loves video games…but do you know their history? Answer some questions about the development of early video games, FTPE:

A. This early ‘video game’ was developed by physicist William Higginbottom as a way to alleviate the boredom of visitors to the Brookhaven National Laboratory. Played on an oscilloscope, it is notable for being one of the first electronic games to use a graphical display.

Answer: **Tennis for Two**

B. One of the earliest 2-player games was this one that involved controlling a spaceship and trying to destroy your opponent. A star located at the centre of the playing field exerts gravity on the ships, and you could engage hyperdrive to warp at random. This was developed by Steve Russell at MIT in 1961.

Answer: **Spacewar!**

C. The first console of the first generation, this system by Magnavox was released in 1972 as the first home video game console, designed by Ralph Baer. It sold just over 300,000 units, supported a peripheral known as the “Shooting Gallery”, and the name may have been inspired by an ancient journey.

Answer: **Odyssey**

10. It seems that the English jumped on the prolific painting bandwagon rather later than the continent. Identify some painters from works, FTPE:

A. This social critic and satirist depicted himself with his pug in a 1745 painting, but is probably more famous for the six pictures of *Marriage a-la-mode*, *The Four Stages of Cruelty*, *Beer Street*, *Gin Lane*, and *A Rake’s Progress*.

Answer: William **Hogarth**

B. A portraitist and promoter of the ‘Grand Style’, this first president of the Royal Academy depicted the hero of Gibraltar in his portrait of Lord Heathdale, and painted “Robert Clive and his family with an Indian maid”.

Answer: Joshua **Reynolds**

C. One of the founders of the Pre-Raphaelite Brotherhood, this painter built his own house in Jerusalem so that he could gather accurate material for future religious works such as *The Scapegoat*, *The Finding of the Saviour in the Temple*, and *The Shadow of Death*.

Answer: William Holman **Hunt**

11. Answer some questions about a certain Japanese author and his works, FTPE:

A. This man wrote a plethora of works, many exploring themes of sexuality and eroticism, and first became known in Japan for his femme-fatale figures. He wrote such works as *The Secret History of the Lord of Musashi*, and an essay on aesthetics called *In Praise of Shadows*.

Answer: **Tanizaki** Junichiro

B. Tanizaki may be best known however for his work that deals with the themes of East vs. West, madonna vs. harlot, and fantasy vs. reality, which the main character, Kaname revels in.

Answer: **Some Prefer Nettles** (also accept: Tade Kuu Mushi)

C. The last of Tanizaki’s novels to be translated for an English audience, this work deals with a four-way bisexual love affair in aristocratic Osaka, and has been adapted to film numerous times, most recently in 2006. The character used to write the Japanese title of this work, *Manji*, is a swastika.

Answer: **Quicksand**

12. According to Davies and Feynman, these physical laws must be: true, universal, simple, absolute, stable, omnipotent, generally conservative of quantity, often expressions of existing homogeneities of space and time, and theoretically reversible in time. Identify some physical laws, FPTE:

A. Bosons are not subject to this law, formulated as a result of observations on chemical stability. This law is a quantum principle which states that no two identical fermions may occupy the same quantum state simultaneously.

Answer: **Pauli Exclusion** Principle

B. Variable-mass systems are not closed, and therefore cannot be dealt with by making mass a function of time in this law, which thus must be extended by rearranging the formula and accounting for momentum carried by mass entering or leaving the system.

Answer: **Newton’s 2nd Law of Motion**

C. These doubly-eponymous mathematical laws, or equations, arise from applying Newton’s 2nd Law to fluid motion, assuming that fluid stress is the sum of a diffusing viscous term proportional to the gradient of velocity, plus a pressure term.

Answer: **Navier-Stokes** equations

13. Tourism in Nunavut? You bet. The territory’s vast expanses of ice and tundra are home to many magnificent experiences, a few of which are going to be asked about, FTPE:

A. History buffs can make their way to the site of the Bloody Falls Massacre, located near this town, where in 1913 the two Copper Inuit murdered two priests sent to the area on a missionary expedition. The town is named after the waterfall, and is in an area where it has been proposed that Vikings managed to get to, given the existence of reddish hair and somewhat Western features of local Inuit?

Answer: **Kuglugtuk** (Also begrudgingly accept: Coppermine)

B. Don’t feel like flying? Well, you may need to wait a few years, but apparently there are plans for a road to be built from Thompson, Manitoba, through this town and up to Rankin Inlet that you could supposedly drive up, if you don’t mind driving through boreal forest for a couple days. This town is the 3rd largest in the territory, and is famous for being home to Susan Aglukark, and “The Johnny Cash of the North”, Simon Sigyariaq.

Answer: **Arviat** (Also begrudgingly accept with a wagging finger: Eskimo Point)

C. Movie buffs and mountaineers may feel like flying to Pangnirtung in order to become acquainted with this nearby national park, home to 800m Mt. Asgard, which featured in *The Spy Who Loved Me*, and the 1250m Mt. Thor. This park features many fjords, glaciers, ice fields, microclimates created by huddling vegetation, and lemmings. Its name means “The land that never melts” in Inuktitut.

Answer: **Auyuittuq** National Park

14. Early American literature? Why not answer some questions about it, FTPE:

A. This man has been considered to be the first American author, with his works *The Generall Historie of Virginia, New England, and the Summer Isles*, and *A True Relation of Such Occurrences and Accidents of Noate as Hath Happened in Virginia.* He also established Jamestown.

Answer: **John Smith**

B. A notable Bostonian theologian and historian, his works on God’s part in the success of New England include *Magnalia Christi Americana*, *Wonders of the Invisible World*, and *The Biblia Americana*.

Answer: **Cotton Mather**

C. Also known as Gustavus Vassa, this freedman helped to influence the passage of the Slave Trade Act of 1807 with his slave narrative, *The Interesting Narrative of the Life of* (this man) *or Gustavus Vassa, The African*, and also worked as a merchant and explorer who travelled to South America and the Arctic.

Answer: Olaudah **Equiano**

15. What happens when you take a bunch of religions and mash them together? Why, you get syncretic religions, of course. So let’s answer some questions about some of those crazy spiritual mash-ups, FTPE:

A. Its long name translates to “Great Religion of the Third Period of Revelation and Salvation”, but the form we are more familiar with translates to “high platform”. It is a combination of Christianity, Buddhism, Confucianism, Taoism, and has its Holy See at the city of Tay Ninh, about 90km away from Ho Chi Minh City.

Answer: **Cao Dai** (also accept: Dai Dao Tam Ky Pho Do)

B. Originating in the cities of Salvador, Bahia and Cachoeira, this religion incorporates Yoruba orisha-veneration, and is practiced by people known as “povo de santo”, or “people of saint”.

Answer: **Candomble**

C. This Mughal emperor and son of Humayun drew elements of Islam, Hinduism, Christianity, Jainism and Zoroastrianism together wanting to unite his diverse peoples under one religion, which he called Din-i-Ilahi, which is Persian for “divine faith”, although the venture did not survive without his ‘great’ rule.

Answer: Jalal ud-Din Muhammad **Akbar** the Great

16. Mainly found in eukaryotes, organelles are like tiny organs for cells, or at least that’s the idea. Identify some of those tiny organs, FTPE:

A. With a name coming from the Latin for ‘eyelash’, this organelle comes in two kinds: non-motile, or primary, which are found on almost every cell in the human body, and motile, which will wave around in order to move things or filter the environment.

Answer: **Cilium** (also accept: Cilia)

B. In Eutherian mammals, this organelle develops from the Golgi apparatus and can contain digestive enzymes used to break down the zona pellucid surrounding the ovum, and is located on the head of spermatozoa.

Answer: **Acrosome**

C. An example of a prokaryotic organelle is this one, which contains 15-20 magnetite crystals surrounded by a lipid bilayer, which help to orient magnetotactic bacteria in geomagnetic fields, which in turn helps them to find microaerophilic environments to thrive in.

Answer: **Magnetosome**

17. Closely related to psychometrics, mathematical psychology is based on mathematical modeling of motor, cognitive, and perceptual processes in order to establish quantifiable psychological laws. Here are some questions about this field, FTPE:

A. Before computers and imaging software, astronomers had to rely on human response speed when taking accurate measurements of time, which was studied by Frederick Bessel. Independently though, a more famous German physicist did an experiment on nerve conduction speed, although his theories on conservation of energy overshadowed this.

Answer: Hermann von **Helmholtz**

B. After World War II, developments in all fields necessitated greater understanding of human performance and limitations, out of which came this theory that can be used to model approximately rational decision processes, and selection of this kind is said to have independence from irrelevant alternatives.

Answer: **Luce’s Choice** Axiom (also accept: Luce’s Choice Theory, Rule, etc.)

C. This law is this proposed relationship between the magnitude and perceived intensity of a physical stimulus, modeled as the psychophysical function relating to the subjective magnitude of the sensation equals the proportionality constant in any type of unit, times magnitude of stimulus to the exponent of type of stimulus.

Answer: **Stevens’ Power** law

18. Ah, Iceland…apparently volcanoes, ice, sheep, Vikings and economic woes lead to a strong literary tradition. Identify some Icelandic authors, FTPE:

A. Writing mainly in Danish, this author translated the Grettis saga into Danish, published a poetry collection called *Digte*, and wrote such novels as *The Black Cliffs*, *The Good Shepherd*, and *Guest the One-Eyed*.

Answer: Gunnar **Gunnarsson**

B. Sniping the 1955 Nobel Prize in Literature from Gunnarsson was this other novelist influenced by the likes of Strindberg, Brecht, and Hemingway. His best-known works include *Independent People*, *World Light, Iceland’s Bell*, *The Atom Station*, and *The Fish Can Sing*.

Answer: Halldor **Laxness**

C. Perhaps less well-known is this Icelandic-Canadian poet and farmer influenced by Ralph Waldo Emerson. He wrote only in Icelandic, and along with numerous essays and letters published a poetry collection entitled *Sleepless Nights*, alluding to his insomnia. His homestead in Markerville, Alberta is a Provincial Historic Site.

Answer: Stephan G. **Stephansson** (also accept: Stefan Guthmundur Guthmundsson)

19. Yay elements! Let’s identify some Lanthanides from descriptions, FTPE:

A. This soft, silvery metallic rare earth element can be found in gadolinite, monazite, and xenotime. Its 169 isotope is used as a gamma ray source, has atomic mass of 70, and is named after a Swedish town.

Answer: **Ytterbium**

B. Another rare earth element, this one is used in making control rods for nuclear reactors, in data storage applications due to its high magnetic susceptibility, and as a component of Terfednol-D. Its name comes from the Greek for ‘hard to get’.

Answer: **Dysprosium**

C. With atomic number 59, this malleable and ductile metal is too reactive to be found in a native form, and when artificially prepared, it slowly develops a green oxide coating. This metal is often used to filter yellow light from sources of light, and its name is Greek for ‘green twin’.

Answer: **Praesodymium**

20. Trade restrictions, impressment, support of American natives against expansion, and national honour all pushed the US into declaring war on the British Empire in 1812. Answer some questions about that ill-fated endeavour, FTPE:

A. Without any Federalist support, the Madison-backed Congress issued a declaration of war before this new British Prime Minister could patch things up. He replaced the assassinated Spencer Percival, and couldn’t get his message out in time.

Answer: Robert Banks Jenkinson, 2nd Earl of **Liverpool** (also accept: Lord Liverpool)

B. 1812 proved to be a bad start for the Americans, when in July this general surrendered Fort Detroit and much of Michigan Territory. The numerically far inferior force led by General Isaac Brock and Tecumseh tricked Hull into believing that there were thousands of blood-thirsty savages encircling the fort, when it was really just a band of 150 natives with a backup of 400 troops.

Answer: General William **Hull**

C. In October, the Americans tried to invade Canada again, this time from the Niagara Peninsula. US regulars and New York militia under Stephen van Rensselaer fell to Brock at this battle, again despite having five times as many troops. The only positive thing for the Americans was the death of “The Hero of Upper Canada”.

Answer: Battle of **Queenston Heights**

21. Ptolemy identified 48 of them in his *Almagest*. Identify some constellations from features, FTPE:

A. A member of the zodiac, this large constellation is full of interesting things, such as the prototype of a certain type of variable stars, the Crab Nebula, the Pleiades open cluster, and the orange giant Aldabaran. The meteor shower of this constellation happens in November.

Answer: **Taurus** (prompt on: Bull)

B. This constellation of the Northern Hemisphere is home to only two bright stars, Gomeisa and Procyon, which besides being the 7th brightest star in the sky is a binary star that is only about 11 light years away from Earth.

Answer: **Canis Minor** (prompt on: Little Dog, Small Dog, Puppy, etc.)

C. First depicted in the astronomical atlas *Uranometria* in 1603, and created by the observations of Keyser and de Houtman, this small, dim constellation of the Southern Hemisphere is sometimes called ‘the saucepan’ in Australia, and the delta star of this constellation is sun-like; its name is Latin for ‘peacock’.

Answer: **Pavo**

22. Coming from the Greek for “universe study”, and concerned with the workings of, oddly enough, the universe, cosmology has long tickled the fancy of humans. Answer some questions about different cosmologies throughout the ages, FTPE:

A. According to this cosmological system, the universe is a living entity and is classified as cyclical or oscillating. 100 years in the life of the cosmic creator is equivalent to 311 trillion, 40 billion years, and the universe expanded from a single point known as the ‘bindu’.

Answer: **Brahmanda** (also accept: **Hindu**, but NOT Hindi)

B. This cosmology can be seen as an adaptation of Ibn al-Shatir’s geocentric Maragha model to that of the ancient Aristarchean heliocentric system as found in the *De revolutionibus orbium coelestrium*, and marks the departure in the West from the Ptolemaic model.

Answer: **Copernican** Universe

C. In 1983, Andrei Linde proposed this cosmology that combines Big Bang theory with cosmic inflation to account for the possibility of the creation of a multiverse in which bubbles nucleate in a spacetime foam.

Answer: **Eternal Inflation** model

23. In 2009, this man was ranked 5th top-earning dead celebrity by Forbes, and the success of his works have been claimed to have reinvigorated the fantasy genre in the 20th century. FTPE:

A. Who was this English philologist, poet, and writer born in Bloemfontein, Orange Free State, who invented a fantasy world called Arda, about which he wrote some famous works?

Answer: **J**ohn **R**onald **R**euel **Tolkien**

B. Tolkien’s son Christopher edited and published this work after his death, with help from Guy Gavriel Kay. This work is divided into five parts, and describes the creation and history of Middle-Earth.

Answer: **The Silmarillion**

C. In The Silmarillion, these were the immortal spirits that existed before Creation. They were created by the thought of the god Eru Iluvatar, and their name comes from the Quenya root meaning ‘to revere or treat with awe’.

Answer: **Ainur**