

OOT 2017  
Packet 08 - Editors 2

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Questions also written by Eric Mukherjee, Thomas De Bock, Isaac Brown.

The last tossup in the last packet should have been: **Polymers**

Tossups

1. **The first major study of Cepheid Variables by Henrietta Swan Leavitt was done on variable stars in these astronomical bodies. Though once classified as irregular, these members of the Local Group still retain a central bar structure, suggesting they were once barred spirals. The supernova (\*) SN1987A occurred in the Tarantula Nebula, which is located in one of these astronomical bodies. A stream of gas named for these galaxies was discovered in the 1960s, and intersects the south pole of the Milky Way, around which these galaxies orbit. For 10 points, name these two galaxies in the Southern skies named for a Portuguese explorer.**

ANSWER: **Magellanic Clouds**

2. **One poem states that this material can “man’s imperial race ensnare.” Plume tries to convince the antagonist of one work to relinquish an object made of this material, and in *Clarissa*, as the title character is dying, Robert Lovelace demands an item of hers made from it. A team of (\*) sylphs aid Betty in handling this substance, one piece of which later becomes “A sudden star... shot through liquid air.” The myth of Nisus is cited when a different Clarissa provides the Baron with the means of acquiring some of this material, which Ariel tries and fails to protect. For 10 points, name this substance, of which the title object of Alexander Pope’s *The Rape of the Lock* is composed.**

ANSWER: human **hair**

3. **François Dell wrote an article on singing in the Berber language because of its unusual constraints on these entities. In English, the /p/ in ‘happy’ can be described as being ‘ambi-’ the adjectival form of these entities. In IPA [I-P-A], a segment acting as one of these entities has a small vertical line below it. The (\*) ‘weight’ of one of these entities is determined by the number of ‘moras’ in its ‘rhyme,’ which consists of a coda and a sonority peak, or ‘nucleus.’ The Linear B script and Japanese kana use individual symbols to represent these entities. For 10 points, name this phonological unit larger than the phoneme, the bearer of prosodic features like tone and stress.**

ANSWER: **syllable**

4. **This work’s depiction of Christ enthroned shows two green orbs containing mazes next to each of his feet. Pink, black, blue, and green feature in the wings of angels surrounding the Virgin Mary in this work in which an angel holding a book floats among the words “erat autem hora tertia”. This work features Roman Numerals added in the 17<sup>th</sup> century by (\*) Oliver Plunkett. This work’s “carpet page” shows an eight-noded cross and illuminated “arcades” enclose the canon lists on the first eight pages of this work. Likely created around A.D. 800 and housed at Trinity College, Dublin, for 10 points, name this highly complex illuminated Gospel book.**

ANSWER: **Book of Kells** [accept **Book of Columba**]

5. **One member of this group wrote a satirical preface for a play attacking it, “The Philosophers,” which landed him in prison. The most prolific member of this group was Louis de Jaucourt, whose contributions amounted to 25% of the total; Franz A. Kafker has warned against viewing all its members as political radicals. Some works by this group were falsely said to be printed at (\*) Neufchatel in Switzerland, and its principles were set out in the “Preliminary Discourse.” Led initially by Jean Le Rond d’Alembert and then by Denis Diderot, this is, for 10 points, what group of French Enlightenment thinkers who collaborated on a namesake reference work?**

ANSWER: Encyclopédistes [accept answers that indicate “contributors to the *Encyclopédie*”]

6. **Two of these people using the surfboat *Fox* became the first to row across the Atlantic Ocean in 1896 and setting a still standing record for a pair rowing across the Atlantic. The Chapel in the Hills was built by these people near Rapid City, and the experience of this group in the Dakotas was described in *Giants in the Earth*. (\*) *America Not Discovered by Columbus* was written by one of these people who are sometimes known as sloopers, who convinced his home state of Wisconsin to recognise Leif Erikson Day. For 10 points, members of what immigrant community celebrate Cleng Peerson’s journey on the Restauration to New York from Stavanger.**

ANSWER: Norwegian-Americans

7. **One author with this surname wrote about Dr. Petworth’s romantic intrigues in the fictional country of Slaka in the novel *Rates of Exchange*. In another novel by that person with this surname, charges of “gross moral ineptitude” are levelled against Watermouth-based lecturer and “theoretician of sociability”, Howard Kirk. In a short story by an author with this name, (\*) Margot misses a rare moment of sunlight on Venus and in a dystopian novel by that author of “All Summer in a Day”, Guy Montag burns books in his capacity as a “fireman”. For 10 points, give this surname shared by Malcolm, author of *The History Man*, and Ray, author of *Fahrenheit 451*.**

ANSWER: Bradbury

8. **The most well characterised cause of progeria is due to abnormal processing of a structural protein in this organelle. Because *RCC1* is only found inside of it, the *Ran-GTP* cycle allows transport into and out of this organelle. This organelle fluoresces blue when stained with Hoechst stains or (\*) DAPI. Cajal [ca-HAL] bodies are found in this organelle. A small densely staining region of this organelle is the site of ribosome production. This organelle contains a double membrane which is continuous with the rough endoplasmic reticulum and it is the site of mRNA transcription. For 10 points, name this organelle which houses a eukaryotic cell’s DNA.**

ANSWER: Nucleus [accept any substructure within the nucleus such as nuclear envelope or nucleolus]

9. **One author praised this city’s second-story eateries, and the play *El-Rei Seleuco* [Se-loo-ko] may have caused its author’s exile from it. The line “The myth is the nothing that is all” comes from the poem *Ulysses*, honoring Odysseus’s supposed foundation of this city. A coffeehouse in this city’s Chiado [See-a-tho] district was a favorite of the modernist group Orpheus’s Generation, which included the author of “Tobacco Shop” and “Message.” In one novel, a fictional character returns from (\*) Brazil to this city after the death of his creator; that novel is *The Year of the Death of Ricardo Reis*. For 10 points, name this setting of *The Book of Disquiet*, home to Fernando Pessoa and José Saramago.**

ANSWER: Lisbon [or Lisboa]

10. **The Mehler kernel is the propagator of the hamiltonian of this system, deviations from which are accounted for by the Morse potential. The wavefunctions of this system are formed by multiplying a Hermite polynomial with a Gaussian. The (\*) Einstein model of solids treats each atom as a three dimensional example of this system which has a zero point energy equal to one half  $\hbar \omega$ . This system is characterised by a restoring force proportional to the displacement from equilibrium according to Hooke’s law. For 10 points, sinusoidal motion is characteristic of the simple form of what system exemplified by pendulums and springs?**

ANSWER: Quantum / Simple Harmonic Oscillator

11. **In the *Iliad*, this man drives a chariot along with Pandarus against Diomedes, but is almost slain after a rock shatters his hip. Divine aid comes to this hero from Apollo and Poseidon, who prophesies that this hero will be Troy’s king after Priam. This man, according to later stories, attempted to found cities on Crete and in Epirus before Helenus tells him to go to Ausonia. This man hosts (\*) funeral games for his father at Drepanum after fleeing a city whose temple depicts scenes from Troy, a city ruled by a queen also**

known as Elissa. The lover of Dido, and son of Anchises, for 10 points, name this namesake of Virgil's epic poem.

ANSWER: Aeneas

12. The rapper Smokey organized the Citizen's Broom movement in this country. This country fought its northern neighbour over the Agacher Strip in a conflict often dubbed the "Christmas War." One president of this country known as "Africa's Che Guevara" wrote its national anthem "Une Seule Nuite." That man was one of two presidents of this country who were in the jazz band *Tout-à-Coup Jazz*; the vocalist in that group (\*) Blaise Compaore killed the guitarist Thomas Sankara in a 1987 coup, three years after Sankara had changed the name of this country to a name meaning "land of upright men". For 10 points, Compaore was overthrown in a 2015 coup in which country formerly known as Upper Volta.

ANSWER: Burkina Faso (accept Upper Volta before mention)

13. In one novel, a person who later takes this profession finds and restores the grave of his Civil War veteran grandfather along with his pacifist father, both of whom hold this profession. That character with this profession is John Ames. In *To Kill a Mockingbird*, one person with this profession saves seats for the Finch children at Tom Robinson's trial. People of this occupation in the works of (\*) Nathaniel Hawthorne include the Mr. Hooper and Arthur Dimmesdale, who admits to sleeping with Hester Prynne shortly after giving his most acclaimed sermon. For 10 points, name this religious office featured in *Gilead*, *The Scarlet Letter*, and a short story about a titular "Black Veil."

ANSWER: minister or pastor [accept: "clergyman" or "reverend"; prompt on "priest" or "vicarage"; do not accept roles within a hierarchy such as "bishop" or "deacon"]

14. Guidelines for this observance are detailed in Surah 24:32–33. One hadith of Imran ibn Husain is a response to Umar's prohibition of the mut'ah form of this practice carried out by Twelver Shias. *Mahr* cannot do this and it is Sunnah to follow this by a walima, a sort of banquet. The *mahr* payment is made before this can happen and is a permanent transfer of property. It can be ended by (\*) *khula* or *talaq*, which may be invoked by saying *talaq* three times. For 10 points, name this practice which a man can carry out four times, provided he treats each women involved therein equally.

ANSWER: Nikah [accept "Islamic Marriage"]

15. The earliest defined Clovis fire-pits are found at the Naco and Lehrner mammoth kill sites in this state. One archaeological site in this state was formerly owned by the actress Acquafredda and the Sinagua people built this state's poorly named Montezuma Castle. A characteristic red-on-buff style of pottery was produced in a city in this state, Snaketown. Father (\*) Kino described an multi-storey adobe structure in this state with internal and external walls; that site is Casa Grande. For 10 points, name this state where Jack Swilling used the ancient canals of the Hohokam to bring to life a city from archaeological remains, dubbed "Phoenix."

ANSWER: Arizona

16. A short sonatine by this composer parodies a Muzio Clementi sonatina. *Tenture de cabinet préfectoral* and *Sons Industriel* are examples of this composer's "Furniture music." Markings in a suite of this composer's piano pieces include "bury the sound" and (\*) "in a manner achieving absolutely nothing". One piano piece by this composer is marked *Lent et Dououreux* and alternates gently between G and D major seventh chords. This composer included a march and trio based on his earlier cabaret songs in his *Three Pieces in the Form of a Pear*. For 10 points, name this mentor of Les Six, the composer of the *Gnossiennes* and *Gymnopédies*.

ANSWER: Erik Satie

17. The village of Kimmeridge on this coast is notable for being home to Britain's oldest working oil pump. A 17<sup>th</sup> century euphemism for hanging notes the rope-making industry in one town on this coast: "stabbed with a Bridport dagger". The MSC Napoli was controversially beached in January 2007 at

**Branscombe, part of this area.** (\*) The fossiliferous nature of this coast was brought to national fame by the work of Mary Anning around Lyme Regis. Stretching from Exmouth to Studland Bay, for 10 points, name this south coast World Heritage Site named for the middle period of the Mesozoic.

ANSWER: The Jurassic Coast (prompt on south coast; prompt on Dorset coast)

18. **The Otto cycle is comprised of two isentropic processes and two with this quantity held constant. The Clapeyron equation states that the gradient of the coexistence curve for two states is proportional to one over the difference in this quantity in the two states. This quantity is the rate of change of Gibbs Free Energy with respect to (\*) pressure.** This natural variable of Internal Energy and Helmholtz Free Energy doesn't change during isochoric processes. According to Boyle's law, this quantity is inversely proportional to pressure. For 10 points, name this measure of the space occupied by an object.

ANSWER: Volume

19. **The land of Oogaboo is found in the northwest corner of this country, whose subcultures include the Tottenhots and Hammerheads. Boboland and the Nome Kingdom are among the neighbours of this country, whose capital is bordered by a field of dangerous flowers ruled by field mice. East and West are sometimes reversed in maps of this country. The practice of wearing a special set of (\*) tinted glasses inside this country's capital was discontinued upon the death of its most famous ruler, who also founded that capital. You might find Gillikin and Munchkin counties in, for 10 points, what country surrounded by a deadly desert, whose capital is the Emerald City?**

ANSWER: Oz

20. **One artist from this country illustrated Gilbert White's *The Natural History and Antiquities of Selborne* and recorded the travels of his patron Sir Richard Kaye. Along with Mary Moser, a history painter born in this country was one of the two female founding members of the British Royal Academy of Arts. That artist of *Cornelia, Mother of the Gracchi* was (\*) Angelica Kauffman. Another artist from this country showed a tiny bearded fairy on a lead in *Titania and Bottom* as well as showing a sleeping woman being sat on by an incubus in *The Nightmare*.** For 10 points, name this country of origin of Samuel Hieronymus Grimm and Henry Fuseli.

ANSWER: Switzerland

#### Tiebreaker

21. One character in this play threatens to torture a man for pretending to be Heracles. Two other characters trade clothes several times after one is invited to a feast with dancing girls, and one of those characters engages in a mock-debate with some animals, and poetic competition in this work sees one character place lines about the *Argo*, Persuasion, and a mace into a scale, having earlier been repeatedly interrupted by "lost his little flask of oil." In this play, Xanthias accompanies Dionysus into Hades to bring Euripides back to Athens. For 10 points, name this Ancient Greek play, in which the title creatures croak "Brekekekex koax koax," a comedy by Aristophanes.

ANSWER: *The Frogs* [or *Batrachoi*]

#### Bonuses

1. Olavo Bilac described this language as "unknown and obscure,/ Tuba of high blare, delicate lyre,/ That holds the frill and the hiss of the tempest/ And the singing of the *saudade* [sow-dah-de] and of the tenderness!" For 10 points each:

[10] Name this language, used by novelists like Machado de Assis and Jorge Amado.

ANSWER: Brazilian Portuguese [or português do Brasil or português brasileiro]

[10] In this Amado novel, Nacib Saad owns a bar and hires the title migrant woman as a cook. Their romance is set against the background of the struggle to modernize Brazilian society, in spite of the resistance of cacao planters like the Bastos clan.

ANSWER: **Gabriela, Clove and Cinnamon** [accept **Gabriela, cravo e canela**]

[10] Nacib Saad comes from this country, whose real-life writers include the poet of *The Static and the Dynamic*, Adonis [Ah-du-nees].

ANSWER: **Syrian Arab Republic** [or Jumhūrīyah al-‘Arabīyah as-**Sūrīyah**]

2. Despite his 1950 work *True and False Reform in the Church* being banned by Pius XII, this priest and theologian was chosen to aid the preparatory committee for the Second Vatican Council. For 10 points each:

[10] Name this French Dominican, created a cardinal in 1994, who is often seen as the chief theological influence on Vatican II.

ANSWER: Yves Marie-Joseph **Congar**

[10] Congar was brought back into the fold by this successor of Pius XII and convener of Vatican II. This Pope so little expected to be elected that he turned up to the 1958 conclave on a return train ticket.

ANSWER: Pope Saint **John XXIII** OR Angelo Giuseppe Roncalli

[10] Another theologian present at Vatican II was this German who went off liberal theology after the Council. Forty years later, he became, then un-became, Pope under the name “Benedict XVI”.

ANSWER: Joseph Aloisius **Ratzinger**

3. The English consul Joseph Smith popularised this artist in Britain. For 10 points each:

[10] Name this artist whose works George III bought off Joseph Smith and now decorate the Print Room at Windsor. This artist painted the Knights of Bath processing out of Westminster Abbey.

ANSWER: **Canaletto** (accept **Giovanni Antonio Canal**)

[10] Canaletto painted this provincial building several times on both his journeys around the UK. One painting of this building’s South Facade in front of this building’s moat is now in the Thyssen-Bornemisza in Madrid.

ANSWER: **Warwick Castle**

[10] Canaletto’s English work is better known for portrayals of life on this river crossed by Westminster Bridge, during such events as the Pageant on Lord Mayor’s day.

ANSWER: **Thames**

4. Answer some questions about electronic spectroscopy of transition metal complexes. For 10 points:

[10] These diagrams depict the energies of various states relative to the ground state with both axes normalised with respect to the Racah B parameter. Unlike Orgel diagrams, these diagrams also display states with different spin multiplicities to the ground state.

ANSWER: **Tanabe-Sugano** diagrams

[10] The ground electronic state of a complex can be identified using these rules, the first of which states that the ground state has the maximum possible multiplicity.

ANSWER: **Hund**’s rules

[10] Bands corresponding to d 9 complexes will often be asymmetric due to this effect in which molecules with degenerate ground states can lower their symmetry to form a ground state with a lower energy.

ANSWER: **Jahn-Teller** Distortion [Accept **JT** effect]

5. Two priestesses named Marie Laveau popularised voodoo in this city, which is also home to the Metairie Cemetery, built on the grounds of an old racetrack. For 10 points each:

[10] Name this Louisiana city that hosts a major Mardi Gras festival every year

ANSWER: **New Orleans**

[10] Three major cemeteries in New Orleans are named for this person. The cemeteries are known as, this person #1, this person #2, and this person #3. Homer Plessy is buried in #1, where Nicolas Cage has bought a pyramid shaped tomb where he intends to spend his post-life days.

ANSWER: **St Louis**

[10] New Orleans lies just south of this saltwater lake, named for Louis XIV’s Comptroller-General of Finances.

ANSWER: Lake **Pontchartrain**

6. For 10 points each answer the following about the career of Fritz Augustus Heinze:

[10] Heinze along with Marcus Daly and William A. Clark was one of the three “Copper Kings” of this state. Daly attempted to found a city called “copperopolis” here but settled on the name Anaconda instead.

ANSWER: **Montana**

[10] Heinze and his brother Otto Heinze, together with Charles W. Morse were significantly responsible for creating the financial “panic” of this year with their failed corner on the United Copper Company. Its effect was assuaged through major personal investment by J. P. Morgan.

ANSWER: **1907**

[10] After the collapse of the United Copper Company, Heinze and his brother Arthur tried to hide the books from the Secret Service. One trunk of ledgers was caught headed to this city, home to the Golden square mile, whose financial centre based on St. James Street was one of the largest in the British Empire.

ANSWER: **Montréal** (the trunk was caught when the railway baggageman refused to take it because it weighed 380 lbs.

7. This work is comprised of three episodes set in the title city, the first in December, the second in May, the third in August. For 10 points each:

[10] Name this book, whose first part is a tour of a city in wartime told through the second person, and whose last part follows the lives and deaths of the brothers Mikhail and Vladamir Kozeltsov.

ANSWER: *The **Sebastopol Sketches*** [or ***Sebastopol Stories*** or ***Sevastopolskiye rasskazy*** or ***Sevastopol***]

[10] The *Sebastopol Sketches* were written by this second lieutenant in the Russian artillery in the Crimean War, who would later become famous for novels like *War and Peace*.

ANSWER: Leo Nikolayevich **Tolstoy** [or Leo **Tolstoy**]

[10] In *War and Peace*, Pierre joins a Russian artillery crew to observe this battle, a bloody draw with the French that Tolstoy casts as a moral victory, because Russia took a stand against the invaders.

ANSWER: Battle of **Borodino** [accept Battle of the **Moskva** River]

8. Along with listing himself as the ninth greatest composer, this associate of Grieg and Delius eschewed Italian musical notation and invested in music-making machines. For 10 points each:

[10] Name this composer who worked near-entirely in short pieces and who is probably best-known for his arrangement of “Country Gardens”.

ANSWER: Percy Aldridge **Grainger**

[10] Originally written for massed pianos and string orchestra, one Grainger’s most popular pieces is a 1911 miniature entitled for this composer of *The Messiah* and *Music for the Royal Fireworks* “in the Strand”.

ANSWER: Georg Friedrich **Handel**

[10] One of Grainger’s few pieces to employ original melodies is this 1911 piece originally for piano. It was written evoke the namesake Australian countryside in the style of Stephen Foster.

ANSWER: **Colonial Song**

9. This band is noted for its technical proficiency, exemplified by instrumental tracks such as “La Villa Strangiato” and “YYZ”. For 10 points each:

[10] Name this progressive rock band whose long time members included Geddy Lee, Alex Lifeson and Neil Peart. Their album *Moving Pictures* includes the hits, “Limelight” and “Tom Sawyer”.

ANSWER: **Rush**

[10] Rush first came to prominence with this 1976 album, the namesake of the title 20-minute track. That track is named after the dystopian year in which it is set and attracted criticism for its lyrics inspired by Ayn Rand.

ANSWER: **2112** (“twenty-one-twelve”)

[10] This American band opened for Rush in 1991 and 1992. Best known for songs like “Tommy the Cat” and “Jerry was a Race Car Driver”, this alternative band is fronted by bass player and singer Les Claypool.

ANSWER: **Primus**

10. This book argues that European settlers created “portmanteau biota”, and argues that deaths due to diseases like smallpox were more important than military victories in facilitating the settlement of North America. For 10 points each:

[10] Name this book by Alfred Crosby which seeks to explain how biological processes helped to facilitate the spread of colonialism in the “neo-European” temperate zones of the globe.

ANSWER: **Ecological Imperialism: The Biological Expansion of Europe, 900-1900**

[10] Crosby also coined this term to describe the widespread transfer of flora and fauna between the Old and New Worlds. This long-term process is why we have tomatoes and potatoes in the Old World and the tribes of the New World gained horses.

ANSWER: **Columbian exchange**

[10] The most significant farm animal to come from the New World to the Old World is this bird known as *hindi* in Turkish because of its resemblance to the Guinea fowl, rather than because it came from the Indies.

ANSWER: **turkey** (accept **Meleagris**)

11. It's time to answer some questions on applied science, so step for a moment into the world of nozzles in jet engines. For 10 points each:

[10] Nozzles are used to accelerate the flow of a fluid through a drop in pressure. A nozzle is said to operate at its design point if the throat conditions are critical and the downstream flow has this property.

ANSWER: it is **supersonic** (accept descriptions mentioning the **flow** being **faster than the speed of sound**.)

Accept but DO NOT reveal **Mach number higher than 1** or other word forms)

[10] As the outlet flow must be supersonic and the inlet flow must be subsonic, the throat flow must have this quantity equal to 1. This quantity is the ratio between velocity and the local speed of sound.

ANSWER: **Mach** number

[10] A nozzle named for this scientist has a convergent inlet and a divergent outlet. This scientist also names an effect in which fluid pressure is reduced due to flow through a choke in a pipe.

ANSWER: Giovanni **Venturi**

12. Greek colonies in the Western Mediterranean were quite often ignored by mainland Greek historians. For 10 points each:

[10] Name this most powerful of all the Greek colonies. This Sicilian colony's tyrant Hiero I was lauded by Pindar for his chariot racing, and defeated Etruscans and Carthaginians at Cumae.

ANSWER: **Syracuse**

[10] This early 4th-century Syracusan tyrant also fought the Carthaginians, and according to Diogenes Laertius, he once sold Plato into slavery. An old limestone quarry in the city is called this man's “Ear”.

ANSWER: **Dionysius I** (accept **the Elder**)

[10] Syracuse was a foundation of this mainland Greek city, which also founded Corcyra. When Syracuse appealed for help, this city sent out Timoleon to restore good government.

ANSWER: **Corinth**

13. Otto Loewi originally called this compound “vagusstoff” because it is released from the vagus nerve, where it slows the heart. For 10 points each:

[10] Name this neurotransmitter also released at the neuromuscular junction, where it causes skeletal muscle to contract.

ANSWER: **Acetylcholine** [or **ACh**]

[10] Acetylcholine receptors come in two broad classes: muscarinic, and those named for the fact they selectively bind this compound. This compound is the primary addictive component of tobacco smoke.

ANSWER: **Nicotine** [accept **Nicotinic**]

[10] The alpha toxin of these bad-ass animals blocks the nicotinic acetylcholine receptor, and their other toxins block pretty much every other important ion channel in nerve and muscle. These toxins - which are delivered through a modified radula - are thus appealing pharmacological tools.

ANSWER: **Cone snails** [or **Cone shells**, accept **Conus spp.** or **Conidae**, prompt on **Sea snails** or **Snails** alone - also tell anyone with an interest in biology to go and look them up, they're super cool]

14. Answer some questions about the career of Jang Yeong-sil, the leading scientist and inventor of the Joseon dynasty. For 10 points each.

[10] Jang improved on the pioneering efforts of Choe Yun-ui to produce the *Gabinja*, an improved version of this device. Another one of these devices was created by Jang's rough contemporary, Johann Gutenberg.

ANSWER: **printing press**

[10] Another of Jang's inventions was the Cheugugi, a device for measuring this phenomenon in *poon*, units of roughly an eighth of an inch.

ANSWER: **rain** [accept **precipitation** or other equivalents]

[10] Jang fell out of royal favor when a sedan chair he designed broke while transporting this monarch, his patron, the creator of the Hall of Worthies. The original impetus for the Cheugugi had come from this man's son and heir, Munjong.

ANSWER: **Sejong** the Great

15. The only type of these objects to form in the mesosphere are the noctilucent type. For 10 points each:

[10] Name these objects which may be stratiform, cumuliform or cirriform.

ANSWER: **Clouds**

[10] These clouds which form very high in the atmosphere receive sunlight from below the horizon and reflect it back to earth creating their characteristic iridescence and meaning they are only seen at dawn or dusk. They are a subtype of polar stratospheric clouds.

ANSWER: **Nacreous** clouds

[10] Type I polar stratospheric clouds are implicated in the formation of these things. This occurs because they disrupt the recycling of compounds such as chlorine nitrate, which acts as a reservoir in the stratospheric cycling of chlorine.

ANSWER: **Holes in the ozone layer** [accept equivalents]

16. When Levee fails to secure a recording contract with Sturdyvant in this play, he angrily stabs the bandleader Toledo to death. For ten points each,

[10] Name this play, set in a Chicago recording studio, in which Sylvester's stutter mars the intro to the title song.

ANSWER: **Ma Rainey's Black Bottom**

[10] August Wilson's *Ma Rainey's Black Bottom* is part of a cycle of ten plays named for this city, chronicling African-American life in the twentieth century. *Ma Rainey's Black Bottom* is the only one of the cycle not set in this city.

ANSWER: **Pittsburgh**, Pennsylvania [accept **Pittsburgh** Cycle]

[10] Next in the Cycle is this winner of the 1990 Pulitzer Prize for Drama, set in 1936, in which Boy Willie and Berniece fight over selling a family heirloom. It ends with Berniece playing music to assuage Sutter's ghost.

ANSWER: *The **Piano Lesson***

17. A 2014 exhibition at the Musée Rodin juxtaposed Rodin sculptures with the work of this photographer, who claimed "I see things like they were sculptures. It depends on how that form exists within the space." For 10 points each:

[10] Name this late twentieth-century American photographer, whose stylized black-and-white images capture celebrities, flowers, and explicit scenes of BDSM.

ANSWER: Robert **Mapplethorpe**

[10] The most expensive Mapplethorpe photograph ever sold was a portrait of this pop artist of *Silver Car Crash* (*Double Disaster*). Like Mapplethorpe, this man experimented with the use of urine in "art" at his studio, the Factory.

ANSWER: Andy **Warhol** [or Andrew **Warhola**]

[10] That portrait was made using a plate of this precious metal. Photographic plates of this metal are considered more durable than gold, and, when treated with the Na<sub>2</sub> method, do not cause grain.



ANSWER: **Platinum** print [or **platinotype**]

18. The psychological anthropologist Tanya Luhrmann studied how some members of this group have “conversations” with God on a daily basis. For 10 points each,

[10] Name this religious denomination, the subject of Luhrmann’s *When God Talks Back*.

ANSWER: **evangelical** Christianity [accept **charismatic** Christianity; prompt on “Protestantism” or “Christianity”; anti-prompt on “Pentecostalism,” I guess]

[10] Although often associated with Pentecostal Christianity, anthropologist G. J. Jennings identified variants of this practice across the world, including Tibetan monks who recited Shakespeare and profanities during ritual dances.

ANSWER: **speaking in tongues** [accept **glossolalia**; accept **xenoglossia**]

[10] Sociologist Sarah Diefendorf studied how evangelicals vowing abstinence until marriage redefined this concept. Various theorists have identified a “Hyper-” form of this quality, or claimed that it is “in crisis.”

ANSWER: **masculinity**

19. John Haugeland has described this concept as “a way of life shared by the members of some community” and compared it to a language within a community. For 10 points each:

[10] Name this concept, “the formally existential totality of [whose] ontological structural whole” can be defined in terms of *thrownness*, *projection* and *fallen-ness*.

ANSWER: **Dasein** [da-ZEIN] [prompt on “existence,” “being there,” or “presence”]

[10] Dasein is the primary subject of *Being and Time* by this German philosopher.

ANSWER: Martin **Heidegger**

[10] *Being and Time* was dedicated to this predecessor of Heidegger at Freiburg whose “transcendental phenomenology” and concept of epoché provided the model around which many of Heidegger’s concepts were defined.

ANSWER: Edmund **Husserl**

20. By a conservative estimate, one-fifth of all deaths in early modern England was due to infectious disease. Sometimes people wrote about this. For 10 points each,

[10] This English poet of “To Penshurst” wrote “On My First Daughter” and “On My First Sonne” after his daughter and son died in different plague outbreaks.

ANSWER: Benjamin “Ben” **Jonson**

[10] Though better known for such plays as *The Roaring Girl* and *Westward Ho* (co-written with John Webster), this man made good money producing plague pamphlets like *The Seven Deadly Sins of London*.

ANSWER: Thomas **Dekker**

[10] \*NOTE TO MODERATOR: please emphasize the word “Foe” in the following question\* It is disputed whether this man’s *A Journal of the Plague Year* should be considered a novel or not; his sources likely included the actual plague journals of his uncle, Henry Foe.

ANSWER: Daniel **Defoe**