**James Blair Bowl Packet 3**

Buzzer Question: *“what is your favorite candy bar?”*

1. John Dickinson drafted the *Declaration of Rights and Grievances* in response to this law.Initially proposed by George Grenville this law had also been the focus of the *Virginia Resolves*. An effigy of Andrew Oliver was hanged in Boston in response to this legislation and much of the opposition to this law was organized by a namesake Congress. Its repeal also saw the passage of the Declaratory Acts which were likewise heavily protested by the Sons of Liberty. Patents, newspapers, mortgages, playing cards, and contracts all required the namesake seal under, For ten points, what Act, whose passage by British Parliament led to the “no taxation without representation” protests in the American colonies?

Answer: **Stamp** Act of 1765

1. Concepts such as “destination”, “retirement”, and “incorporation” were just a few of this man’s seven sacraments that he formulated as part of his “Religion of Humanity”. He disagreed with Henri de Saint-Simon regarding the division of history, which would eventually lead him to write one work discussing the progression of society through theological, metaphysical, and positive movements as part of Law of Three Stages. Later in his life he coined a term that he described as “living for others”. Aside from inventing the term “altruism” this man is known for a philosophy focused on purely empirical knowledge that he called “positivism”. For ten points name this French thinker who is often regarded as the “father of sociology”.

Answer: Auguste **Comte**

1. This was formulated in response to the EPR argument and a variant of it with two systems of observation is known as Wigner’s friend. Max Tegmark provided a new view of this concept by adding a device that measures the spin value of protons, and Hugh Everett proposed that two states of this existed simultaneously. Along with the many worlds interpretation, it was meant to criticize the Copenhagen theory because this concept cannot be observed. Its main components involve a radioactive source meter next to a flask of poison inside a box. For ten points, name this concept in which the eponymous animal displays superposition until the box is opened.

Answer: **Schrödinger’s cat** [prompt on “quantum mechanics” until Hugh Everett is mentioned]

1. Several grotesque Bronze busts of Don Quixote and various musicians were created by Otto Gutfreund, a leader of this art movement’s Prague branch. Sonia and Robert Delaunay were members of its Orphism branch , while other pieces of this art movement include the painting Houses at L’Estaque and another painting depicting a bull standing next to a mother cradling the body of her dead child. Split into “analytic” and “synthetic” branches, this art movement got its name from Louis Vauxcelles’ reaction to a painting depicting five nude women with mask-like faces. For ten points name this avant-garde movement exemplified by the works of George Braque and Pablo Picasso.

Answer: **cubism**

1. This author wrote a play about Desdemona’s relationship with her African nurse and her most recent novel revolves around Bride’s relationship with her mother, Sweetness. In another book, this author describes Floren’s attempts to save Rebekka from smallpox. This author of *God Help the Child* and *A Mercy* wrote about Milkman’s friendship with Guitar in *Song of Solomon*. At the end of one of this author’s novels, Pecola believes she has obtained the titular entity and she wrote about a spirit haunting Sethe at 124 Bluestone Road. For ten points, name this author of *The Bluest Eye* and *Beloved.*

Answer*:* Toni **Morrison**

1. One northern boundary of this nation was settled at the Simla Accord which was brokered by this country’s British Governor. Aside from being defined by the McMahon Line, this country was the sight of a namesake “emergency” led by the Bihar movement, who focused its protests on a leader who would later instigate Operation Blue Star. An earlier leader of this country had given the “Tryst with Destiny” speech during his inauguration and prior to that many citizens from this country participated in a journey to Dandi in what would become known as the Salt March. For ten points name this Asian nation, famously led by Jawharlal Nehru and Indira Gandhi.

Answer: The Republic of **India**

1. Some varieties of this substance can form pseudoknots and hairpins. The hybridization of its “sense” and “anti-sense” forms results in a phenomenon known as its namesake interference. The RISC protein incorporates the micro variety of this polymer. The self-replication of this molecule forms the foundation for the “world hypothesis” named after it claiming that it is the precursor to life on Earth. The transfer variety of this molecule is attached to amino acids that form peptide bonds during translation, and the messenger variety of this is created through transcription. For ten points, name this nucleic acid that is not DNA.

Answer: **r**ibo**n**ucleic **a**cid

1. In a “metaphysical drama” by this man, the titular character cries out “Old man! ‘tis not so difficult to die” right before perishing from his guilt over the death of Astarte. “With silence and tears” is this poet’s response to the eponymous event in his poem “When we two parted”, while in another work by this poet the titular conqueror “came down like the wolf on the fold.” Aside from “The Destruction of Sennacherib”, this poet described how “all that’s best of dark and bright met in her aspect and her eyes” in another work. Producing such collections as *Hebrew Melodies* and *Hours of Idleness*, this is, For ten points, what British poet, whose most notable works include *Manfred, Don Juan*, and “She Walks in Beauty”?

Answer: George **Gordon** or Lord **Byron**

1. This character was based on Conrad Veidt’s Gwynplaine and in his first appearance kills Henry Claridge. This character was thought to have been killed in the “Endgame” storyline though his current iteration claims he is three different people. This man tried to rob a lab disguised as the Red Hood in 1951 and Duela Dent first claimed to be this character’s daughter before revealing her real father. This character left Jason Todd to die in a warehouse explosion and shot Barbara Gordan in an attempt to drive her father insane. Referred to as the Ace of Knaves and the Clown Prince of Crime, for ten points, name this green-haired nemesis of Batman.

*Answer*: the **Joker**

1. One concept in this man’s philosophy is a fountain of energy and power that drives human beings to achieve. That concept, introduced in *The Wanderer and his Shadow* and *Daybreak*, allows humanity to overcome the lack of a greater power to provide meaning to life and is called the “will to power.” In another work, this man distinguished between two forms of literature, the Apollonian and Dionysian. Besides the *Birth of Tragedy*, he wrote about “why I am such a great writer,” *Ecce Homo* and this man wrote a “book for all” in *Thus Spoke Zarathustra*. For ten points, name this German philosopher who claimed that “God is dead” in his *The Gay Science*.

Answer: Friedrich **Nietzsche**

1. Their products can be used to generate Beatty sequences. A constant with this property frequently appears during analysis of random minimum spanning trees and is named for Roger Apery. Gamma of 2n+1 has been proven to generate an infinite amount of these numbers, and they can be produced from real numbers through a series of Dedekind cuts when the result belongs to neither empty set. A proof dealing with these numbers states that x squared equals two y squared, meaning that y must be odd and even simultaneously. That proof is used to justify that the square root of two is one of these numbers. For ten points, name these numbers, often defined as non-terminating non-repeating decimal numbers, examples of which include pi, e, and the golden ratio.

Answer: **irrational** numbers

1. The demon Abezithibou was said to have been trapped as a result of this work’s most notable miracle. The Pekudei consists of the final portions of this work, while the Shemot refers to its first five chapters. One person in this book is saved from heavenly destruction when he is circumcised by Zipporah. The Sinaitic Covenant is a primary theme of this work, which is temporarily broken when Aaron constructs a certain idol. Two magicians transform some staffs into snakes, while one instance of Theophany involves an incendiary object that states “I am what I am”. For ten points, name this book of the Hebrew Bible that recounts the building of the Tabernacle, the 10 plagues, and the namesake flight from Egypt.

Answer: The Book of **Exodus** (prompt on Bible, or Old Testament)

1. One character in this book kisses her cousin while playing hide-and-seek; that cousin snubs her at a dance and later marries Julie. Platon becomes a role model for another character, whom Petya dies trying to save. Maria inherits Bald Hills when her brother dies and one of the protagonists of this novel is berated for failing to kill herself because she became infatuated with Anatole Kuragin. Its protagonist duels Dolokhov, joins the Freemasons, and believes that he is destined to kill Napoleon Bonaparte. For ten points, name this novel that ends with Pierre Bezukov marrying Natasha, a work by Leo Tolstoy.

Answer*:* ***War and Peace***

1. Hugh Dempsey was one of the few men convicted after this event and attempts to end this event failed when Sheriff McCleary’s men were driven off. Philander Knox agreed to drop charges after this event, which ended when Governor Robert Pattison sent in the state militia. Alexander Berkman tried to assassinate Henry Clay Frick during this event, which culminated in a standoff between the Pinkerton agents and members of the Amalgamated Association of Iron and Steel Workers. For ten points name this 1892 strike of Carnegie Steel employees in Pennsylvania.

Answer: **Homestead Strike**

1. A large igneous monolith called Zuma Rock can be found a few miles north of this nation’s capital and this country’s highest point is Chappal Wadi. This nations Mambilla highlands along its border with its eastern neighbor hosts the most diverse populations of butterflies in the world. The Benue river meets with this country’s principle waterway at Lokoja. Lake Chad lies in its Northeastern border and some of its indigenous peoples include the Yoruba and the Igbo. Large cities in this country include Kano, Maiduguri, and Ibadan, and its capital is a purpose-built city called Abuja. For ten points, identify this west African country with its largest city at Lagos.

Answer: **Nigeria**

1. DMSO acts as a reagent in a reaction of this type named for Swern. The splitting of alkenes via ozonolysis is a variant of this type of reaction and a periodinane is used in a reaction of this type developed by Dess and Martin. In primary alcohols, PCC is used to generate aldehydes and the Jones Reagent is used to create carboxylic acids in reactions of this type. The Ostwald process uses this type of reaction to produce nitric acid from ammonia, while a “beta” form of this reaction is responsible for the breakdown of fatty acids in the mitochondria. In electrochemistry, a voltaic cell’s anode is the sight of , For ten points, what chemical reaction, often characterized by the loss of electrons, the opposite of reduction reactions?

Answer: **oxidation**

1. This writer discussed his love for marathons in his book *What I Talk About When I Talk About Running.* In one of this man’s novels, a character tries to search for his cat named after his brother-in-law, and in another novel the main character learns to read dreams from the skulls of unicorns. Besides *Hard-Boiled Wonderland and the End of the World* and *The Wind-Up Bird Chronicle,* this man’s most recent novel has a title that references *1984* and in his most famous novel the titular character has an alter ego named Crow and is named after a German author. For ten points, name this Japanese author of *1Q84* and *Kafka on the Shore.*

Answer: Haruki **Murakami**

1. Georgi Dimitrov described Fascism as the epitome of reactionary elements of this system. Veblen challenged this system’s efficiency with his most well known theory. The United States and other English-speaking nations use an “Anglo-Saxon” form of this system, and *The Road to Serfdom* was a defense of this system which stated interference in it inevitably led to tyranny. Vladimir Lenin wrote a book stating that Imperialism was the highest form of this system.  Many of its principles were outlined in Adam Smith’s *The Wealth of Nations*. For ten points, name this economic system based around private ownership of the means of production.   
   Answer: **capitalism**
2. A Czech example of this form by Julius Fucik [Foo-chick] called “Entry of the Gladiators” is now commonly equated with circus music. An Austrian example of this composition type was written by Johann Strauss Senior to commemorate the victory of Field Marshal Joseph Radetzky and Chopin wrote a notable “funeral” one. This musical form usually has a trio showcasing clarinets, and perhaps one of the most famous examples is entitled “Stars and Stripes Forever”. For ten points, name this composition type, famous composers of which include Kenneth Alford and John Philip Sousa.  
   Answer: **march**
3. In this man’s first battle on the Iberian Peninsula, he defeated a force of Volcae near the Rhone river. That victory led to Gnaeus Cornelius Calvus being placed in command of Rome’s Iberian forces. In one battle, this man’s opponent, Tiberius Sempronius Longus, ordered his troops to march through a freezing river, leading to their deaths, while in another, he defeated Gaius Flaminius in the largest ambush in history. Besides winning battles at the Trebbia River and Lake Trasimene, this man made use of double-envelopment to beat Paullus and Varro at Cannae, before his own defeat by Scipio Africanus at Zama. For ten points, name this Carthaginian general who crossed the Alps into Italy during the Second Punic War.

Answer: **Hannibal** Barca

1. This man wrote a piece known as his *Messa di Gloria* despite its containing more than a Kyrie and Gloria. This composer repeatedly revised the opera *Edgar* before giving up on it and worked with five librettists on *Manon Lescaut*. Lauretta appeals to her father with the aria “O mio babbino caro” in the final part of this man’s *Il trittico*, *Gianni Schicchi*. Floria sings “Vissi d’arte” before killing Baron Scarpia and in another work, Rodolfo presents Mimi with a pink bonnet before she dies. For ten points name this composer of *Tosca* and *La bohème*.

Answer: Giacomo **Puccini**

1. Noam Chomsky has said that strikes ordered by this individual constitute the largest terrorist campaign in modern history. A department under this individual has made arguments justifying indefinite detainment without trial, whilst criticizing a troop surge ordered by his predecessor. During this individual’s administration, he used the provisions of the Espionage Act the most of all presidents, and near the end of his term, he enabled the National Security Agency to share data with more agencies.  For ten points, name this President from 2009 to 2017, who ordered the 2011 bombings of Libya and extended the Patriot Act.   
   Answer: Barack **Obama**

**Bonuses:**

1. Voodoo mixed mysticism and Roman Catholicism. For ten points each:
2. Papa Legba and Baron Samedi are examples of these spirits, and are usually associated with various saints.

Answer*:* **loa**

1. This entity in voodoo is dualistic, with one half, the gros bon ange, managing biological functions and the ti bon ange commanding personality and consciousness.

Answer: **soul** [accept **spirit**]

1. The supreme creator of Haitian voodoo is this figure, who acts in world affairs through the loas. His name derives from the French for ‘good’ and ‘god’.

Answer: **Bondye** [accept ‘bon-dieu’]

1. Answer some questions about the works of Jack London for ten points each-
2. The protagonist dies after being unable to do the title action at the end of what short story?

Answer*:* “**To Build A Fire”**

1. This Jack London titular character fought and killed Lip-lip, but settled down with Weedon Scott on his estate.

Answer*:* **White Fang**

1. This other work by London follows a manuscript by Avis Everhard that chronicles the rise and fall of the Oligarchy that ruled the United States.

Answer: ***The Iron Heel***

1. The Rebellion of the Seven States sought to prevent centralization of power in this time period. For ten points each:

a. Preceded by the Qin dynasty, name this dynasty that was split into the Three Kingdoms, whose capitals included Chang’an and Luoyang.

Answer: **Han** dynasty

b. Emperors derived power from this source, which declared that emperors must rule well or they would be overthrown.

Answer*:* **Mandate of Heaven** (accept equivalents)

c. This rebellion during Emperor Ling’s rule was aggravated by famine, but managed to strengthen local governing powers. Its name comes from the clothing the rebels wore.

Answer: **Yellow Turban** Rebellion or **Yellow Scarves** Rebellion

1. Children under the age of 10 are less likely to develop this disorder when experiencing severe ordeals. For ten points each:

a. Name this disorder whose symptoms include flashbacks and hypervigilance, first studied in veterans of the Vietnam War.

Answer: **post-traumatic stress disorder** [accept **PTSD**]

b. Sufferers of PTSD are believed to be unable to extinguish invasive memories because of this part of the brain, which is responsible for estimating threats and forming memories related to fear.

Answer: **amygdala**

c. These medications have generally benevolent effects on treating PTSD by increasing the level of a certain neurotransmitters in the brain, easing the severity of depression and anxiety.

Answer: **SSRI**s or selective serotonin re-uptake inhibitors

1. One variety of this process is subdivided into deflation, the removal of particles, and abrasion, the collision of particles. Those are both classified as the “Aeolian” form of this process. For ten points each-

a. Name this geomorphological process in which water, wind, and other natural forces carrying away rock and soil resulting in physical changes.

Answer: **erosion**

b. Thermal erosion is the process by which moving water, often in subterranean aquifers, weakens and destroys this material. The destruction of this material in Siberia has led to rapid changes in the surrounding Taiga.

Answer: **permafrost**

c. Corrosion is a special form of erosion in which substances dissolve materials over time to cause major geological changes. This is especially prevalent in this type of topography, which is often characterized by high levels of subterranean limestone. This type of topography often includes numerous sinkholes and cave systems.

Answer: **Karst** Topography

6. For ten points each, name these styles of ballroom dance.

a. The East coast style of this dance typically starts on a rock step, but starts on a triple step in its Ballroom variant. Music with this name has its ‘King’ in Benny Goodman, and another famous musician in that style is Glenn Miller.

Answer: **swing**

b. This style of dance originated in Argentina and Uruguay and is often accompanied by accordions and bandoneons. Carlos Gardel composed several of them and they were made popular in the US by Rudolph Valentino.

Answer: **tango**

c.This style of dance originated in Cuba but was heavily modified as it made its way to New York, where it was combined with big band music. A famous example of music to be played to this style is *El Manisero*, and its Americanized version is typically spelled with an ‘h.’

Answer: **rhumba**

7. Many characters in Shakespeare prophesized their own death. Name each character by the quote for ten points each:

a. “For in that sleep of death what dreams may come, when we have shuffled off this mortal coil, must give us pause.”

Answer: **Hamlet**

b. “Cowards die many times before their deaths; the valiant never taste of death but once.”

Answer: **Julius** **Caesar** (accept either or both)

c.Out, out, brief candle! Life’s but a walking shadow, a poor player that struts and frets his hour upon the stage and is heard no more.”

Answer: **Macbeth**

8. For ten points each, name these Chinese cities.

a.This city is the site of the Forbidden Palace and Tiananmen Square.

Answer: **Beijing**

b.This city with administrative independence was handed over to the People’s Republic by the British in 1997.

Answer: **Hong Kong**

c.This other of the Four Ancient Capitals of China is situated in the center of the Yangtze River region and it is the world’s largest aggregate city. This was later upset during the Japanese invasion in the early 20th century.

Answer: **Nanjing** or **Nanking**

9. For ten points each, name these questions about the judicial process.

1. This concept states that the court has the right to hear a case in a certain given area of authority.  
   Answer: **jurisdiction**
2. This writ gives the accused the right to call into question their imprisonment, and it was suspended by Abraham Lincoln during the Civil War  
   Answer: ***Habeas corpus***
3. This peremptory writ is a direct order toward a court, business, or public administrator to perform or refrain from a certain action. Some of these writs started the controversy that would eventually be resolved by the court case Marbury v. Madison.   
   Answer: **mandamus**

10. Ivy Mike was the first to produce this reaction, though it was not full-scale. For ten points each:

a. What reaction merges two atomic nuclei into one nucleus?

Answer: nuclear **fusion** [do not accept fission]

b. The mass of the product of nuclear fusion is smaller because of the difference of this entity between the nuclei. This is the energy required to disassemble an atom.

Answer: **binding** energy

c.Interstellar travel has been proposed using nuclear fusion, but the collision of matter and this entity produces a larger magnitude of energy per unit of mass.

Answer: **antimatter**

11. For ten points each, name these vice presidents.

a. This vice president drew controversy after accidentally shooting a hunting partner.

Answer: Dick **Cheney**

1. This vice president ran for president in 1984, selecting Geraldine Ferraro as his running mate.

Answer: Walter **Mondale**

1. In 1948, this noted pro-Soviet vice president ran for president on the Progressive Party ticket. He previously served as Secretary of Agriculture.

Answer: Henry **Wallace**

12. Kurt Schwitters made ones of wood in his Merz Pictures. For ten points each:

a. This type of pop art is made up of different forms and materials, and comes from the French verb ‘to glue’.

Answer: **collage**

b. Jasper Johns made many of his collages with these objects by putting encaustic paint on them. Alberto Schommer photographed Andy Warhol with one of these objects draped around him.

Answer: American **flag**

c.This artist’s most well-known collage is *Just what is it that makes today’s homes so different, so appealing?* one of the representative pieces of the Independent Group, a proto-pop art group in the UK.

Answer: Richard **Hamilton**

13. Scholars have identified parallels between a non-anthropomorphized version of this concept and one seen in the second verse of the Hebrew Torah. For ten points each-

a. This entity, whose name is Greek for “chasm”, was thought by many Greco-Roman  authors to be the first entity in existence. The author Hesiod follows its creation by that of Gaia, Tartarus, and Eros.

Answer**:** **chaos**

b. Many ancient civilizations include a Chaoskampf, or an chaotic entity of this type that is defeated by a storm god. Examples of which include Ba’al vs Lotan,  Thor vs. Jörmungandr , and Zeus vs Typhon.

Answer**:** **Serpent** [or **Snake**]

c. Due to the alchemical idea that chaos was a congestion of all elements, the Dutch chemist  J. B. Van Helmont named this form of matter after chaos. The rightmost families on the periodic table are almost always in this form.

Answer**: gas**

14. Water is the only substance with a negative slope on this chart. For ten points each

a. This graph plots temperature versus pressure and demonstrates the changes that occur as a substance goes from gas to solid to liquid.

Answer: **phase diagram**

b. At this point the densities of the substance as a liquid and gas become equal, ending the phase boundary.

Answer: **critical** point

c. This equation is used to calculate the slope of diagrams plotting pressure and temperature, and can calculate the vapor pressure of a substance with its heat of vaporization.

Answer*:* **Clausius-Clapeyron** equation

15. This film was ripped off by Sergio Leone in *A Fistful of Dollars.* For 10 points each:

a. Name this movie about a ronin played by Toshiro Mifune that gets in the middle of a feud between crime lords.

Answer: ***Yojimbo***

b. This Japanese director directed Yojimbo as well as its sequel Sanjuro.

Answer: Akira **Kurosawa**

c.In this most famous Kurosawa film, a group of men protect a village from an army of bandits.

Answer: ***Seven Samurai***

1. 16. This man wrote of “A jug of wine, a loaf of bread-and thou, beside me singing in the wilderness.” For ten points each:
2. Name this poet who wrote hundreds of verses in his eponymous *Rubaiyat*.

Answer: Omar **Khayyam**

1. This man wrote a collection of lyric poems in his *Works of Shams of Tabriz*, but is better known for his *Spiritual Couplets*.

Answer: Jalal ad-Din Muhammad **Rumi** or Jalal ad-Din Muhammad **Balkhi** or **Mawlana**

1. Both Omar Khayyam and Rumi wrote most of their poems in this language, whose other authors include Hafiz Shirazi and Nezami Ganjavi.

Answer: **Persian**

17. This city was once named Waterloo due to its location along the Colorado River. For ten points each:

a. Mirabeau Lamar changed the location of this state capital before renaming it after the “Father of Texas”.

*Answer:* **Austin**

b. Along with his father, Stephen F. Austin held this profession in which they were given the right to settle land in exchange for taking care of the settlers.

Answer*:***empresario**

c. Stephen F. Austin led the Texan forces at the Siege of Bexar, the only victory in the war for Texas Independence other than this battle, which lasted 18 minutes and saw the capture of Santa Anna.

Answer*:* Battle of **San Jacinto** [“san-juh-sin-toe"]

18. This phenomenon is sometimes known as the Sewall Wright effect. For ten points-

a. Name this biological occurrence, tracked by the Wright-Fisher and Moran models, which is often characterized as the shift in allelic frequencies due to random environmental occurrences.

Answer: **genetic drift**

b. The presence of genetic drift in a population means that it violates this evolutionary principle. This equation allows for the tracking of homozygous and heterozygous members of a population so long as the organisms randomly mate, reproduce sexually, and do not undergo mutations.

Answer: **Hardy-Weinberg** principle

c. This other effect is an example of genetic drift and is primarily characterized by a decrease in genetic variation when a small, relatively non-diverse, population establishes itself in a new environment.

Answer: **Founder** effect

19. For ten points each, answer these questions about an African country:

a. This country was embroiled internal conflict when the government responded to attacks by the SLM and the Justice and Equality Movement with ethnic cleansing of non-Arabs. Much of this conflict stems from instability in its capital of Khartuoum.   
 Answer: **Sudan**

1. The conflict mainly took place in this region of Western Sudan, and a namesake peace agreement was written in 2006.  
   Answer: **Darfur**
2. This Sudanese state, the sight of ongoing fighting between Sudanese forces, shares its name with a news network based in Qatar.  
   Answer: **Al Jazirah**

20. Bertha Flowers mentors the protagonist after she is raped by Mr. Freeman. For ten points each:

a. Name this work partially set in Stamps, Arkansas and ends with the protagonist giving birth to her son at age 17.

Answer: ***I Know Why The Caged Bird Sings***

b. This author wrote *I Know Why the Caged Bird Sings*, as well as the poem “On the Pulse of Morning.”

Answer: Maya **Angelou**

c. This poet used the line “I know why the caged bird sings” in his poem “Sympathy”, using the caged bird as a symbol for a slave.

Answer: Paul Laurence **Dunbar**

21. Figure skaters and divers pull their arms in to reduce this quantity, making them spin faster. For ten points each-

a. Name this quantity describing the force needed to resist angular acceleration, the rotational analogue of mass.

Answer: **moment of inertia** (also accept **rotational inertia** prompt on “inertia”)

b. This rotational analogue of force is equal to moment of inertia times angular acceleration. This is also equal to the cross product of force times distance.

Answer: **torque**

c. Torque is sometimes shown on these kinds of diagrams, which depicts every force acting on an object using arrows.

Answer: **free-body** diagram

22. This character tells his students a riddle about a fox burying his grandmother beneath a hollybush in the second novel he appears in. For ten points each:

a. This character hears a story about a moocow and swears to change his ways after hearing Father Arnall’s sermon about hell in *A Portrait of the Artist as a Young Man*.

Answer: Stephen **Dedalus**

b. Stephen is roommates with Buck Mulligan in this novel, where he encounters Leopold Bloom in Dublin.

Answer: ***Ulysses***

c. This Irish author wrote *Ulysses* and *A Portrait of the Artist as a Young Man*.

Answer: James **Joyce**