

OOT 2017

Packet 02 - Old Bookbinders

Edited by Oliver Clarke, George Corfield, Charlie Clegg, Daoud Jackson, Chris Stern and Spencer Weinreich.
Questions also written by Eric Mukherjee, Thomas De Bock, Isaac Brown.

The last tossup in the last packet should have been: Peru

Tossups

1. **In one myth of these people, Cavillace [Cah-vill-a-kay] turns herself into a stone after giving birth, having been impregnated by a fruit fashioned from the sperm of a god. These people believed that the cosmos was divided into three spatial-temporal realms called *pacha*. In one myth of these people, a male god whose name literally means (*) “sea-foam” comes out of a lake, creates celestial objects, makes Allcavica king and then goes back. In another myth of these people two brothers build a temple to the sun god, their father, in the location where a golden staff went into the earth. For 10 points, name these people who worshiped Viracocha and Inti in Andean temples.**

ANSWER: Inca

2. **The Levi-Civita symbol, relativistic angular momentum tensor and four momentum operators combine to form a pseudovector named for this scientist and Lubanski. This scientist also names a set of objects which anti-commute to twice the kronecker delta times the identity and perform rotations on a Bloch sphere. This person’s namesake effect referred to the tendency of laboratory equipment to break in his presence. Those (*) matrices form a basis in SU2. A principle named for this man states that the total wavefunction for two identical fermions must be antisymmetric with respect to exchange. For 10 points, name this Austrian scientist who said that two electrons can’t be in the same quantum state in his exclusion principle.**

ANSWER: Wolfgang Pauli [accept Pauli-Lubanski pseudovector before “this scientist”]

3. **Handel’s Opus 4 and Opus 7 were collections of concertos for this instrument - the former were divided into those to be played with biblical oratorios and those to be played with *Alexander’s Feast*. Another concerto for this instrument by Handel takes its nickname from the (*) birdsong-like quality of its second movement. A piece for this instrument opens its Adagio with a lower mordent on A that is repeated in lower octaves in successive bars, each time followed by descending notes that invert on C sharp into a long D. For 10 points, César Franck wrote a set of six solo pieces for what keyboard instrument for which Bach composed a Toccata and Fugue in D minor?**

ANSWER: Pipe organ

4. **Grandpa Boris explains the origins of this holiday in one episode of *Rugrats*, while the Canadian band Barenaked Ladies released a 2005 LP of songs celebrating it. Kyle Broflovski sings a song about the loneliness of celebrating this holiday. In an episode about this holiday, one character says “my favorite part was when *Superman flew all the Jews out of Egypt*” while dressed as (*) Father Christmas as Ross repeats “there were these people called the Maccabees” trying to explain this holiday to his son Ben, while dressed as the “holiday armadillo.” For 10 points, name this holiday, which titles a novelty song in which Adam Sandler sings “David Lee Roth lights the menorah.”**

ANSWER: Hanukkah [accept Festival of Lights or Feast of Dedication]

5. **Late in this work, Adam undergoes facial scarring in solidarity with his new wife, whom he met while a missionary in Africa with Samuel and Corrine. Sofia says “Hell no!” to a job offer as a maid before punching the mayor, just after fighting with Squeak, her husband (*) Harpo’s new lover; Harpo had been advised to beat Sofia by the main character of this novel, herself abused by her father Alphonso. It is revealed that Mister has been**

hiding Nettie's letters to that main character, who eventually leaves him for the jazz and blues singer Shug Avery. For 10 points, name this novel centering on Celie, the most famous work of Alice Walker.

ANSWER: The Color Purple

6. One type of this entity known as zero-capacitor makes use of the floating body effect. The generation of charge wells underlies the workings of first one of these entities, the Williams tube. Scalability and power requirement concerns have driven the development of spin-transfer torque and thermal-assisted switching approaches to constructing the (*) magnetoresistive form of this entity. The two main types of this entity use either bistable flip-flop circuitry or periodically refreshed transistor-capacitor pairs, those are its static and dynamic forms. Contrasted with a read-only counterpart, for 10 points name this form of volatile storage which can be read in any order.

ANSWER: Random Access Memory [prompt on memory]

7. This author wrote a play in which the police chief Skouratov tries to convince the protagonist to denounce his accomplices in a plot to throw a bomb at the Grand Duke's carriage. The title character of another of this author's plays realizes that "men die, and they are not happy" following the death of his sister, Drusilla. The narrator of a novel by this author of *The (*) Just Assassins* and *Caligula* is a lawyer turned "judge-penitent" who we meet at the Mexico-City Bar in Amsterdam. Jean-Baptiste Clamence and Bernard Rieux, a doctor who fights the outbreak of disease in Oran, are, for 10 points, characters created by which author of *The Fall* and *The Plague*?

ANSWER: Albert Camus

8. One poem titled for this figure is set "Where the slow river/ meets the tide" and describes how "the gold day-lily outspreads and rests" Another poet described how her lover "holds her helpless breast upon his breast" and how a movement of this woman "engenders there / The broken wall, the burning roof and tower." The same poet wonders how can her "body, laid in that (*) white rush/But feel the strange heart beating where it lies." In another scene the poet describes this woman who is "mastered by the brute blood of the air" and writes of "her thighs caressed/By the dark webs, her nape caught in his bill". For 10 points, name this heroine romanced by a swan in a poem by W. B. Yeats.

ANSWER: Leda

9. Led by John J. McCloy, in 1946 this entity pressured France to purge Communists from its government. This organization promulgated "Six Strategic Themes" to promote environmental conservation, and under Robert McNamara it targeted river blindness. Joseph Stiglitz and Larry Summers have both served as chief economist to this organization, with the former later criticizing its (*) "shock therapy" policies. The brainchild of Harry Dexter White and John Maynard Keynes, this entity was one of four created at the Bretton Woods Conference. For 10 points, name this international finance organization, currently led by Jim Yong Kim, the counterpart to the IMF.

ANSWER: World Bank

10. A recent Jenny Bristow article in the *British Journal of Sociology* described the creation of these people as a social problem and mentions Francis Beckett's book asking "What did [these people] ever do for us." Some of these people were the 1966 *Time* people of the year and Jane Falkingham has argued that in the UK, this group emerged in two phases, rather than the single period seen in America. (*) Jonathan Pontell coined the term "Generation Jones" to describe the second half of this group, described as the "me generation" by Tom Wolfe. For 10 points, name this generation born in a period of increased fertility after World War Two.

ANSWER: Baby Boomers [prompt on "Generation Jones" before mentioned, prompt on "Postwar generation"]

11. In one work by this thinker he suggested that if Germany had won the First World War, a prosperous reich similar to the European Union would have been established. "Competition, science, the rule of law,

medicine, consumerism and the work ethic” constitute six killer apps outlined in one work by this author of *The Pity of War*. With Moritz Schularick, this man coined the term chimerica which he used to describe the US-China economic duopoly which features prominently in his book (*) *The Ascent of Money*. In his book *Colossus*, this person argued that America was an empire, but that this should be celebrated as part of a mission to civilize. For 10 points, name this Scottish historian and husband of Ayaan Hirsi Ali, the author of *Empire: How Britain Made the Modern World*.

ANSWER: Niall Ferguson

12. In a film by this person, a forensic photographer bounces a rubber ball while shooting a scratched pane of glass. This director played himself in Jean-Luc Godard’s *Contempt*, in which he is introduced as “the one who did that Western with Dietrich”, a reference 1952’s *Rancho Notorious*. This director’s final film was entitled for the “Thousand Eyes” of a master criminal first introduced in a 1922 film, (*) Dr. Mabuse [“Mah-boo-zeh”]. In films by this person, Hans Beckert whistles “In the Hall of the Mountain King” before murdering children and Rotwang creates Maria’s robot double. For ten points, name this Austrian-German director of *M* and *Metropolis*.

ANSWER: (Friedrich Christian Anton) “Fritz” Lang

13. A dumpling made from mashed potato and potato flour local to this region is notable for its central depression. Although its name is pre-Indo-European, the Old Slavic word for “damp” has been suggested as an etymology for this region’s name. The Rybnik Coal Area is located in this region and the (*) Lusatian strip is the only area of this region located in Germany. The upper portion of the Oder River runs through this region including its largest settlement of Wrocław [vrots-wav]. Located mostly in south-eastern Poland, for 10 points, name this industrially-important region of central Europe.

ANSWER: Silesia OR Schlesien OR Śląsk OR Slezsko OR Schläsing OR Ślůnsk

14. This novel’s protagonist suspects a man of being “a monster” because he shouts at some twins while giving her a swim lesson, and that man ponders the significance of leaving a love letter on top of an illustration of genitalia in *Gray’s Anatomy*. A man accused of raping Lola after a dinner party in this novel is released from prison to enlist in World War II and dies of (*) septicemia at Dunkirk, although the narrator writes a version of his story in which he is reunited with a woman who dies in the Tube during a Blitz bombing. For 10 points, name this novel in which Cecilia’s budding romance with Robbie Turner is ruined by Briony Tallis, written by Ian McEwan.

ANSWER: Atonement

15. This book speaks of “crucifying the Son of God afresh” in discussing the impossibility of repentance for Christian apostates. One passage in this book references “the order” of the king Melchizedek in calling Jesus “a high priest forever”. Because of the perfect sacrifice of Jesus’s death, animal sacrifices are no longer needed, according to this book that argues that (*) Abraham, Isaac, and Jacob did not receive what they had been promised in spite of their faith in its 11th chapter. For 10 points, name this un-attributed letter of the New Testament, traditionally thought to have been written by St Paul and addressed to Jewish converts to Christianity.

ANSWER: Epistle to the Hebrews (or Letter to the Hebrews)

16. Leo Steinberg argued for the “determined dissociation” of the figures in this painting from each other, with their sole fixation being the viewer. The viewer is brought into this painting’s scene by the corner of a white table holding fruit that juts into its bottom centre. The positions of the limbs of figures in this painting were inspired by the artist’s seeing *The Opening of the Fifth Seal* by El Greco. It’s not by Matisse but like its artist’s (*) *Bonheur de Vivre*, this painting was influenced by Cezanne’s *Les Grandes Baigneuses* [lay GROHND BEH-nyurz], and by Matisse in its rendering of faces like African masks. For 10 points, name this 1907 proto-Cubist painting of five women by Pablo Picasso.

ANSWER: Les *Demoiselles d'Avignon* (or The *Young Women of Avignon* or Le *Bordel d'Avignon* or The *Brothel of Avignon*)

17. **Prior to surgery to remove one tumour of this organ, patients must be given phenoxybenzamine or doxazosin to minimise risk of intraoperative hypertension. Preganglionic sympathetic fibres unusually synapse directly onto cells in this organ which are named for the fact they stain brown with chromium salts. In the short synacthen test, this organ's zona fasciculata is stimulated by exogenous (*) ACTH.** That test is used to diagnose the insufficiency of this organ called Addison's disease, which occurs when this organ's cortex stops producing cortisol. For 10 points, name these paired organs that sit atop the kidneys whose medullas release a namesake hormone also known as epinephrine.

ANSWER: Adrenal glands

18. **A Slovakian group which contributed to one instance of this action was codenamed "Bernolák," [bern-oh-lahk] while an earlier instance was attempted in 1287 by Nogai Khan and Talabuga. The Union of Kédainiai [keh-dai-nee-ai] promised territory for Sweden upon successful completion of this action. The Mongols first carried out this action to prevent any help being given to (*) Bela IV of Hungary. Claire Hollingworth was the first to report on one instance of this action, which was called "the scoop of the century," while a successful Russian attempt at this action in 1792 brought about the Second Partition. For 10 points, name this aggressive military action, performed by Nazi Germany on 1 September 1939.**

ANSWER: invading Poland [accept word variants, prompt on "invasion"]

19. **John David Jackson wrote a theoretical paper on the catalysis of this process by negative muons, as observed experimentally by Luis Alvarez. The "triple product" of confinement time, reactant density and temperature has surpassed (*) Lawson's criterion as a measure of when this process becomes sustained. The use of magnetic fields to confine plasma in a tokamak allows this process, whose astronomical forms include the CNO cycle and the triple alpha process. For 10 points, name this process by which energy is released through nucleosynthesis in stars by the combination of light elements into heavier ones.**

ANSWER: Nuclear fusion [do not accept "cold fusion"]

20. **Swiss members of this profession were known as *Spazzacamini*. George Smart tried to mechanize this profession in 1803 to address health concerns after Jonas Hanway claimed that attention to the abolition of slavery had distracted from conditions in this industry. The 7th earl of Shaftesbury championed several laws regulating this profession, claiming to have met a four-year-old practitioner. The first recorded occupational (*) cancer, a skin cancer of the scrotum, afflicted members of this profession, exposed to carcinogens while climbing—often nude—into cramped spaces. For 10 points, name this profession that involved clearing ash and soot from namesake structures.**

ANSWER: chimney sweep [accept word variants; prompt on child labourers]

Tiebreaker

21. John Entwistle is credited with playing horns on the last album by this country's highest-selling rock band. The music to the Frank Sinatra song "My Way" was written by a singer from this country who died when he was electrocuted in his bathroom. Panda Bear featured on a song by an act from this country called "Doin' It Right." A recent single by an artist from this country begins "I'll die way before Methuselah/So I'll fight sleep with ammonia." That song is "Tilted". A singer from this country became famous in the English-speaking world for a duet he recorded with his lover Jane Birkin. For 10 points, name this country of Téléphone, Claude François, Daft Punk, Christine and the Queens and Serge Gainsbourg.

ANSWER: France (or République française)

Bonuses

1. The second in this collection of nine suites contains a toccata movement nicknamed “*The Little Train of Caipira*”. For 10 points each:

[10] Name this set of suites which combine the contrapuntal techniques of a certain baroque composer and the folk music of the composer’s home country in South America

ANSWER: **Bachianas Brasileiras**

[10] *Bachianas Brasileiras* are a set of compositions by this Brazilian composer who also composed a series of compositions entitled *Chôros*

ANSWER: Heitor **Villa-Lobos**

[10] The first of Villa-Lobos’ *Chôros* is written for this solo instrument. Villa-Lobos also composed twelve études for this instrument for the virtuoso Andrés Segovia.

ANSWER: Classical **Guitar**

2. Mark Franklin has outlined several ways to explain the decline in turnout since the Second World War. For 10 points each:

[10] One cause is “young initiation”, where people develop bad habits of not voting because they are first able to vote at a more turbulent time as a result of this change which was supported in the U.S. by the 26th Amendment.

Description acceptable.

ANSWER: **Lowering** the **voting age** to 18 (accept obvious equivalents)

[10] However, voter turnout has also decreased in countries which have not lowered their voting age, such as this country whose politics has been dominated by the Liberal Democratic Party since the 1950s.

ANSWER: **Japan** (accept **Nihon**)

[10] Franklin also suggests that enthusiasm wanes when results are less decisive. This “law” states that the proportional representation system tends to lead to many mutually independent parties, while plurality systems tend to lead to two dominant parties.

ANSWER: **Duverger**’s Law

3. In this opera, Walther [VAHL-tuh] seeks to win the hand of Eva by convincing the people of the value of a less-regimented approach to singing. For 10 points each:

[10] Name this opera, in which the villain Beckmesser is humiliated during the St. John’s Day song contest in the titular German city.

Answer: *Die **Meistersinger von Nürnberg*** (or *The **Mastersingers of Nuremberg***)

[10] The initial rejection and eventual celebration of Walther’s music suggests that he may be an avatar of his creator, this composer who also included a song contest in his opera *Tannhäuser* [TAHN-hoy-zuh].

Answer: Wilhelm Richard **Wagner**

[10] This bass-baritone character in *Die Meistersinger* coaches Walther to victory in the final act; a genial meistersinger, he interrupts one of Beckmesser’s serenades by cobbling loudly.

ANSWER: **Hans Sachs** [accept either underlined name]

4. Scenes depicting this warrior-people in battle against Greeks could be found on the walls of both the Parthenon and the Mausoleum. For 10 points each:

[10] This group of people were led at Troy by Penthesilea, who Achilles fell in love with after killing them.

ANSWER: **Amazons**

[10] This hero accompanied Heracles against the Amazons in some versions of the myth to obtain Hippolyta’s girdle, and ended up marrying her, leading to strife with his other wife, Phaedra.

ANSWER: **Theseus**

[10] This Volscian warrior woman is Virgil’s Italian equivalent of an Amazon, and is noted for being fleet of foot, before being killed by Arruns.

ANSWER: Camilla

5. As well as bringing law to the Israelites in *The Ten Commandments*, Charlton Heston was heavily involved with political causes in the 1960s. For 10 points each:

[10] During the promotional campaign for *El Cid*, Heston attracted the chagrin of the studio by helping to picket segregated restaurants in this state whose city of Tulsa had been the site of an infamous 1921 race riot.

ANSWER: Oklahoma

[10] After becoming involved in the Civil Rights struggle, Heston was elected head of this acting union in 1965. This acting union was earlier headed by Ronald Reagan and in 2012 merged with the AFTRA.

ANSWER: Screen Actors Guild (accept **SAG**)

[10] Heston eventually began to doubt his liberal attitudes. A moment of realisation was driving past a poster for this unsuccessful presidential candidate emblazoned with the words “In Your Heart You Know He's Right” and realising that he agreed.

ANSWER: Barry Goldwater

6. Objects in this text include the not-very-useful sword Hrunting, the somewhat-more-useful Nægling, and the mysterious “glof” belonging to the first of its three monstrous protagonists. For 10 points each:

[10] Name this Old English epic, in which the title warrior saves Hrothgar from the depredations of Grendel.

ANSWER: Beowulf

[10] The only surviving text of *Beowulf* is in this manuscript, the second part of Cotton Vitellius A.xv. [“A-fifteen”]. It has been suggested that heavy wear on one page of this manuscript, held at the British Library, is the result of readers’ interest in the dragon.

ANSWER: Nowell Codex [or Nowell manuscript]

[10] There may be some connection between a song sung in Hrothgar’s hall and the Old English text of this kind often named for Caedmon, which begins “Now we must honour the guardian of heaven.”

ANSWER: hymn [accept “Caedmon’s hymn”]

7. In the 1970s, the USA and Russia were capable of collaboration – answer the following on science related to the Apollo-Soyuz Test Project. For 10 points each:

[10] Apollo-Soyuz was the last mission to use the Apollo Command/Service Module, which was powered using these devices that create power by reacting hydrogen and oxygen to water at two electrodes.

ANSWER: Fuel cells

[10] Apollo-Soyuz was the only flight of Deke Slayton, one of America’s original seven astronauts who spent the 1960s grounded due to this condition. This condition causes an irregularly irregular pulse because of disorganised electrical activity in the upper chambers of the heart.

ANSWER: Atrial Fibrillation [do not accept answers mentioning “defibrillation”]

[10] The American crew of Apollo-Soyuz narrowly escaped death on re-entry due to a leak of this hypergolic rocket propellant containing a weak nitrogen-nitrogen single bond.

ANSWER: Dinitrogen tetroxide [accept N₂O₄]

8. This novel’s narrator becomes the concubine of a character named Villeroy. For 10 points each:

[10] Name this novel, whose narrator describes his experience at institutions like Mettray and Fontevault. A man named Harcamone awaits execution in this novel.

ANSWER: Miracle of the Rose [accept Miracle de la rose]

[10] The author of *Miracle of the Rose*, Jean Genet, also wrote this play, in which Solange and Claire’s sadistic role-plays culminate in the latter drinking a poisoned cup of tea.

ANSWER: *The* Maids [accept *Les* Bonnes]

[10] Another pioneer of the Theatre of the Absurd was this author of *The Bald Soprano*, whose most famous work, *Rhinoceros*, ends with Berenger declaring that he is “not capitulating.”

ANSWER: Eugène **Ionesco**

9. This vitamin is responsible for increasing intestinal absorption of minerals including calcium, magnesium and zinc. For 10 points each:

[10] Name this vitamin whose deficiency can cause Rickets and osteomalacia. Its actions include increasing total body calcium

ANSWER: Vitamin **D** [or **cholecalciferol**]

[10] *Two answers required.* After being produced in the skin, Vitamin D has to be twice hydroxylated to become active; those hydroxylations take place in these two organs. These two organs are the only major sites of gluconeogenesis.

ANSWER: **Liver** and **Kidneys**

[10] Diseases like sarcoidosis and TB are characterised by the formation of these inflammatory pathological entities. These entities contain many macrophages which are also capable of hydroxylating Vitamin D, meaning its levels are frequently elevated in the aforementioned diseases.

ANSWER: **Granulomas** [or **granulomata**]

10. For 10 points each, answer the following on the relationship of puppet theatre to literature:

[10] This playwright of *The Caucasian Chalk Circle* and *Mother Courage and Her Children* put on renditions of the works of Frank Wedekind and Gerhart Hauptmann, while running a puppet theatre with friends as a teenager.

ANSWER: (Eugen) Bertolt (Friedrich) **Brecht**

[10] Indian puppet theatre frequently represents stories from these works of Sanskrit literature. More narrative in content than the Vedas, the eighteen “Great” works of this type include ones named for Bhagavata and Skanda.

ANSWER: **purana**(s)

[10] This Japanese tragedian created works such as *The Love Suicides at Amijima* for the jōruri puppet theatre style, a precursor to bunraku.

ANSWER: **Chikamatsu Monzaemon** [accept either underlined part, accept **Sugimori** Nobumori]

11. This group was organized by Sheikh Haydar of the Safaviya tariqa who made his followers wear twelve-gored turbans of scarlet material, leading to their Turkish derived name. For 10 points each:

[10] Identify this largely Turcoman group of heterodox Twelvers who formed the dominant military force in the Safavid Empire.

ANSWER: **qizilbash**

[10] The proselytising of the Qizilbash in Anatolia was effectively ended by a decisive defeat at this 1514 battle where Shah Ismail I was wounded fighting the forces of Sultan Selim I, who captured Ismail’s entire harem.

ANSWER: Battle of **Chaldiran** [chal-duh-ran]

[10] Petrus of Monte Libano was sent as an envoy of Shah Ismail I to this Holy Roman Emperor and king of Spain, who defeated Francis I at Pavia and later abdicated in favor of his son Philip II and his brother Ferdinand I.

ANSWER: **Charles V** [accept **Carlos V** or **Karl V**, prompt on partial answers]

12. Answer some questions about nuclear weapons in British Science Fiction. For 10 points each:

[10] The fictional element “carolinum” allows for the use of small scale nuclear weapons in this author’s 1914 novel *The World Set Free*. One of this author’s other works depicts the relationship between the troglodytic diminutive Eloi and their troglodytic counterparts.

ANSWER: **H. G. Wells** [prompt on **Wells**]

[10] This author’s work *Red Alert* dealt with the absurd ease with which nuclear war could be triggered. He collaborated with Stanley Kubrick on *Doctor Strangelove*, which *Red Alert* helped inspire.

ANSWER: Peter **George** [accept Peter **Bryant** (the pseudonym it was published under)]

[10] The Infinite Improbability Drive transforms a nuclear missile into a bowl of petunias in this book. That bowl of petunias is the first appearance of Agrajag, whom the protagonist kills hundreds of times.

ANSWER: *The Hitchhiker's Guide to the Galaxy*

13. This substance has an anomalously negative slope on its phase diagram due to the high density of its liquid compared to its solid form. For 10 points each:

[10] Name this substance, which Bronsted acids convert to H₃O⁺. [aitch-3-o plus]

ANSWER: **Water** (accept **H₂O**)

[10] The coordination of the various hydronium species with water molecules is dominated by this type of intermolecular bond, which is also responsible for the crystal structure of ice and the high boiling point of water.

ANSWER: **Hydrogen** bonding

[10] This mechanism uses networks of Hydrogen bonds to explain the unusually high diffusivity of protons in water via the formation of Eigen and Zundel cations.

ANSWER: **Grotthuss** mechanism

14. Pliny the Elder tells a story of how the soldiers of Mark Antony destroyed a golden statue of Anahit, a fertility goddess worshipped by these people. For 10 points each:

[10] Name this people with a pantheon successively associated with Zoroastrian and Greek gods and whose myths were collected by the fifth-century Christian monk Movses Khorenatsi.

ANSWER: **Armenian** people

[10] Though identified with Zeus, this chief god of the Armenian pantheon was derived in character and name from the creator deity of Zoroastrianism.

ANSWER: **Aramazd**

[10] Although usually associated with Heracles, the Armenian fire god Vahagn was associated with this field in which sense he was equivalent to the Greek Ares.

ANSWER: **war**

15. In the words of Will and Ariel Durant, this ruler “repeatedly baffled Christendom by continuing to live”. For 10 points each:

[10] Name this last Habsburg King of Spain whose numerous physical and mental disabilities rendered him an ineffectual ruler.

ANSWER: **Charles II** [or **Carlos II**]

[10] Carlos's selection of Philip, Duke of Anjou as his successor triggered this war in which a French-led coalition backed Philip against a Habsburg-led Grand Alliance. Battles of this war include Blenheim.

ANSWER: War of the **Spanish Succession**

[10] Although both sides claimed victory, this 1710 battle in Spain's Guadalajara [“Gwa-da-la-ha-ra”] province on the day after Brihuega [Bree-hwe-ga] proved decisive for French victory.

ANSWER: Battle of **Villaviciosa**

16. The 1834 Poor Law Amendment Act was designed to force those claiming poor relief to go into a workhouse. For 10 points each:

[10] One cause of the 1834 Act was the unpopularity of this system of poor relief, named after a district in Berkshire, which allowed workers to claim benefits when bread prices rose above a certain level.

ANSWER: **Speenhamland** system [prompt on “allowance system”]

[10] This economist strongly criticised the Speenhamland system in his *Essay on the Principle of Population*, arguing that it encouraged workers to have more children than they could provide for, and so led to greater misery in the long run.

ANSWER: Thomas Robert **Malthus**

[10] Edwin Chadwick championed the New Poor Law. His report “The Sanitary Condition of the Labouring Poor” paved the way for the Public Health Act, one of whose benefits was the expansion of this system in London, much

of which, including the Embankment by the Thames was designed by Joseph Bazalgette.

ANSWER: sewer systems (prompt on public works)

17. This artist showed Christ in a red lozenge shape inside a black oval inside a red quadrilateral in Saviour in Glory, one of this artist's paintings for the iconostasis of the Dormition Cathedral in Vladimir. For 10 points each:

[10] Name this pre-eminent Russian icon artist of the turn of the 15th century.

ANSWER: Andrei Rublev

[10] Andrei Rublev's most famous icon is his depiction of the Trinity as the three angels who visited this biblical patriarch who notably didn't kill his son Isaac.

ANSWER: Abraham

[10] A number of Rublev's depictions of the early life of Jesus are held in this Moscow cathedral that also houses the *Theotokos* by Rublev's contemporary Theophanes the Greek.

ANSWER: Cathedral of the Annunciation OR Blagoveschensky sobor

18. This author was inspired by a trip to Israel to interview Aharon Appelfeld to write *Operation Shylock*. For 10 points each:

[10] Name this author of several who first used a fictionalized version of himself having an affair in London in *Deception*.

ANSWER: Philip Milton Roth

[10] Roth also used the fictional alter ego Nathan Zuckerman in this novel, which shares its title with a Grant Wood painting, in which Seymour "The Swede" Levov follows his daughter Merry after she plants a bomb in a post-office during the Vietnam war.

ANSWER: Philip Milton Roth

[10] This other fictional Jewish-American writer composes letters to friends, family, and notables like Baruch Spinoza and Dwight Eisenhower. In the novel he titles, this man "rescues" his daughter Junie from Madeleine, his ex-wife, and Valentine Gersbach.

ANSWER: Moses Elkanah Herzog [accept either underlined part]

19. The only interactions that these substances made of point particles undergo are elastic collisions. For 10 points each:

[10] Name these substances governed by an equation that states that $P V$ equals $n R T$.

ANSWER: Ideal Gas (accept Perfect Gas, prompt on Gas)

[10] To account for nonideality, this equation of state which adds a and b coefficients to account for non-zero volume of molecules and inter-particle attractions may be used.

ANSWER: Van der Waals equation of state

[10] The a and b coefficients of the Van der Waals equation are typically defined in terms of these two parameters multiplied by differing constants. Two answers required.

ANSWER: Critical Temperature and Critical Pressure [accept word forms such as Temperature and Pressure at the critical point] [Don't accept or prompt on just "Temperature" or "Pressure"]

20. Let's take a trip through Canada. For 10 points each:

[10] Canada's southernmost city is this city of Ontario on the Detroit River a tunnel connects it to the U.S.A. The Michigan Central Railway connects rail services from this city to the U.S.A.

ANSWER: Windsor

[10] This province borders Ontario to the west. This province's capital lies roughly halfway between this province's namesake lake and another lake which shares its name with that capital, Lake Winnipeg.

ANSWER: Manitoba

[10] Bordering Manitoba to the north is this state that includes the world's northernmost inhabited place, Alert, which is on Ellesmere Island, one of around thirty thousand islands in this territory.

ANSWER: **Nunavut**