

MKULTRA II: A Fucking Didactic Educational .docx File

The Milton Keynes Ultimate Liaison of Trash and Academia

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Round 8 - Packet by Editors

Tossups

1. A D major funeral anthem by this composer quotes a Jacobus Gallus' *Ecce quomodo moritus justus*. Oboe and strings play an E minor *Sinfony* in the style of a French Overture that opens another work by this composer which later has a tenor Air which opens *Thou shalt break them with a rod of iron*. Another work by this composer contains a D minor (*) Bourrée and a 12/8 Largo alla Siciliana entitled *La Paix*. The librettist Charles Jennens included the line "He shall reign for ever and ever" in the *Hallelujah* chorus of one work by this composer, whose *Zadok the Priest* has been used at the coronation of every monarch since George II. For 10 points, name this composer of the *Music for the Royal Fireworks* and *Messiah*.

ANSWER: George Frederick Handel

2. The Home Secretary of this ministry, Sir James Graham, failed to pass a Factory Education Bill but did enact a Factories Act the following year. Henry Goulburn became Chancellor for a second time in this ministry, which enacted the Mines and Collieries Act and the Railway Regulation Act. Its Foreign Secretary signed the (*) Webster-Ashburton Treaty, Treaty of Nanking and the Oregon Treaty. This ministry's first budget reintroduced income tax at the rate of 7 old pence in the pound. For 10 points, name this ministry that ended when its prime minister resigned after the Irish Coercion Bill was defeated in the Commons the same night his Bill of Repeal passed in the Lords.

ANSWER: Sir Robert Peel's 1841-46 ministry [accept either underlined part, do not accept the (five-month) 1834-5 ministry]

3. Point guard Baron Davis was instrumental in this team's run to the playoffs in 2007, which was associated with the slogan "We believe". Tim Hardaway, Mitch Richmond and Chris Mullin comprised "Run-TMC", a high-scoring trio that was an integral part of this team's "Nellie Ball" offense. At a practice session in 1997, a request to "put a little mustard" on a pass led to this team's head coach P. J. Carlesimo being choked by Latrell Sprewell. This team is currently noted for using a strategy based on (*) three-pointers, usually scored by Klay Thompson and 2015 MVP Stephen Curry. 2016 saw LeBron James and the Cleveland Cavaliers exact revenge on, for 10 points, which Oakland, California, based professional basketball team who won the 2015 NBA Championships?

ANSWER: Golden State Warriors (prompt on "Warriors", accept Golden State)

4. With Gary Gibbons, this scientist names a hyper-Kähler manifold with an extra U(1) symmetry as well as a statement that every solution of the Einstein field equations with a causal horizon has an associated temperature. The universe has no initial boundary conditions in space or time in a model named for this scientist and James Hartle. One of this scientist's theories predicts the (*) Planck mass to be the lower limit for the mass of certain astronomical objects, which would otherwise have impossibly short lifetimes. Jacob Bekenstein sometimes co-names a form of black-body radiation proposed by this scientist that is predicted to be generated by quantum effects near the event horizon of a black hole. For 10 points, name this British physicist who suffers from motor neurone disease.

ANSWER: Stephen (William) Hawking

5. NOTE: GENRE AND TYPE OF WORK REQUIRED. At the end of one of these works in this genre, the title character is shot on live television, and his watching mother knows she saw something "real sad" but cannot remember what. In another of these works in this genre Eckels pays ten thousand dollars to go on a hunting safari, but fails to obey the rules. In a third work of this type, a character called Speedy runs in a circle around a (*) selenium pool, because they cannot decide whether to obey an order or to preserve their

own existence. In another of these types of works an artefact found on the moon is thought to be a beacon left by an alien race. Ray Bradbury's *The Sound of Thunder* and Kurt Vonnegut's *Harrison Bergeron* are examples of, for 10 points what type of work typified by Isaac Asimov's *Runaround* and Arthur C. Clarke's *The Sentinel*.
ANSWER: **Science-fiction short stories** [prompt on partial answers, accept dystopian short stories before Eckels]

6. Robert Hughes wrote that this artist's *Dead Turkey* "promotes as much sympathy as any other corpse in art". Two rich, decrepit women look into a hand mirror while Father Time looms behind them in this artist's *Time and Old Women*, and he depicted men whipping their backs and wearing capirotes [kah-pee-roh-tayss] in *A Procession of Flagellants*. Two companion portraits of a noblewoman by this artist both dress her in a red sash; in one in (*) black she points to this artist's name on the floor. That subject, the Duchess of Alba, is sometimes rumoured to be the model this artist depicted in identical positions both clothed and nude. A man raises his arms to a firing squad in a work by, for 10 points, what Spanish artist of *The Nude Maja* [mah-hah] and *The Third of May, 1808*.
ANSWER: Francisco (José de) **Goya** (y Lucientes)

7. This architect designed a courtyard house in his only work in South America, the Curutchet [cuh-rut-SHAY] House in La Plata. The façade of that building incorporates a *brise soleil*, which is a feature this architect also rendered in an oblique grid of concrete in his Carpenter Center for the Visual Arts at Harvard. This architect is responsible for many "open hand" sculptures and developed a scale of proportions called (*) Modulor. The replacement of load-bearing walls with free columns was advocated by this architect who promoted the concept of the "functional city" and designed the planned city of Chandigarh. "Five points of architecture" were proposed by, for 10 points, what architect who designed the Villa Savoye [sah-VWAH] and suggested the house as a "machine for living in"?
ANSWER: Le **Corbusier** (or Charles-Édouard **Jeanneret**(-Gris))

8. This play is largely based on Cinthio's *Gli Hecatommithi*. One character in this play who wounds a governor in a drunken brawl and is in love with a prostitute, is described as "A fellow almost damned in a fair wife". A character in this play whose speech is described as "A bombast circumstance, / Horribly stuffed with epithets of wars." stops a streetfight with the line "Keep up your bright swords for the dew will rust them." That character in this play tells his wife "Perdition catch my (*) soul. But I do love thee! And when I love thee not, Chaos is come again." After she has been murdered he compares himself to one who "Like the base Judean, threw a pearl away / Richer than all his tribe." An ancient ensign in this play provides the "ocular proof" necessary to convince a General that he is being cuckolded by Michael Cassio. Iago engineers the death of Desdemona in for 10 points which Shakespeare tragedy about the Moor of Venice.
ANSWER: **Othello**

9. A 1981 paper by Kidwell et al suggested that hybrid dysgenesis caused by P factors may be a cause of this process. Salsify plants in the genus *Tragopogon* are studied as model organisms for the allopolyploid form of this process. Studies of Haplochromine cichlids suggest that sexual selection may drive this process; an example of this process's (*) prezygotic form. One model for this process may be explained by resource competition leading to disruptive selection, and assortative mating. The allopatric form of this process results from geographic isolation creating reproductive barriers between populations. For 10 points, identify this process, in which new species arise.
ANSWER: **speciation** [accept descriptive alternatives]

10. One film produced by this group features protagonists named 'Hero Robot No. 1' and 'Hero Robot No. 2', while another features Stella, Arpegius, Baryl, and Octave, who perform as the Crescendolls. This group were originally called Darlin', until Laurent Brancowitz left to form Phoenix and they adopted a new name from a negative *Melody Maker* review. In the video accompanying one song by this duo, four dancers wearing tracksuits and (*) small prosthetic heads dance to the bass guitar, while in another, a skinless robot chants the lyrics. This group's best-selling work begins with the words "Like the legend of the phoenix/All

ends with beginnings". For 10 points, name these creators of *Electroma*, *Interstella 5555* (pron. 'Four Five'), 'Technologic', and 'Around the World', a French electronic music duo who sold four million singles in the US alone with the release of 'Get Lucky'.

ANSWER: Daft Punk

11. In Ziegler–Natta polymerisation, products of lower-than-expected molecular weight are formed by hydride elimination at a position named for this letter. In the analysis of one process named for this letter, reduced intensity is plotted against kinetic energy in the Kurie plot. Silicon atoms stabilise carbocations in this position due to hyperconjugation. Nucleophilic attack occurs at this position relative to a carbonyl in the (*) Michael addition. In statistical mechanics, the inverse product of the Boltzmann constant and temperature is the thermodynamic version of this letter. A class of antibiotics including penicillin contain this kind of lactam group. Carbon-14 undergoes a decay process named for, for 10 points, what letter that denotes the release of an electron?

ANSWER: beta [accept beta-hydride elimination until "this letter" is read]

12. Alex Ferguson's favourite biography of this man is Robert Dallek's "An Unfinished Life". This man's death is the subject of Gerald Posner's "Case Closed" and Vincent Bugliosi's "Reclaiming History". This man's college thesis on the British government's failure to prevent World War II was published as "Why England Slept". This Pulitzer Prize winner's (*) "Profiles in Courage" was ghostwritten by his speechwriter Ted Sorenson, and his special advisor Arthur Schlesinger wrote "A Thousand Days" about this Roman Catholic's time in the White House. That presidency included events like the erection of the Berlin Wall, the Bay of Pigs and the Cuban Missile Crisis. For 10 points, name this U.S. President who was assassinated in Dallas by Lee Harvey Oswald.

ANSWER: John Fitzgerald "Jack" Kennedy or JFK [prompt on just 'Kennedy']

13. This thinker concluded one work with the words "The true problem is not to study how human life submits to rules; the real problem is how the rules become adapted to life". In another he argued that power, and not sexual jealousy, explains the Oedipus complex, and in a third he studied a society's methods for cultivating yams and (*) taros. This author of *Crime and Custom in Savage Society* and *Coral Gardens and Their Magic* wrote about a system in which red shell necklaces were traded in a clockwise direction and white shell armbands in an anticlockwise direction: the Kula ring system. For 10 points, name this founder of functionalism, a Polish-born British anthropologist who studied the Trobriand Islanders in *Argonauts of the Western Pacific*.

ANSWER: Bronislaw (Kasper) Malinowski

14. One character in this novel has albugo in his left eye. Another character in this novel nicknamed Ratslayer does not get hot or thirsty despite pacing in the sun. In this novel two characters have no choice but to drink warm apricot soda, which makes them hiccup. One character in this novel attempts to avoid losing a chess game by knocking a knight under the bed. That character in this novel later mends his (*) Primus stove and survives being shot in the head. Magic cream in this novel is used to turn one man into a pig, and by a woman to become young, beautiful and able to fly. The poet 'Homeless' is declared insane after he meets the seven foot tall Professor Woland who predicts the decapitation of Berlioz by a streetcar. The talking cat Behemoth appears in for 10 points in which novel about the Devil visiting Moscow by Mikhail Bulgakov?

ANSWER: The Master and Margarita [accept Master i Margarita]

15. One of this man's friends dies by falling off a roof while drunk, and this man does not notice his absence until meeting him in the underworld. This man was killed with a spear tipped with stingray poison, and his two sons by different women married each other's mothers. Places visited by this man include (*) Aeaëa, Thrinacia and Ogygia. Gifts received by this man include a magic herb and a bag of wind, and tricks employed by him include investigating his own household disguised as a beggar and claiming to be called 'Nobody' in preparation for escaping capture and blinding his captor, Polyphemus. For 10 points, name this figure of Greek myth, best known for the ten dramatic years he took travelling home to Ithaca.

ANSWER: Odysseus [accept Ulysses]

16. This city is connected to Mount Mindolluin by the Rath Dinen, and its Old Guesthouse lies on the Rath Celerdain. After the fall of the Rammas Echor, this city's main gate was destroyed in three strikes by a ram named after Morgoth's hammer, Grond. This city's feasting hall, Merethrond, is located next to its tallest building, the Tower of Ecthelion, which along with the towers of (*) Orthanc and Barad-Dur, holds one of the last palantíri. This city was known as Minas Anor before the fall of its Eastern counterpart, Minas Ithil. 2000 Rohirrim were killed relieving a siege of this city on the Pelennor Fields in which the Witch-King of Angmar died. For 10 points, name the capital of Gondor during the War of the Ring.

ANSWER: Minas Tirith (accept Minas Anor before mention, accept Mundburg (because Rohirrim are people too), prompt on the 'White City', 'Tower of the Guard' or 'City of the Kings')

17. Followers of this man believe him to have lived 258 years before Alexander the Great, although historic estimates place him around a millennium earlier. One of this man's earliest followers was the ruler Vishtaspa, who converted, along with his family, in return for this man curing a paralysed horse. Some sources claim that this man lived at 'Ragha', although this may have just meant 'hillside', and that he was born by the Ditya River. A central tenet of this man's teachings is man's freedom to choose between (*) *asha* and *druj*. This man's native language is nowadays named for the book of his teachings, including sections written by this man such as the Yasna Haptanghaiti and the Gathas. For 10 points, name this man, founder of an eponymous religion, whose teachings are recorded in the Avesta and whose followers worship in fire temples.

ANSWER: Zoroaster [accept Zarathustra]

18. In 2015, this city hosted the most recent Universal Exposition; that Expo took as its theme "Feeding the Planet, Energy for Life!" This city is crossed by a network of medieval navigation canals called the *navigli* [nah-VEE-lyee]. After he saw Napoleon return from a victory in the nearby city of Lodi, Stendhal honoured this city by claiming to be from it in a self-penned epitaph. This city's suburb of Lambrate [lam-BRAH-tay] is referenced in the name of the (*) Lambretta scooter. A 1950s "economic miracle" in this city included the construction of the Pirelli Tower and the northern limit of the Autostrada del Sole [SOH-lay]. The vaulted shopping arcade Galleria Vittorio Emanuele II ["seh-kohn-doh"] is located in this home city of the fashion companies Versace and Armani. For 10 points, name this capital of Lombardy and largest city in northern Italy.

ANSWER: Milan (or Milano)

19. This country names a viceroyalty of six audiencias that was split by the Bourbon Reforms into New Granada and Rio de la Plata. Its capital was founded as City of the Kings in 1535. After independence, this country experienced a three-year confederation with its eastern neighbour, a period of prosperity known as the Guano era and then the loss of Tarapacá to its southern neighbour in the (*) 1883 Treaty of Ancon. For 10 points, name this country where Pedro Kuczynski [kuh-CHIN-ski] beat Ollanta Humala and Keiko Fujimori in a 2016 presidential election, a South American republic which achieved independence in the 1822 battle of Ayacucho and was formerly home to the Inca capital Cusco.

ANSWER: Peru

20. Robert Silverberg proposed using thiotimoline cages to transfer Plutonium-186 to trigger this event in *The Asenion Solution*. Tear gas laced with 'quantum juice' causes people such as Static and the Blood Syndicate to gain superpowers in a separate event of this name. The Nibblonians are 17 years old during this event, which creates the (*) Brain Spawn. According to Peter Griffin, this event is caused by God farting through a lit lighter. Despite Fry, Bender and Professor Farnsworth seeing this event twice, they miss seeing the comedian Max Quordlepleen perform at its namesake burger bar. For 10 points, name this event from 14 billion years ago in which a hot dense state started to expand, creating our universe.

ANSWER: Big Bang [prompt on descriptive answers such as 'start of the universe']

Bonuses

1. In 2010 forty fibreglass sculptures of these creatures were displayed in Hull city centre to mark the 25th anniversary of the death of Philip Larkin. For 10 points each:

[10] Larkin described 'work' as this kind of creature, squatting on his life.

ANSWER: A Toad

[10] This other poet translated the Scots poem *The Toad and the Mouse*. He also wrote about frogspawn in *Death of a Naturalist*.

ANSWER: Seamus Justin Heaney

[10] This poem by Ted Hughes is not about a toad, but begins "I imagine this midnight moment's forest" and ends "The page is printed."

ANSWER: The Thought Fox

2. In honour of the dear departed Prince Rogers Nelson, here are some bonuses on black mononymous singers of the 80's who weren't him. For 10 points each:

[10] This man had three 80's albums as part of The Deee, as well as a string of solo albums, but is probably best known for writing and producing such hits as Whitney Houston's 'I'm Your Baby Tonight' and Boyz II Men's 'I'll Make Love To You'

ANSWER: Babyface [accept Kenneth Brian Edmonds]

[10] This British-Nigerian singer and her eponymous band found 80's success with hits like 'Your Love is King' and 'Smooth Operator' while living in a squat in Tottenham.

ANSWER: Sade [accept Helen Folasade Adu]

[10] Another British singer of Nigerian descent was this man, who toured as part of funk band Push in the late 80's, but would find success in the 90's after partnering with similarly-mononymous producer Adamski.

ANSWER: Seal [accept Henry Olusegun Adeola Samuel]

3. This man fought 25 duels in his first year as a student at Gottingen, and often announced his arrival by firing his pistol at the ceiling. For 10 points each:

[10] Name this Iron Chancellor who unified Germany.

ANSWER: Otto Eduard Leopold, Prince of Bismarck, Duke of Lauenburg (Accept Otto von Bismarck)

[10] This policy by Bismarck attempted to reduce the power of the Catholic Church.

ANSWER: Kulturkampf

[10] Bismarck was succeeded as chancellor by this man, who gained land in German Southwest Africa in the Heligoland-Zanzibar Treaty.

ANSWER: Leo von Caprivi

4. He developed the artificial language Novial. For 10 points each:

[10] Name this Danish linguist and author of *How To Teach A Foreign Language* and *Language: Its Nature, Development, and Origin*.

ANSWER: (Jens) Otto (Harry) Jespersen

[10] Jespersen is particularly associated with his studies of the "Great Shift" in the pronunciation of what sounds, which took place between Middle and Modern English?

ANSWER: Vowels

[10] The Great Vowel Shift saw two long vowels combine to form this sound, made from sounding two vowels within one syllable.

ANSWER: Diphthong

5. For 10 points each, answer these bonuses on recently victorious boxers from the British Isles.

[10] This boxer's remarks on homosexuality and women led to a petition calling for him to be removed from the shortlist for Sports Personality of the Year. Nicknamed the "Gypsy King", this boxer's inclusion on the shortlist

was primarily due to him winning the WBA, IBF, WBO and IBO heavyweight titles by defeating Wladimir Klitschko.

ANSWER: Tyson (Luke) **Fury**

[10] The IBF stripped Fury of his title after he refused to fight the mandatory challenger, allowing this boxer to win the title by defeating Charles Martin in April 2016. This man also won gold in the super-heavyweight class at the 2012 Olympics.

ANSWER: Anthony (Oluwafemi Olaseni) **Joshua**

[10] This Belfast-born boxer has moved up to fighting at featherweight after he added the WBA super-bantamweight title to his IBF title by defeating Scott Quigg in February 2016.

ANSWER: Carl **Frampton**

6. The manuscript to this composer's prelude to *the Kingdom* was reportedly covered in yellow stains due to his experiments, for 10 points each:

[10] Name this chemist, who in their spare time composed a piece with movements including 'Dorabella' and 'E.D.U.'

ANSWER: Edward **Elgar**

[10] This Russian chemist who is co-credited with discovering the Aldol reaction composed *In the Steppes of Central Asia*.

ANSWER: Alexander **Borodin**

[10] During the Cold War, the Soviet Union decided to name this reaction after Borodin. This radical reaction generates silver bromide and carbon dioxide in the process of replacing a carboxylate group with a bromide group.

ANSWER: **Hunsdiecker** reaction

7. "Be of good comfort, Master Ridley, and play the man". For 10 points each:

[10] This former Bishop of Worcester had quite a lot to man up about as he supposedly prophesied to his friend Nicholas Ridley "we shall this day light such a candle".

ANSWER: Hugh **Latimer**

[10] The third Oxford martyr, burnt six months later, was former Archbishop of Canterbury Thomas Cranmer who was succeeded the following day by this man.

ANSWER: Cardinal Reginald **Pole**

[10] Pole's successor was this man who served until his death in 1575 and was responsible for the Thirty-Nine Articles that clarified the new Anglican consensus with relation to Catholic and Calvinist doctrine.

ANSWER: Matthew **Parker**

8. From a shop on New York's Canal Street, this artist sold chess sets designed by Takako Saito that replaced the pieces with vials of spices. For 10 points each:

[10] Name this Lithuanian-American artist who wrote the *Fluxus Manifesto* and was the primary coordinator of the Fluxus movement.

ANSWER: George **Maciunas** [muh-CHOO-nuss]

[10] This artist involved with the Fluxus movement created an *All White Chess Set* in which all squares of the board and all the pieces are white. This artist provided printed commands for others to create artworks in the book *Grapefruit*.

ANSWER: Yōko **Ono**

[10] Chess artworks in Fluxus were inspired by Maciunas's reverence for this artist, who in the 1920s became more interested in chess than art. Readymades by this artist include *L.H.O.O.Q.* [ell ash oh oh koo] and a urinal titled *Fountain*.

ANSWER: (Henri-Robert-)Marcel **Duchamp**

9. Less than a week ago, researchers at the University of Oxford announced they had succeeded in building an extremely accurate quantum logic gate. Answer some questions about that, for 10 points each.

[10] Quantum logic gates operate on a small number of these units of quantum information, which, unlike their classical counterparts, can exist in a superposition of more than one state at once.

ANSWER: qubits [or quantum bits]

[10] Unlike most classical logic gates, quantum logic gates have this property, which is only possible if no information is erased, according to Landauer's principle.

ANSWER: reversibility [accept word forms; accept time-invertibility and other equivalents]

[10] This is the specific type of quantum logic gate developed by the research team. Named after an early pioneer of digital physics, it takes three inputs and swaps the second two inputs if the first is a one.

ANSWER: Fredkin gate [or CSWAP gate]

10. Following their performance as Mutt Williams in *Indiana Jones and the Crystal Skull*, this actor noted that they had "dropped the ball" on the series' legacy. For 10 points each:

[10] Name this actor, who starred as Sam Witwicky in the first three films of Michael Bay's *Transformers* series.

ANSWER: Shia Labeouf (pron: SHY-a la-BUFF)

[10] Rob Cantor has produced a song accusing Shia of performing this taboo act. Shia's notable achievements in the song include treating a "legendary fight" as a "normal Tuesday night", and surviving being stabbed in the kidney.

ANSWER: Cannibalism [accept clear-knowledge equivalents, including being an actual cannibal]

[10] Shia's extensive performance art career also includes turning up to a film festival in this city wearing a paper bag over his head bearing the words "I AM NOT FAMOUS ANY MORE".

ANSWER: Berlin

11. Examples of this type of cheese include Roquefort and the most common form of Stilton. For 10 points each:

[10] Name this type of cheese that has cultures of the mould *Penicillium* added during production resulting in distinctive veins of a certain colour.

ANSWER: blue cheese

[10] This blue cheese from the Italian regions of Piedmont and Lombardy is made from unskimmed cow's milk and comes in two varieties: Piccante and Dolce.

ANSWER: Gorgonzola

[10] This blue cheese from the Spanish province of León is traditionally wrapped in sycamore or chestnut leaves before being sent to market.

ANSWER: Queso de Valdeón

12. ACE inhibitors, used to treat high blood pressure, inhibit the function of an enzyme in this hormone system. For 10 points each: -

[10] Name this feedback circuit that regulates sodium concentration as well as blood volume and pressure.

ANSWER: renin-angiotensin-aldosterone-system [accept RAAS or RAS]

[10] Renin is produced by the juxtaglomerular cells of this organ.

ANSWER: kidney

[10] Renin is secreted by the juxtaglomerular cells in response to adrenergic stimulation, a decrease in renal perfusion pressure, or a decrease in sodium concentration, as detected by these chemoreceptor cells of the juxtaglomerular apparatus.

ANSWER: macula densa

13. At the Battle of Marj Dabiq, this defeated sultanate's ruler al-Ghawri may have died from natural causes rather than being killed. For 10 points each:

[10] Name this sultanate whose Burji dynasty lost Cairo to an Ottoman invasion in 1517.

ANSWER: Mamlūk Sultanate (or Mameluke; or Sultānat al-Mamālīk)

[10] The Ottoman conquest of Syria and Egypt was achieved under this Sultan who tripled the size of the empire and was acknowledged as the Muslim world's supreme leader by the Sharif of Mecca.

ANSWER: **Selim I** (or **Selim** the **Grim**; or **Yavuz** Sultan **Selim**; prompt on “Selim”)

[10] Selim I also went to war against Ismail, the Shah and founder of the Safavid Dynasty of this country who opposed the Ottoman Empire’s Hanafi Sunni Islam by changing this country’s religion to Twelver Shia Islam.

ANSWER: **Iran** (or **Persia**)

14. This region of Japan lends its name to the devastating 2011 earthquake that took place just off its coast. For 10 points each:

[10] Fukushima and Yamagata are among the prefectures of what breadbasket region that takes its name from the Japanese for “north-east”?

ANSWER: **Tōhoku** (-chihō)

[10] The Tōhoku region forms the northernmost part of what largest island of Japan, which is also home to the cities of Tokyo and Kyoto?

ANSWER: **Honshu**

[10] The northern terminus of the Tōhoku *shinkansen* is in this city, famous as Japan’s main apple-growing region. It stands at the southern end of the Seikan Tunnel under the Tsugaru Strait.

ANSWER: **Aomori**

15. Some sources have this conflict precipitated by a cow that could produce enough milk for an army, but most instead have the stud bull Donn Cúailnge (pron. KWEL-nyuh). For 10 points each:

[10] The Cattle Raid of Cooley, though predicated on small-scale cow theft, swiftly turns into a full-scale war, waged by Queen Medb of Connaught on the men of this other Irish province.

ANSWER: **Ulster** [accept **Ulaid** (pron. OO-ley)]

[10] The men of Ulster were commanded by this king, who was incapacitated for most of the war by the curse of the goddess Macha, in return for his forcing her to race a chariot while pregnant.

ANSWER: **Conchobar** mac Nessa

[10] The only Ulsterman able to fight despite the curse was this seventeen-year-old nephew of Conchobar, who held the men of Connaught off with the help of his berserk *ríastrad*, and killed his foster-brother Ferdiad in a three-day duel.

ANSWER: **Cú Chulainn** (pron. kuh-HOO-lin) [accept **Sétanta**]

16. The conservation law for this quantity implies translational symmetry invariance, according to Noether’s theorem. For 10 points each:

[10] Name this vector quantity, which is classically defined as the product of mass and velocity.

ANSWER: linear **momentum** [do not accept or prompt on “angular momentum”]

[10] In quantum mechanics, the linear momentum operator is equal to the negative of this constant multiplied by the gradient operator. This constant is the commutator of the position and momentum operators.

ANSWER: **ħ** (times) **h-bar** [or **minus h-bar over i**; accept answers with “reduced Planck constant” or “Planck constant over two pi” in place of “h-bar”]

[10] This Austrian physicist names a theorem that relates the time derivatives of the expectation values of the position and momentum operators with the expectation value of the force on a particle in a scalar potential.

ANSWER: Paul **Ehrenfest**

17. The author of this play wrote in a letter to a friend that it “is not a drama, but a comedy, in parts even a farce.” For 10 points each:

[10] Name this play in which Madame Ranevsky’s title estate is bought at an auction by the former serf Lopakhin.

ANSWER: **The Cherry Orchard** (Accept **Vishnevyy sad**)

[10] *The Cherry Orchard* ends with this servant accidentally locked up in the freezing empty house for the winter.

ANSWER: **Firs**

[10] The first production of *The Cherry Orchard* was directed by this man, who insisted to Chekhov that it was not a comedy or a farce, but a tragedy.

ANSWER: Konstantin Sergeyevich **Stanislavsky**

18. This system applies the status of *dhimmi* to Jews and Christians, meaning that this system does not apply to them unless they wish it to. For 10 points each:

[10] Name this religious legal system, used as the basis for the legal systems in countries such as Iran, Pakistan and Saudi Arabia.

ANSWER: **Sharia** [prompt on anything mentioning 'Islam']

[10] Sharia law is generally derived from two textual sources, although some schools of thought reject laws based on these records of the words and deeds of Muhammad, and accept only those drawn exclusively from the Qur'an.

ANSWER: **Hadiths** [accept **Sunnah**]

[10] Islamic tradition distinguishes Sharia, defined as the principles of divine law, from this school of jurisprudence, concerned with interpreting Sharia principles and applying them to the world.

ANSWER: **Fiqh**

19. One character in this novel routinely orders cream cheese with paprika even though he dislikes it, so he will be remembered at the Cafe Kroner. For 10 points each:

[10] Name this novel about the intertwined history of the Faehmel family and St Anthony's Abbey.

ANSWER: **Billiards at Half-Past Nine** (Accept **Billiard um halb zehn**)

[10] Billiards at Half-Past Nine is a novel by this author of "The Clown" and "Group Portrait with Lady".

ANSWER: **Heinrich Böll**

[10] This novel by Böll is about a woman who shoots the journalist Totges after he allegedly suggests having 'a bang'.

ANSWER: **The Lost Honour of Katharina Blum**, or: how violence develops and where it can lead (Accept **Die verlorene Ehre der Katharina Blum** oder: Wie Gewalt entstehen und wohin sie führen kann)

20. This composer was forced to withdraw their fourth symphony under criticism in Pravda; For 10 points each:

[10] Name this composer who called his fifth symphony "A Soviet artist's creative response to just criticism."

ANSWER: Dmitri **Shostakovich**

[10] This other Shostakovich symphony has a third movement lament dedicated to the patient endurance of Soviet women and its first movement is based on a Yevtushenko poem about a massacre at the title location.

ANSWER: Symphony No. **13** (accept **Babi Yar**)

[10] The fourth movement, entitled "Fears" opens with this instrument playing an eleven note tone row before a men's choir enters.

ANSWER: **Tuba**