OOT 2020: [The Search for a Middle Clue]
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THE ANSWER TO THE LAST TOSS-UP SHOULD HAVE BEEN: Henry

Packet 10

Toss-ups:

1. Rana Sweid and Eyal Goldman attend this tournament in the experimental film *Strangers*. The manager of one team in this tournament said after one match that 'Jesus Christ may be able to turn the other cheek, but [one player] isn't Jesus Christ'. Another player was called 'the most hated man in Trinidad and Tobago' after pulling Brent Sancho's dreadlocks before scoring a header for England in this tournament. Valentin Ivanov handed out four red cards and sixteen yellows during a match in this tournament between Portugal and the Netherlands called 'the Battle of Nuremberg'. David Trezeguet missed the only penalty in its final. Zinedine Zidane was sent off for head-butting a player in the final of, for 10 points, what football tournament hosted by Germany?
ANSWER: **2006** FIFA **World Cup** [prompt on World Cup with 'which year?'] <GDC>

2. A hypothesis named for a thinker from this country claims that scientific advancement is mainly the result of the work of mediocre researchers. One thinker from this country tried to resolve the conflict between experience and reason by developing the concept of 'ratio-vitalism'. That thinker from this country argued for a life lived nobly as opposed to as a 'mass-man' in their work *The Revolt of the Masses*. Another thinker born in this country claimed that 'philosophy belongs *in medias res*' and is best-known for their aphorisms, like 'those who cannot remember the past are condemned to repeat it'. For 10 points, name this country, the birthplace of José Ortega y Gasset and George Santayana.
ANSWER: **Spain** <GDC>

3. Jack Weatherford wrote a 2010 book about this people's queens. The daughter of John IV of Trebizond married one ruler of these people, and another employed the female minister Fatima during a civil war between the Borjigids and the Oirats. A queen of these people converted to Nestorian Christianity and persuaded her husband not to turn the entirety of a conquered country into a pasture. Another princess of this people defeated thousands of suitors in wrestling matches and advised her father Kaidu, while this non-Byzantine people's *Secret History* discusses how Börte gave birth shortly after being kidnapped and rescued by her husband, Temüjin. For 10 points, name this people ruled by *khatuns* and *khans* like Genghis.
ANSWER: **Mongol**s <CJ>

4. One character in a play by this author reports being told to 'piss off' by a monk in Luton because he asked for a pair of shoes. This playwright's authorised biographer Michael Billington argued that Sidcup acts as a 'Kentish Eldorado' in their works. In another play by this author, a woman refuses to 'go the whole hog' in a sexual encounter with Joey. A play by this author begins with Aston inviting the homeless Davies into his flat and later offering him the title job, while in another, a speaking tube delivers instructions to the hitmen Ben

and Gus, who receive food through the title device. For 10 points, name this playwright who portrayed Ruth's *Homecoming* and wrote *The Caretaker*, whose 'comedies of menace' also include *The Dumb Waiter*.
ANSWER: Harold **Pinter** <NC>

5. The fact that this system is not correctly reached when modelling dissociation past the Coulson-Fischer point is one of the most important failings of restricted Hartree-Fock theory. Accounting for special relativity breaks a degeneracy of this system that arises due to conservation of the Runge-Lenz vector. Excited states of this system exhibit a linear Stark effect in the presence of an electric field. The radial part of the solution to this system is given by the associated Laguerre polynomials, and the most probable separation of this system's two components in the ground state defines the Bohr radius. With a ground state energy of approximately minus half a Hartree, for 10 points, name this system consisting of one electron bound to one proton.
ANSWER: the **hydrogen** atom [accept **hydrogen-like atom** before 'Bohr radius'; do NOT accept answers including 'ion' or 'molecule'] <AG>

6. An early work by this artist depicts a man next to a hotel window looking at a blonde woman who is pretending to be asleep. This artist extended the left-hand side of a painting of three nude figures to incorporate the head of a woman who was originally portrayed from the upper arms down. This artist supposedly spent 4,000 hours painting their mother, creating works including a portrait of her wearing a butterfly jersey. A work by this artist of *After Cezanne* depicts their lover Kitty Garman in a yellow dress with one breast exposed, and they also painted Sue Tilly in one work. For 10 points, name this British artist of *Benefits Supervisor Sleeping*.
ANSWER: Lucian **Freud** <GDC>

7. Charles K. Armstrong wrote about the 'logic and limits' of this belief system. Another name for the fibre vinylon is derived from this belief system. A statue dedicated to a submovement within this belief system is the Chollima statue, and a tower named for it is modelled on the Washington Monument, but is around one metre taller. A ritual practice within this belief system is an artistic and gymnastics festival called the Arirang Games. This belief system emphasises the importance of *songun*, and its major written work argues that the masses owe unquestioning obedience to the Great Leader. Translating as 'self-reliance', for 10 points, name this national ideology of North Korea.
ANSWER: **Juche** [joo-chay] [prompt on self-reliance until mention; prompt on descriptive answers like the ideology of North Korea] <GDC>

8. Claude de Fordbin advised against an expedition in support of this person organised by the Comte de Pontchartrain, which was later intercepted by Admiral George Byng. The collapse of the South Sea Company was seen by Atterbury as an opportunity to enact a plot in favour of this person, whom James Paynter had led an earlier uprising in support of in Cornwall. This person abandoned their supporters who had fought at Sheriffmuir and Preston, leaving Montrose after spending just over a month in Scotland. Supposedly smuggled into Mary of Modena's bed in a warming pan to be her son, for 10 points, name this father of Bonnie Prince Charlie and son of James II.
ANSWER: James Francis Edward Stuart 'the **Old Pretender**' / **James III** of England / **James VIII** of Scotland [prompt on James Stuart, then accept any answer that identifies him as the son of James II until the end; prompt on Pretender] <AP>

9. The microenvironment in the active site of this enzyme shifts the equilibrium constant for the reaction it catalyses by five orders of magnitude. The number of c subunits in this enzyme complex ranges from 8 in mammals to 15 in a cyanobacterium. By attaching a fluorescently-labelled actin filament to the gamma subunit of this complex, Noji and Yoshida showed that the catalytic domain rotates in discrete 120-degree steps. Although much smaller than a bacterial flagellum, Paul Boyer described this enzyme as a 'splendid molecular machine', due to the near-100% efficiency of its rotary motor mechanism. For 10 points, name this enzyme that uses a proton current to catalyse the conversion of ADP and inorganic phosphate into ATP.
ANSWER: **ATP synthase** [or **F-type ATPase** or **F$_O$F$_1$ ATPase**; accept **ATP synthetase**; accept answers with **adenosine triphosphate** in place of 'ATP'; accept **complex V**] <ML>

10. This instrument plays a central role in *joropo* [ho-RO-po] music, which exploits its percussive properties to create energetic dance tunes called *golpes*. The Burmese *saung* is one of the few ancient instruments of this type still extant in Asia, while the *konghou* type of this instrument has been revived in China. That Chinese version of this instrument differs from Western examples by having a double bridge. One of the oldest Celtic examples of this instrument was falsely held to belong to Brian Boru and is trademarked by Guinness. For 10 points, name this plucked string instrument, the cláirseach [KLAR-shuck] form of which appears on the coat of arms of Ireland.
ANSWER: **harp**s <ML>

11. The protagonist of one story by this author forsakes his lover after seeing her father punish a soldier, and one of this author's title characters cuts off his own finger to avoid being seduced. In another work by this author of 'After the Ball', the protagonist refuses to run after his wife's lover in his socks after committing a crime blamed on the harmful power of 'carnal love'. The title character of one of this author's novellas has his servant hold his legs above his shoulders and screams for three days. Pozdnyzhev's wife has an affair with a violinist in one work by this author, and in another the title character is cared for by Gerasim after injuring himself hanging up curtains. For 10 points, name this Russian author of *The Kreutzer Sonata* and *The Death of Ivan Ilyich*.
ANSWER: Leo **Tolstoy** [accept Lev Nikolayevich **Tolstoy**] <CJ>

12. Hagen and Frankel emphasise the importance of question-asking in order to increase the effectiveness of this technique. Michael Chekhov's 'psychological gesture' approach to summarising emotion is a tool used in this technique. Stella Adler was a proponent of this technique, though she split with the man who popularised it in America, Lee Strasberg. The argument that users of this technique give the effect of a 'photograph' rather than an 'oil painting' was first put forward by Bertolt Brecht. Daniel Day-Lewis employed this technique when he refused to talk to people out of character on the set of *Lincoln*. For 10 points, name this acting technique, originally developed by Konstatin Stanislavski.
ANSWER: **method** acting [accept **Stanislavski** system before mentioned; prompt on acting] <GDC>

13. A thinker with this name applied CCA analysis to the measurement of credit risk in a model named for them. A thinker with this surname names a life-time portfolio selection problem under uncertainty. Another thinker with this last name examined the role of 'innovation' in a theory of deviance that was illustrated with their analysis of the American dream. A thinker with this last name, who developed the CUDOS theory of norms in science, also introduced the 'middle-range' approach to sociology and developed the 'strain' theory of deviance. For 10 points, what is the last name of the thinker who coined the terms 'self-fulfilling prophecy' and 'role model'?

ANSWER: **Merton** <GDC>

14. Passing particles could deform one type of these regions in a way that encodes their properties; that deformation would be an example of the holographic principle. The 'particle' type of these regions is located at a distance given by the speed of light multiplied by the conformal time since the start of the universe. An entropy named for Bekenstein is proportional to the area of one type of these regions. Hawking radiation is emitted when virtual particles pair-create near one kind of these entities that might possess a 'firewall'. That is the 'event' type of these regions, which surround black holes. For 10 points, name these boundaries in cosmology beyond which we cannot communicate.
ANSWER: **horizon**s [accept **event horizon**s; prompt on black holes before mention] <LW>

15. One politician from this place described its parties as having taken a 'noble risk', while a national leader said in a conversation with Clyde Wells that a proposed designation of this place 'means dick'. Bill 101 was passed to govern one aspect of life in this place. One party was reduced to two seats in Parliament following a national referendum that rejected the recognition of this region as a 'distinct society' within its country. A schizophrenic man broke into 24 Sussex Drive and threatened the Prime Minister with a knife after 50,000 votes defeated a 1995 referendum on the status of this province, which was also the subject of the Meech Lake and Charlottetown Accords. For 10 points, name this only fully Francophone Canadian province.
ANSWER: **Quebec** <CJ>

16. When one character in this novel meets one of the protagonists, she describes him as having 'a heart-shaped face, like an angel by Dante Gabriel Rossetti'. The father of a protagonist of this novel throws the clothes of his dead wife into the sea, which he makes his son drink from after catching him eating a second helping of Christmas pudding. A protagonist of this novel is taught how to gamble on horses by Ian Wardley-Fish and meets the other protagonist after he flips a coin and goes on a ship headed for New South Wales. The two title characters of this novel bet on whether a glass church can be delivered to Boat Harbor by Good Friday. For 10 points, name this novel about two gamblers by Peter Carey.
ANSWER: *Oscar and Lucinda* <GDC>

17. *Description acceptable.* A popular service for this task uses 'packs', which consist of multiple delta compressed 'packfiles'. Subversion, a software by Apache designed for this task, includes file locking for 'reserved' files. One service for this task was built with criteria that included adopting a workflow similar to BitKeeper. A distributed model of this task does not speed up pulls. In systems designed for this task, merge conflicts can occur between competing branches. Linus Torvalds developed a popular system for this task that involves pushing commits to a repository. For 10 points, name this task performed by Git that maintains different instances of a code base.
ANSWER: **version control** [or **revision control**; or **source control**; accept answers like **tracking/storing** different **changes/versions** of code; prompt on merging, pulling, pushing, committing, or creating branches with 'in what context?'; prompt on Git before mention; prompt on storage with 'what is stored?'; prompt on organization; prompt on maintenance; prompt on collaboration or related answers] <LM>

18. A festival of this dance draws 100,000 people annually to the town of Seinäjoki [say-nah-YOH-kee], Finland. Traditionally, couples performing this dance change partners during a short 'curtain' after a set of three to five songs called a *tanda*. This dance almost always occurs in a two-four or four-four time signature, as opposed to the three-four *vals* that may accompany it. In the 1990s, Susanna Miller popularized a new style

of this dance named for the *milongos* where this dance historically took place; in that variation, partners hold each other chest-to-chest, mimicking the crowded conditions in the bars and brothels where it was created. For 10 points, name this dance that originated in working-class *barrios* of Montevideo and Buenos Aires.
ANSWER: **tango** <CJ>

19. At one site, the decline in these objects in favor of similar but shorter artefacts has been connected to the increasing prominence of high-status female graves. The British Museum's Kirkburn example of these objects is decorated with red enamel, which may represent blood. Many of these objects have been discovered apparently deliberately bent and rendered ineffective in an act of 'ritual killing' before being deposited in both graves and lakes, such as Neuchatêl. Over 150 of these objects were recovered at La Tène along with other military equipment such as shield bosses; they may have been ritually deposited, inspiring later legends of the Lady of the Lake. For 10 points, name these weapons, whose long Celtic types were designed for slashing, unlike the thrusting Roman *gladius*.
ANSWER: **swords** <OSC>

20. An author who helped found a poetry movement named for these places wrote the work *Rhymeprose on a Miniature Landscape Garden*. That movement named for these places was made up of Japanese monks writing in Chinese and included authors such as Kokan Shiren. There are three haikus in *The Narrow Road To The Deep North* dedicated to each of these places found at Dewa. The name of the poet Hanshan literally means a cold one of these places. A school of Chinese landscape poetry is named for these places and rivers. Issa Kobayashi imagined a snail climbing, for 10 points, what kind of place, an example of which in Japan is Fuji?
ANSWER: **mountain**s <GDC>

Bonuses:

1. The name for this approach to post-Fordist analysis in sociology was coined by Destanne de Bernis in the early 1970s. For 10 points each:
[10] Name this French school of thought. Robert Boyer wrote an influential book on this school, which examines the 'competition' and 'monopolistic' modes of the concept for which this school is named.
ANSWER: **regulation** school.
[10] Another school of post-Fordism is the 'neo' form of the thinking of this economist, whose view of business cycles incorporates Kondratiev waves and is outlined in their work *Capitalism, Socialism and Democracy*.
ANSWER: Joseph **Schumpeter**
[10] Post-Fordism is popular with intellectuals in this country, an example being Antonio Negri. An earlier thinker from here, Antonio Gramsci, coined the term 'cultural hegemony' while in prison.
ANSWER: **Italy** <GDC>

2. One diversion in this play is provided by Elíades, who organises cockfights. For 10 points each:
[10] Name this play, in which an alternative source of entertainment is provided by Juan Julián, who ends up falling in love with Conchita and is eventually shot by Cheché.
ANSWER: *Anna in the Tropics*
[10] *Anna in the Tropics* made this playwright the first Latinx winner of the Pulitzer Prize for Drama. Their most recent work is *Exquisite Agony*, and they frequently collaborate with Peruvian-American composer Gabriela Lena Frank.
ANSWER: Nilo **Cruz**
[10] The immigrant cigar rollers in *Anna in the Tropics* work in this U.S. state, where Zora Neale Hurston lived most of her life. The play is set in Ybor City, a neighbourhood of this state's city of Tampa.
ANSWER: **Florida** <AH>

3. This construction can be studied using the unit quaternions and noting that quaternions can be used to encode a rotation of the two-sphere. For 10 points each:
[10] Name this construction, in which a fibre bundle has spheres as the total space, base space and fibre.
ANSWER: **Hopf** fibration
[10] Quaternions can also be useful in defining this product operation. This vector operation can be summarised by encoding vectors as imaginary quaternions, performing quaternion multiplication, and then taking the imaginary part.
ANSWER: **cross product** [accept **vector product**; prompt on wedge product asking for the specific term in 3 dimensions]
[10] Quaternions are an extension of the complex numbers and feature three 'imaginary units', usually denoted i, j and k, which all square to this number. This is also the square of the imaginary number i in complex algebra, and cannot be the square of any real number according to a so-called 'trivial inequality'.
ANSWER: **minus one** [accept **negative one**] <JR>

4. This term, coined by François Matthes and further developed by Hubert Lamb, describes a phenomenon possibly caused by changes in oceanic currents and decreased global human population. For 10 points each:
[10] Name this term, which designates a period of climate history lasting from about 1400-1850. Emily Oster has argued that the phenomenon this term describes contributed to a rise in witch trials.
ANSWER: **L**ittle **I**ce **A**ge

[10] Debate continues over the exact relationship of the Little Ice Age to the collapse of Viking colonies in this place, which had a bishop at Garðar [Gar-thar]. Those colonies were founded after Erik the Red's departure from Iceland.
ANSWER: **Greenland**
[10] Hubert Lamb founded the Climatic Research Unit at this university, which has become a major centre for climate change research. The CRU was falsely accused of manipulating climate data after a 2009 email hack.
ANSWER: **U**niversity of **E**ast **A**nglia <AP>

5. This structure takes its common name from the German mercenaries who were at one time quartered there. For 10 points each:
[10] Name this fourteenth-century structure, originally meant for assemblies and public ceremonies, but today best known for its collection of sculptures, such as Cellini's *Perseus with the Head of Medusa* and a Roman copy of the Hellenistic Pasquino Group.
ANSWER: **Loggia dei Lanzi** [accept **Loggia della Signoria**]
[10] The Loggia dei Lanzi is in this Tuscan city, where the two lions now on display in the Loggia were brought from the Villa Medici along with the *Perseus* commissioned by Grand Duke Cosimo.
ANSWER: **Florence** [accept **Firenze**]
[10] This mannerist sculptor's *Hercules and Nessus* is on display in the Loggia, along with their masterpiece, carved from a single block of marble and designed to be viewed from all angles, *The Rape of the Sabine Women*.
ANSWER: **Giambologna** [accept **Jean de Boulogne** and **Giovanni da Bologna**] <OSC>

6. Name some islands around Manhattan, for 10 points each:
[10] Approximately 12 million immigrants to the United States in the early twentieth century passed through the inspection center on this island in New York Harbor, which also had a facility for holding migrants in medical quarantine.
ANSWER: **Ellis** Island
[10] This island in the East River between Queens and the Bronx is home to a notorious jail complex, which the New York City Council voted in 2019 to close down by 2026.
ANSWER: **Rikers** Island
[10] More than one million people, mostly infants and homeless or other indigent people who died in hospital, are buried in trenches in this island's vast City Cemetery. In the 1980s, the city's first AIDS victims were buried here in separate graves for fear that the disease might contaminate other corpses.
ANSWER: **Hart** Island <CJ>

7. For 10 points each, name the following about Ottoman jurisprudence:
[10] Initially, Ottoman law was based almost entirely on this Islamic law, interpreted by the *ulema* and ruled on by *qadi*s.
ANSWER: **Sharia**
[10] Ottoman jurists followed this school of interpreting Sharia. According to this doctrine, if the Quran and hadith are not in agreement, then the consensus of Muhammad's companions, local custom, and interpretation and analogies drawn by an individual jurist are also acceptable to follow.
ANSWER: **Hanafi**

[10] Ottoman law also used this secular legal system. The ability to pass this type of law allowed for centralization of power under the sultan, the passing of laws on matters not addressed by sacred texts, and in some cases the overruling of religious law.
ANSWER: **Kanun** <CJ>

8. This equation describes the variation in equilibrium constant with temperature and is named after the first winner of the Nobel prize in Chemistry. For 10 points each:
[10] Give the specific name by which this equation is known, when applied to reactions at constant volume.
ANSWER: **Van 't Hoff isochore** [prompt on Van 't Hoff equation]
[10] The Van 't Hoff equation includes a factor of this quantity over R T squared on the right hand side. This quantity is the heat of reaction at constant pressure and is symbolised delta H.
ANSWER: Standard **enthalpy change** [accept standard enthalpy of reaction; prompt on enthalpy]
[10] Among van 't Hoff's other contributions to chemistry was the realisation that the tetrahedral geometry of carbon atoms could account for this phenomenon, by which a substance rotates the plane of plane-polarised light.
ANSWER: **optical activity** [prompt on chirality] <AG>

9. Answer some questions on the economic history of the counties of Kent, Sussex, and Dorset, for 10 points each:
[10] Name this illegal activity. The Hawkhurst Gang engaged in this activity to evade taxation on the import of alcohol and tea for nearly fifteen years before their defeat by a local militia at the 1747 Battle of Goudhurst.
ANSWER: **smuggling**
[10] One of the Hawkhurst Gang's most daring raids was on the Custom House in this Dorset town to recover their own confiscated shipment. This town's large natural harbour contains the island where Baden-Powell set up the first Scout camp.
ANSWER: **Poole**
[10] The *Mermaid* and *Olde Bell* inns in this town were connected by a secret passage and used by the Hawkhurst Gang. This town replaced New Romney as one of the Cinque Ports after the River Rother changed course.
ANSWER: **Rye** <AP>

10. Petr Bitsilli discusses the sources of this concept in a 1983 stylistic analysis of a certain author's art. For 10 points each:
[10] Name this concept, which was originally analysed by Ilia Gurliand. Gurliand later recorded this concept in his book of *Reminiscences of* a certain author.
ANSWER: **Chekhov's gun**
[10] The principle of Chekhov's gun is broken in this work, the only play by Chekhov in which a gun is shown but never fired. This play ends with Madame Ranevskaya leaving as offstage axes chop down the title trees.
ANSWER: *The **Cherry Orchard*** [or ***Vishnyovyi sad***]
[10] This other Chekhov play ends with the title character shooting himself off-stage after being challenged by Lvov. The title character's betrothed, Sasha, realises what he is about to do after he picks up his gun onstage.
ANSWER: ***Ivanov*** <AH>

11. The Kronos Quartet commissioned this composer's first string quartet, *Stringsongs*. For 10 points each:
[10] Name this contemporary composer, whose works often focus on the manipulation of the voice, such as on their album *Our Lady of Late*, which features a solo voice in dialogue with the reverberation of a wine glass.
ANSWER: Meredith **Monk**
[10] On the album *Songs of Ascension*, Monk employed a shruti box, used in Indian classical music to produce this kind of sound. This sustained sound is also produced by the chikaari strings of a sitar, and by the over-the-shoulder pipes of a bagpipe.
ANSWER: **drone**
[10] The phrases 'To Los Angeles' and 'To New York' repeat in the last movement of work by this composer written for the Kronos Quartet. This composer also wrote *Music for 18 Musicians* based on an eleven-chord cycle.
ANSWER: Steve **Reich** <AP>

12. The early 1970s saw the formal introduction of a Latin alphabet in this country, replacing both Arabic script and locally developed systems such as Osmanya and Borama. For 10 points each:
[10] Name this country, where the Supreme Revolutionary Council promoted 'Scientific Socialism' and was led by Siad Barre [BAR-ey]. In the 1980s, tens of thousands of members of the Issaq clan in the north of this country were massacred.
ANSWER: **Somalia**
[10] Barre, who ruled Somalia from 1969, was seriously injured in a car crash in this city in 1986. As his rule collapsed in 1990, he was mockingly called the 'mayor of' this city, Somalia's capital.
ANSWER: **Mogadishu**
[10] A major turning point in Siad's time as ruler was the utter failure of this conflict, named for the region of Ethiopia that Somali forces attempted to conquer. The Soviets chose to back Ethiopia over Somalia in this war, providing aid including the airlift of thousands of Cuban troops.
ANSWER: **Ogaden** War <OSC>

13. Solid state refrigeration allows for cooling without the use of refrigerant fluids. Answer some questions about how it works, for 10 points each:
[10] This effect is the presence of heating or cooling at the electrified junction of two different conductors, because the flow of charge also transports heat. This effect is the counterpart to the Seebeck effect and names a type of cooler which uses the effect.
ANSWER: **Peltier** effect
[10] In metals, the magnitude of the Peltier effect differs from the prediction of the Drude [DROO-duh] model because of their large Fermi energy, while in these materials the Drude predictions are broadly accurate. These materials have a small band gap, meaning that there is a small density of electrons and holes which can carry current.
ANSWER: **semiconductor**s
[10] Another method of solid state refrigeration is via a demagnetisation process described by this word. The entropy of a magnetic system is a function of the magnetic field over temperature, so keeping the entropy constant, as implied by this word, means that as the magnetic field decreases, so does the temperature.
ANSWER: **adiabatic** [accept **isentropic**] <LW>

14. Not only was this book banned in Australia, but the book describing its British obscenity trial was also banned. For 10 points each:

[10] Name this book about Oliver Mellors and Constance by D.H. Lawrence, which sparked a landmark trial against Penguin Books when the full unexpurgated edition was published.
ANSWER: *Lady Chatterley's Lover*
[10] This novel was effectively banned in the US after an obscenity trial concerning the protagonist's fantasies about Gerty MacDowell. This novel's protagonist then visits a maternity hospital where Mina Purefoy is giving birth.
ANSWER: *Ulysses*
[10] A campaign by the *Sunday Express* led to a 1928 obscenity trial against Jonathan Cape concerning this book, which follows the life and homosexuality of the upper-class Englishwoman Stephen Gordon.
ANSWER: *The **Well of Loneliness*** <AH>

15. The 5th Earl of Carnarvon may have discovered Tutankhamun's tomb, but he also had a very nice house of his own. For 10 points each:
[10] Name this country house in Hampshire, redesigned by Charles Barry around the time he was working on the Houses of Parliament. This estate is probably best-known for the roles it has played on TV, including as Totleigh Towers in *Jeeves and Wooster*.
ANSWER: **Highclere** Castle
[10] Highclere Castle is also the set of the titular location of this television programme. Set in Yorkshire rather than Hampshire, this show follows the lives of the Earl and Countess of Grantham and their family and servants.
ANSWER: *Downton Abbey*
[10] Hugh Bonneville, who played the Earl of Grantham in *Downton Abbey*, also starred as Head of Deliverance Ian Fletcher in a series about the run-up to this event. In a running joke, nearly all the characters are unable to distinguish between this event's 'legacy' and 'sustainability'.
ANSWER: **2012 London Olympics** [accept **2012 Olympics**; accept **London Olympics**; prompt on Olympics] <ELM>

16. Ethan Iverson claimed that the song 'Fleurette Africaine' on this album inspired his creation of the trio Bad Plus. For 10 points each:
[10] Name this jazz album. The age difference between the musicians on this album led to criticism of their differing styles conflicting in songs like 'Very Special' and 'Wig Wise'.
ANSWER: *Money Jungle*
[10] This pianist was the oldest of the three men to record *Money Jungle* and composed most of the songs on the album. This musician also composed the song 'Black, Brown and Beige'.
ANSWER: Duke **Ellington**
[10] Max Roach played this instrument on *Money Jungle*. Buddy Rich and Gene Krupa also played this percussion instrument, which is sometimes played with brushes in cool jazz.
ANSWER: **drums** <GDC>

17. As a classical scholar, this poet published a five-volume edition of Manilius' *Astronomica* between 1903 and 1930. For 10 points each:
[10] Name this poet, who wrote that the same gale that blows today used to blow on a Roman soldier by the city of Uricon in their poem 'On Wenlock Edge'.
ANSWER: Alfred Edward **Housman**

[10] Housman used classical motifs to describe this figure, who dies with an 'early-laurelled head'. This figure is 'chaired [...] through the market-place' after winning a race in Housman's poem about his 'dying young'.
ANSWER: the **athlete** [accept *To an **Athlete** Dying Young*; prompt on <u>runner</u>]
[10] Housman satirised the repetitive style of Ancient Greek drama in this parodic poem. The Chorus tells Alcmaeon to 'be, on the one hand, good, and do not, on the other hand, be bad' in this poem.
ANSWER: *__Fragment of a Greek Tragedy__* <AH>

18. Al-Bakri described the tradition of rulers of this empire being succeeded by their sister's sons, and the refusal of its king Tunka Manin to convert to Islam is said to have prompted an invasion by Abu Bakr ibn Umar. For 10 points each:
[10] Name this early West African empire that declined after a sack by the Almoravids.
ANSWER: **Ghana** [accept **Wagadou**]
[10] This city in present-day Mauretania is believed to have been the capital of the Ghana empire. It was described as actually consisting of two towns 10 kilometers apart, one of which was inhabited by Muslims and contained twelve mosques.
ANSWER: **Koumbi-Saleh**
[10] Koumbi-Saleh was a hub of the trade in salt and this other commodity, which the introduction of the camel made it possible to transport more easily across the Sahara. The Wangara people were known as experts in the procurement of this precious metal.
ANSWER: **gold** <CJ>

19. The D.SCAM.1 [D.Scam.1] gene in *Drosophila melanogaster* can generate 38,000 protein isoforms by alternative splicing of this molecule, giving every neuron in the fly a unique signature of receptors. For 10 points each:
[10] Name this macromolecule, whose ribosomal and transfer forms are universally spliced, while its messenger form is only spliced in eukaryotes. This molecule serves as the genetic material in some viruses.
ANSWER: **RNA**
[10] These sequences range in length from 30 base pairs to a 3.6-megabase example that takes more than a day to transcribe. RNA splicing may be defined as the precise removal of these sequences from the primary transcript.
ANSWER: **intron**s
[10] Spliceosomal splicing is controlled by these RNA-protein complexes, of which U2 and U6 are most critical for catalysis.
ANSWER: **snRNPs** ['snurps'] [or **small nuclear ribonucleoproteins**] <ML>

20. This thinker's claim that 'lightening steers the universe' is a key subject of discussion in a 1966 debate that Sallis and Maly described as being between 'logical' and cosmological readings of this philosopher. For 10 points each:
[10] Name this philosopher, who developed the 'unity of opposites'. Diogenes Laertius referred to this thinker as the 'weeping philosopher'.
ANSWER: **Heraclitus**
[10] This Greek term titles an early lecture by Martin Heidegger on Heraclitus, who claimed that this concept is 'common, though most people live as if they had their own private understanding' of it.
ANSWER: **logos**
[10] Heraclitus claimed that 'for souls it is death to become water', a substance he often contrasted with this other, hot substance, which he believed to be the fundamental element of the universe.

ANSWER: **fire** <GDC>