

OOT 2019: A Pope for Every Packet

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THE ANSWER TO THE LAST TOSS-UP SHOULD HAVE BEEN: **David Lloyd George**

Packet 3

**Toss-ups:**

1. A work named for this thinker argues that one of their works calls ‘for the liberation of the Dionysian id’. José Merquior argued that William Tuke built on the earlier work of others, contrary to this thinker’s claims in a work that aims to write a ‘history of silence’. This thinker argued that in one ‘paradigm of thought’, the concept of man was ‘not yet defined’. This thinker argued that the dawn of the ‘age of reason’ led to the beginning of a ‘Great Confinement’ and in another work examined the hiddenness and appearance of Velazquez’s *Las Meninas* in a work that attempts to be ‘an archaeology of the human sciences’. For 10 points, name this French philosopher of *The Order of Things* and *Madness and Civilisation*.

ANSWER: Michel **Foucault** <GDC>

2. This figure turns back towards the viewer as he sits holding a musical instrument opposite a dog in a painting depicting him ‘as Orpheus’. This figure stands in front of a green curtain dressed in elaborate armour in another portrait by the same artist. An artist was commissioned by this man to produce a work which required him to add pewter plates to a fire to get molten bronze to reach the extremities of a cast. That work, *Perseus with the Head of Medusa*, stands near a building commissioned by this man which is now a gallery, on which Giorgio Vasari began work, and which now holds *The Birth of Venus*. For 10 points, name this Grand Duke and founder of the Medici dynasty who had the Uffizi built in his home city, Florence.

ANSWER: **Cosimo I** de’ Medici [accept **Cosimo** di Giovanni **de’ Medici**; accept Cosimo il **Vecchio**; prompt on **Cosimo** before ‘Medici’] <IB>

3. Principal component analysis forms the basis for a form of this technique that has a discrete shrinkage effect. Tikhonov regularisation is a method used to perform this technique when the problem is “ill-posed”. Eicker–Huber–White standard errors are often used if the errors from this technique are heteroscedastic. The Gauss–Markov theorem states that under certain conditions a form of technique delivers a best, unbiased, linear estimator. One linear version of this technique minimises the sum of the squares of the differences between observed and predicted values of a dependent variable and is called ordinary least squares. For 10 points, this statistical technique whose linear variety generates a best-fit line.

ANSWER: **regression** [accept anything that mentions **regression** like **principal component regression** etc. Anti-prompt on **ordinary least squares** or **OLS**] <GDC>

4. The only prose fiction work by this author begins with the title character walking through the Vosges [VAWZH], occasionally finding it unpleasant that he couldn’t go on his head. Another work by this author features a philosophical conversation between prisoners including Thomas Payne and suggests that Lucile Desmoulin kills herself following her husband’s death. In this writer’s most famous work, a fragment pieced together from four drafts, the title character, originally named Franz, kills his girlfriend before throwing the murder weapon into a pond. For 10 points, name this German writer whose most famous work, *Woyzeck* [VOY-tseck], was adapted into an opera.

ANSWER: Georg **Büchner** <EL>

5. This man described his Piano Sonata No. 1 in F minor as a 'cry against God, against fate' after sustaining an injury he believed would be permanent. While in London, this man visited the house in which Helena Blavatsky died, and his obsession with theosophy drove him to compose a work which he informally referred to as his 'fourth symphony'. This composer failed to complete a multimedia work whose performance was meant to inaugurate the replacement of humans by 'nobler beings', known as the *Mysterium*. The dissonance of this composer's ninth piano sonata earned it its nickname of 'Black Mass'. For ten points, name this eccentric Russian composer whose fifth symphony contains a so-called 'mystic chord'.

ANSWER: Alexander Nikolayevich **Scriabin** <FL>

6. Emily Dickinson's 'Bereaved of all, I went abroad' ends with the speaker saying that although another object was finished, one of these objects 'remained in memory'. Amy remembers her husband coming inside and standing one of these objects 'up against the wall' in the entryway after watching him use it to carry out the title event of a Robert Frost poem set on a stairwell. One of these objects makes 'a clean rasping sound' under the speaker's window as he watches his father use one in a poem from *Death of a Naturalist*, prompting him to think, 'By God, the old man could handle [one of these objects]'. For 10 points, name this object used to perform the title actions in 'Home Burial' and 'Digging'.

ANSWER: a **spade** [accept **shovel**] <IB>

7. The creator of a subfield of this approach used the equation [say slowly]  $P \cdot E = C$  which is a function of  $k, s \cdot f, r \cdot f, h \cdot i, s \cdot t, m \cdot d$  to model an important phenomenon within it. The developer of another subfield within this approach introduced a token reinforcer system in order to teach people with dyslexia. In an article that is sometimes known as the 'manifesto' of this approach, one thinker rejected the 'law of effect' in favour of a theory that would later be known as 'the principle of reinforcement'. A thinker most associated with this school of thought names a box which is used to study operant conditioning. For 10 points, name this school of psychology advocated by John Watson and B.F. Skinner.

ANSWER: **behaviourism** [accept **interbehaviourism**] <GDC>

8. Lampbrush types of these structures possessing lateral loops extended from condensed regions are found in amphibian oocytes. Supernumerary forms of these structures referred to as B are often parasitic. The formation of B·C·L·A·B·L1 on one of these structures is associated with Chronic Myeloid Leukaemia; that structure is known as the Philadelphia one of these things. These structures have p and q arms and ring types of these structures form with the loss of telomeres. The complete set of these structures is the karyotype. For 10 points, name these nuclear structures, comprised of DNA wrapped around histones, whose trisomy causes Down's Syndrome.

ANSWER: **chromosomes** [accept specific examples, eg **chromosome 21**] <LC>

9. Members of this religion believe that there is a twelve-fold hierarchy of spirits that reflects its twelve-fold earthly hierarchy. This faith's New Canonical Code argues that its spiritual head is 'allowed to communicate with the Thirty-Six Heavens and Seventy-Two Planets to beg for the sanctification of the souls of all believers'. Adherents of this religion maintain that, on Christmas Eve 1925, God identified Himself to them, while the main saint of this religion practiced spiritism on the island of Jersey. In this religion, God is symbolised by a divine left eye. With a name that translates as 'High Tower', for 10 points, name this syncretic religion founded in Vietnam by Ngo Van Chieu that counts among its saints Sun Yat-sen, Pericles, Joan of Arc, and Victor Hugo.

ANSWER: **Caodaiism** [accept **Cao Dai**] <CP>

10. In June 2018, Welshman Ash Dykes began an attempt to become the first person to walk solo along the full length of this river, and one of its tributaries is known as the 'liquor river' due to the manufacture of beverages like Maotai along it. In 2012, one stretch of this river turned bright red near its confluence with the Jialing [jyah-LING], while in 2016 witnesses claimed to have seen a baiji [BYE-jee], previously thought to have gone extinct, in this river. Government officials claimed that floods that year would have been much worse without a construction that earlier required the relocation of a million and a half people, most of them to Chongqing [chong-CHING]. The

Three Gorges Dam is located along, for 10 points, what river of southern China, the longest in Asia?

ANSWER: Yangtze <CJ>

11. A critic used the author's dictum 'Our histories cling to us' in a discussion of the importance of clothing in this novel, such as a soldier stitching a skull and bones onto his uniform. On a train, a woman in this novel talks about how long she had spent braiding her daughter's hair after revealing her severed head in a calabash. A character writes a book titled *The World Was Silent When We Died* about the central event of this novel, in which a boy who leaves his village to work as a servant is later conscripted into the army. In this novel, Richard marries Kainene [kai-uh-NEH-nay], whose twin sister Olanna is married to Odenigbo [o-DEN-igbo], a professor at Nsukka [un-'SUCKER'] University. For 10 points, name this novel set during the Biafran War by Chimamanda Ngozi Adichie.

ANSWER: Half of a Yellow Sun <IB>

12. A single from a band formed in this city opens with the line 'Roller coaster mind arrives right on time – hold on'. A band formed at university in this city inexplicably achieved commercial success in Italy with the album *Pawn Hearts*. An outdoor concert held by a band formed in this city is often known as 'Woodstock for the Baggy generation'. This city, which is where Van Der Graaf Generator and Blue Orchids were formed, is home to a band whose most popular single in the UK tells of a man who 'would go out tonight / but [hasn't] got a stitch to wear'. Another band from this city released a song in which the singer claims that they will 'start a revolution from [their] bed'. For 10 points, *Don't Look Back In Anger* is by Oasis, a band from which Northern city?

ANSWER: Manchester <GDC>

13. Pope Leo X hosted what was perhaps the first state-sponsored instance of this activity in 1521, while Florentines performed this activity in defiance of the 1530 siege by Charles V. Henry III of France described a version of this activity as 'Too small to be a real war and too cruel to be a game', and coroners' records show it was, after archery, the most dangerous recreational activity in sixteenth century England. Both the 'combination' form of this activity and the implementation of its Cambridge Rules took place at Parker's Piece. With antecedents including calcio 0[CAL-chi-o] fiorentino, for 10 points name this sport with a modern 'association' form, whose World Cup was last held in Russia.

ANSWER: football [accept calcio fiorentino before mention, and, if necessary, soccer] <AP>

14. At a crucial moment in this opera, one character declares 'Midday: the hour has come'. Another character in this opera asks to be loved for just an hour, and when she is refused, she curses all paths that lead away from her, after she earlier obtained balsam from Arabia. The title character of this opera is called 'enlightened through compassion' in a prophecy. That character's parents are Gamuret and Heart's Sorrow. The Dresden Amen is used as a leitmotif in this opera, in which the title character retrieves from Klingsor an object that will heal the wound of Amfortas. For 10 points, name this Wagner opera in which the Holy Spear is sought by the title Knight of the Grail.

ANSWER: Parsifal <GB>

15. When performing this technique shimming and spinning can help to reduce inhomogeneities although the latter can lead to spurious "spinning sidebands" in the output. The Solomon equations describe relaxation in this technique. One relaxation time in this technique is always less than twice another one. Those relaxation times are called T2 and T1. One form of the two dimensional type of this technique is called COSY. The output of this technique is usually given as a chemical shift from a standard such as tetramethyl silane. For 10 points, name this spectroscopic technique which detects nuclear spins flipping.

ANSWER: Nuclear Magnetic Resonance (accept NMR, MRI, or Magnetic resonance imaging) <JR>

16. The discovery of gold in this island's Haina River expanded the operation of the mines in its Cibao [see-BOW] region. After the massacre of a village established on Christmas Day here, one man relied on his alliance with the prophet Guacanagarix. The wife of the *cacique* [ca-SEE-keh] Caonabo ['cow'-NAH-bo] on this island was executed after refusing to become the concubine of a Spaniard. Bartolomé de las Casas exposed the crimes of Nicolás de

Ovando during his time as governor of this island, from which Hatüey fled to Cuba and where Enriquillo and Anacaona [ah-nah-'COW'-na] led revolts of the Taíno. For 10 points, name this island of the Greater Antilles, which received a name meaning 'The Spanish Island' after the *Santa María* ran aground on it.

ANSWER: **Hispaniola** <CJ>

17. In one work by this author, a character 'felt how awful goodness is' after Zephon does not recognise them. T.S. Eliot argued that this author's writing style was marred by its focus on 'musical value', and complained that they wrote English 'like a dead language'. Another of this author's characters says they have their 'race of glory run, and race of shame', after lamenting 'My self, my Sepulcher, a moving Grave'. The third book of a different work opens by praising 'holy light, offspring of Heav'n first-born' before this author describes their own blindness. That work by this author opens by declaring that it will 'justify the ways of God to man'. For 10 points, name this author of *Samson Agonistes* and *Paradise Lost*.

ANSWER: John **Milton** <AP>

18. Starting an eight-year exile, one ruler of these people split a gold coin with a friend, who told them to return only when they received the other half. A queen of these people burned her tax lists, believing that her and her husband's excessive taxation was the cause of the sickness of their children. Another ruler of these people waited a year to smash in the head of a man who crushed a bishop's vase. That king, the husband of Clotilde, converted to Christianity after his victory over the Alemanni at the Battle of Tolbiac, and was baptised by St Remigius. For 10 points, name these people led by Childeric and Clovis, of whom Gregory of Tours wrote a *History*.

ANSWER: **Franks** [accept **Merovingians**; do NOT accept 'Carolingians'] <AP>

19. One method of operating these devices is the major application of saturable absorbers, and these devices suffer spatial hole-burning. Techniques used in operating these devices include mode-locking and Q-switching, and one parameter used to describe these devices is the saturation intensity. A neodymium-doped YAG crystal can be used in the four-level type of these devices, which use pumping to achieve population inversion. The first of these devices, invented by Theodore Maiman, used a ruby crystal as its gain medium. For 10 points, name these devices that produce a coherent light beam through stimulated emission of radiation.

ANSWER: **lasers** [or **light amplification by stimulated emission of radiation**] <GB>

20. Mamelund found that this event was associated with a seven times greater number of admissions to psychiatric hospitals in Norway. An aria from the operetta *The Song of Forgetting* was the source of one name for this event, 'the Naples Soldier', while its usual English name derives from the skewed effect of wartime censorship over-emphasising it in neutral combatants. Thought at the time to be caused by Pfeiffer's bacillus, this event killed Apollinaire and Klimt, while King Alfonso XIII survived. Now known to be caused by the viral strain H1N1, for 10 points name this 1918 epidemic which killed twice as many people as the First World War.

ANSWER: **Spanish flu** epidemic <LC>

## **Bonuses:**

1. This river flows south from its source in Mato Grosso and marks the western boundary of the Gran Chaco in one country. For 10 points each:

[10] Name this South American river, the main water source for the Pantanal wetlands, which also runs through its namesake country's capital of Asunción.

ANSWER: **Paraguay** River

[10] The Paraguayan city of Ciudad del Este lies near this landmark on the Paraná River. This large waterfall lies on both sides of the Brazil-Argentina border and has a section known as the Devil's Throat.

ANSWER: **Iguaçu** Falls [or **Iguazu**]

[10] Iguaçu Falls is located near this hydroelectric dam, which in 2015 and 2016 produced more energy than the Three Gorges Dam. Taking its name from the Guaraní language, it lies about 10 miles north of the Friendship Bridge between Brazil and Paraguay.

ANSWER: **Itaipu** Dam <CJ>

2. When this type of radioactive decay occurs, the atomic number decreases by two and the nucleon number decreases by 4. For 10 points each:

[10] Name this type of radioactive decay in which a helium nucleus is emitted. The emitted particles are heavily ionising but can be stopped by a sheet of paper.

ANSWER: **alpha** decay

[10] In order for alpha decay to occur, the particle has to overcome a Coulomb potential barrier, which happens via this phenomenon. This phenomenon allows quantum particles to enter classically forbidden regions.

ANSWER: quantum **tunnelling**

[10] The tunnelling probability can be calculated using this approximation. This approximation assumes that the potential varies on scales which are large compared to the wavelength of the wavefunction. Using this approximation requires the wavefunction to be written as the exponential of another function.

ANSWER: **W.K.B.** approximation or method [accept **Wentzel-Kramers-Brillouin** or **Liouville-Green** or **W.K.B.J.** or **J.W.K.B.** or these in full, where J is for Jeffreys] <LW>

3. This movement saw two ways of conceptualising the nature of the divine: Nirguna Brahman and Saguna Brahman. For 10 points each:

[10] Many scholars believe that this movement was partly aimed at ensuring that women and Shudra people had a path to spiritual salvation.

ANSWER: **Bhakti** movement

[10] The Bhakti movement popularised this practice in India. The Sikh Gurus Angad and Amar Das systematised and formalised this practice as one of the functions of a Gurdwara and a form of this practice involves the provision of the Prasāda [pra-sa-'eh']

ANSWER: **providing** free **food** [accept obvious equivalents]

[10] As well as being a huge influence on Sikhism, the Bhakti movement revolutionised this religion, one of whose sacred texts is the Bhagavad Gita.

ANSWER: **Hinduism** <GDC>

4. A critic accuses this author of essentially 'ignor[ing] or overlook[ing] the history' of a certain country and analyses a scene from one of this author's stories in which a woman leaves her husband's hotel room to watch the stars in the desert. For 10 points each:

[10] Name this author who included 'The Adulterous Wife' and 'The Renegade' in a collection partly exploring his sense of isolation from his country of birth.

ANSWER: Albert **Camus**

[10] This thinker criticised Camus for not giving names to ‘Arabs’ in works like *The Plague*. Elsewhere this postcolonial critic discusses the damaging archetype of Flaubert’s Egyptian courtesan and draws attention to Sir Thomas’s plantation in *Mansfield Park* in the chapter ‘Jane Austen and Empire’.

ANSWER: Edward **Said**

[10] Algerian author Kamel Daoud responded to Camus in *The Meursault Investigation*, whose narrator is the brother of a nameless Arab killed on the beach in this Camus novel. Daoud plays on this novel’s famous opening line with his own, ‘Mama’s still alive today’.

ANSWER: *The **Stranger*** [or *The **Outsider***; accept *L’**Étranger***] <IB>

5. In the early days of the Olympics, there was a music contest, in which in 1932 this composer was the only entrant to win a medal, though he still only got silver. For 10 points each:

[10] Name this composer who decided to write his *Asrael Symphony* after the death of his father-in-law.

ANSWER: Josef **Suk**

[10] That father-in-law was this Czech composer, whose *Symphony No. 9* is subtitled ‘From the New World’.

ANSWER: Antonín Leopold **Dvořák**

[10] Both Suk and Dvořák composed one work in this genre for strings; Dvořák’s has five movements, including a second movement waltz and third movement scherzo. Ralph Vaughan Williams wrote a piece of this type ‘to Music’.

ANSWER: **serenade** [accept ‘**serenade** for strings’, ‘**serenade** for string orchestra’ or ‘string **serenade**’] <GB>

6. At the end of this film, Snow commits suicide after she accidentally kills Sword, and Nameless is put to death by the Emperor. For 10 points:

[10] Name this film set in the Warring States period in which Sword makes love to Moon after Snow betrays him. This film was the second Chinese film to be nominated for a Best Picture Oscar.

ANSWER: **Hero**

[10] *Hero* stars this Chinese film star, who is perhaps most famous for the *Once Upon a Time in China* series and *The Expendables*.

ANSWER: Jet **Li**

[10] *Hero* was a film of this genre, which involves the adventures of practitioners of martial arts. Other films in this style include *Crouching Tiger Hidden Dragon* and *The Duel of the Century*.

ANSWER: **wuxia** [or **martial heroes**] <GDC>

7. Les Field examines the tension between constructivist and essentialist narratives of identity by examining the experiences of people living in this state. For 10 points each:

[10] Name this state. One thinker coined the term tribelets to refer to a level of organisation common to native people living here and developed the notion of ‘culture area’ by examining the cultural habits of people living here.

ANSWER: **California**

[10] This thinker studied Ishi to understand the Yahan language that was spoken in California. This thinker is also the alphabetically-prior namesake of a linguistic hypothesis that holds that a speaker’s worldview is influenced by the language they speak.

ANSWER: Edward **Sapir**

[10] Ishi showed Sapir and other anthropologists a technique to run long pressure flakes into this material. A technique that creates tools using this material is knapping, which originated in an age named for the fact that early humans built tools from this material before the advent of metalwork.

ANSWER: **stone** <GDC>

8. In one work, actor Lawrence Goldhuber recited a text by this artist while Jones danced with and around him. For 10 points each:

[10] Name this artist. A work by this artist that was included on a dress at the 2018 Grammys includes the line ‘The reckoning will be hastened by the staging of seed disturbances. The apocalypse will blossom’.

ANSWER: Jenny **Holzer**

[10] Jenny Holzer was the second female artist to represent this country at the Venice Biennale. Other artists from this country include Barbara Kruger and Georgia O’Keeffe.

ANSWER: United States of **America**

[10] Holzer did an installation using this medium in the lobby of 7 World Trade Centre and frequently uses this medium in her signboards. Works in this medium include Bruce Nauman’s *Human/Need/Desire* and *Work 227*, which won Martin Creed the Turner Prize.

ANSWER: **light** [accept more specific types of lighting, like neon **light** or **LEDs**] <GDC>

9. These sets are defined as any sets of real numbers such that if ‘a’ and ‘b’ are elements then any number ‘c’ strictly between ‘a’ and ‘b’ is also in the set. For 10 points each:

[10] Name these subsets of the reals which can be open, closed or half open half closed and are informally the set of all points between two endpoints.

ANSWER: **interval**

[10] The intervals are the only subsets of the reals with this property. Sets without this property can be written as a union of two disjoint subsets.

ANSWER: **connectedness** [accept word forms such as “**being connected**” or generously “**not being disconnected**”]

[10] Intervals being connected means that continuous functions have the intermediate value property. This mathematician names a stronger theorem which states that every function which is the derivative of another function has the intermediate value property.

ANSWER: **Darboux** <JR>

10. This man avoided the attention of authorities after Donald Maclean and Guy Burgess, whom this man had met while an Honorary Fellow at Trinity College, fled the country, though he was eventually outed by Michael Whitney Straight. For 10 points each:

[10] Name this man who was stripped of his knighthood after Margaret Thatcher confirmed the accusation made in Andrew Boyle’s book *Climate of Treason*.

ANSWER: Anthony **Blunt**

[10] MI5 learned about Maclean and Burgess’ espionage from Anatoliy Golitsyn, a Soviet defector and former member of this security agency that replaced earlier bodies like the NKVD and MGB.

ANSWER: **KGB**

[10] KGB archives have been used in recent years to argue that this former US State Department official was in fact a Soviet spy during the 1940s. This man was accused of being a Communist by Whittaker Chambers and convicted of perjury in 1950.

ANSWER: Alger **Hiss** <CJ>

11. For 10 points each, name the following places that were part of Dutch colonization in Southeast Asia:

[10] The Dutch East India Company captured this key trading city, located on a namesake strait, in 1641 in alliance with the Sultan of Johor. It became part of the Straits Settlements when it was ceded to the British, but is still home to a Dutch Stadthuys [stat-HOUSE], or city hall, with a distinctive red clock tower.

ANSWER: **Malacca**

[10] During the period of Dutch rule, Malacca declined as this other city, the future site of Jakarta, gained prominence. It was a center of sugarcane cultivation in the eighteenth century, and after a massacre in 1740, Chinese settlers here were forcibly relocated to its district of Glodok.

ANSWER: **Batavia**

[10] This sultanate on the northern tip of Sumatra resisted Dutch conquest until 1874. Known as the ‘porch of

Mecca', it was a centre of Islamic scholarship and culture in the region and gained its largest territorial extent under its ruler Iskandar Muda.

ANSWER: Sultanate of **Aceh** [AH-che] <CJ>

12. The synthesis of these molecules begins by the condensation of a malonyl and an acetyl group and proceeds by chain elongation whilst attached by a thioester bond to these molecules' namesake synthase. For 10 points each:

[10] These lipids are broken down in beta oxidation, producing N·A·D·H and F·A·D·H·2. Three of these molecules with one molecule of glycerol form a triglyceride molecule.

ANSWER: **fatty acids**

[10] In this cycle, acetyl Co·A is converted to succinate and used for gluconeogenesis, and so avoids loss of carbon as carbon dioxide. It requires the enzymes malate synthase and isocitrate lyase, and so is thought to only occur in plants, fungi and bacteria.

ANSWER: **glyoxylate cycle**

[10] The glyoxylate cycle is a modification of this central metabolic pathway, in which acetyl Co·A reacts with oxaloacetate, the product of which then undergoes decarboxylation and oxidation to produce reduced compounds which can be utilised to generate A·T·P via oxidative phosphorylation.

ANSWER: **Krebs** cycle or **TCA** cycle or **citric acid** cycle or **tricarboxylic acid** cycle <LC>

13. During his exile, the emperor Justinian II married the sister of one of the qaghans [kar-garn] of this polity which ruled the region north of the Black Sea. For 10 points each:

[10] Name this polity which emerged from the collapse of the Gök Türks, and which was the only medieval state to convert to Judaism.

ANSWER: **Khazars**

[10] Initially nomadic, from the late 8th century the Khazars established this non-Astrakhan city to the north of the Caspian Sea as their capital, which enjoyed a brief period of great wealth through its control of trade on the Volga delta.

ANSWER: **Atil**

[10] In the 960s, Atil was sacked by a group of these people under Sviatoslav I based in this city. Sviatoslav's son Vladimir I married Anna Porphyrogenita and converted the Rus' people of this city, the capital of modern Ukraine, to Christianity.

ANSWER: **Kiev** <AP>

14. Robert Barro developed this man's namesake equivalence, which assumes families act as infinitely lived dynasties because of intergenerational altruism. For 10 points each:

[10] Name this economist, who argued against mercantilists who claimed that trade surpluses in order to gain bullion were the ultimate goal of international trade in their work *On the Principles of Political Economy and Taxation*.

ANSWER: David **Ricardo**

[10] This economist founded the neo-Ricardian school. This economist's critique of neoclassical theories of value led to their creation of a technique of aggregating capital as 'dated inputs of labour'.

ANSWER: Piero **Sraffa**

[10] Sraffa's theory of value led to a so-called 'capital controversy' named for two places with this name. One of the universities involved was a UK university, and the other is the location of MIT in the USA.

ANSWER: **Cambridge** <GDC>

15. Jonathan Culler discusses how this rhetorical device has generally been ignored by critics, and criticises Harold Bloom's 'I-Thou' model for omitting the reader from the relationship this device sets up. For 10 points each:

[10] Name this figure of speech in which a speaker 'turns away', often to address an inanimate object or an abstract quality. Examples in poetry include 'O Rose, thou art sick' and 'O wild west wind, thou breath of Autumn's being.'

ANSWER: **apostrophe**

[10] Giorgio Agamben has described the opposition between semantic and metrical pauses in this technique as perhaps the only criterion distinguishing prose from poetry. In this technique, the incomplete syntax of a line runs on into the following one, as in 'April is the cruellest month, breeding / [PAUSE] Lilacs out of the dead land.'

ANSWER: **enjambment** [prompt on line breaks]

[10] Roman Jakobson has discussed how, while metaphor is usually associated with poetry, this other rhetorical device is generally associated with the realist novel. Synecdoche and metalepsis are examples of this device, in which an object is referred to by the name of something closely associated with it.

ANSWER: **metonymy** <IB>

16. A poem by this author opens 'I can hear little clicks inside my dream. / Night drips its silver tap / down the back. / At 4 A.M. I wake.' For 10 points each:

[10] Name this author, who wrote a verse novel whose protagonist Geryon falls in love with Herakles, who leaves him, only for the two to meet again on a trip to Argentina.

ANSWER: Anne **Carson**

[10] Anne Carson is a poet and classicist from this country. Lucy Maud Montgomery set a series of works about Anne of Green Gables on Prince Edward Island in this country.

ANSWER: **Canada**

[10] This poet grew up in Nova Scotia, Canada after the death of her parents. This poet wrote of a 'dirty' filling station in one work and also wrote the poem *Armadillo*.

ANSWER: Elizabeth **Bishop** <GDC>

17. Places where this substance naturally escapes to the Earth's surface are known as seeps. For 10 points each:

[10] Name this naturally-occurring liquid mixture of hydrocarbons which forms when large quantities of dead organisms are subjected to high temperature and pressure underground.

ANSWER: **petroleum** [or **crude oil**]

[10] When petroleum reaches the Earth's surface, lighter fractions tend to biodegrade first, leaving this extremely viscous mixture of heavy hydrocarbons.

ANSWER: crude **bitumen** [or natural **asphalt**]

[10] Petroleum fails to reach the Earth's surface when it is trapped underneath a non-permeable rock type. Such rock types are given this general name.

ANSWER: **caprock** [prompt on seal] <AH>

18. The casualties at this 1298 battle included Macduff of Fife. For 10 points each:

[10] Name this early victory for Edward I in the First Scottish War of Independence, the first recorded instance of Scottish troops using a close-packed static formation called a 'schiltron'. The oldest known English roll of arms is named for this battle and contains the names and shields of 111 people who fought there.

ANSWER: Battle of **Falkirk** [or **Blàr na h-Eaglaise Brice**]

[10] This Scottish leader was defeated at Falkirk and resigned as Guardian of Scotland shortly after. Having previously defeated the English at Stirling Bridge, he became an iconic figure and the subject of a 15th-century epic by Blind Harry.

ANSWER: William **Wallace**

[10] The English and Scottish were still at it in 1542, when this battle took place. Henry VIII initiated this battle after the Scottish king James V refused to break with Rome; this Scottish defeat is believed to have triggered James V's illness and death.

ANSWER: Battle of **Solway Moss** <AH>

19. Answer these questions on Charles Dickens' social circle. For 10 points each:

[10] Walter Savage Landor, a friend of Dickens, was caricatured by this *Bleak House* character. An old friend of John Jarndyce, this character spends much of the novel warring with Sir Leicester Dedlock over a garden path.

ANSWER: **Lawrence Boythorn** [either underlined part acceptable]

[10] Dickens enjoyed a close friendship with this author; they were travelling buddies, and likely solicited sex workers together. Dickens serialised this author's novel, *The Woman in White*, in his literary magazine *All the Year Round*.

ANSWER: Wilkie **Collins**

[10] Edgar Allan Poe fell out with Dickens after this other author, also a friend of Dickens, wrote an article denouncing American poetry. This author's most famous novel is framed as a puppet show, and the main character works as a governess to Sir Pitt Crawley before marrying his son Rawdon.

ANSWER: William Makepeace **Thackeray** <DC>

20. This weather formation was first recorded by Asaph Hall in 1876. For 10 points each:

[10] Name this storm on Saturn, which occurs approximately every 28.5 years, and was last observed from 2010 to 2011.

ANSWER: **Great White Spot** [or **Great White Oval**; accept **Northern Electrostatic Disturbance**; accept **Great Springtime Storm**]

[10] The Great White Spot was most recently photographed by this space probe, which was the first to enter Saturn's orbit. Its mission ended in 2017 with the 'Grand Finale', a series of passes between Saturn and its inner rings before plunging into its atmosphere.

ANSWER: **Cassini-Huygens** [accept **Cassini**; prompt on **Huygens**]

[10] The Cassini mission included the lander *Huygens* [HOY-gens], which landed on this moon in 2005. By landing on this largest moon of Saturn, *Huygens* made the furthest landing from Earth ever by a spacecraft.

ANSWER: **Titan** <AH>