

## VETO 2017

Packet by Ian Dewan

NOTE TO MODERATOR: *Unfortunately, due to the nature of the tossups in this pack, it is difficult to anticipate every possible equivalent of the correct response. I've tried my best to write comprehensive answerlines, but you should assume every tossup has "accept clear knowledge equivalents" implicitly in the answerline. Good luck.*

### Tossups

1. *Description acceptable.* Augustine argues for this view in Book XI of his *Confessions*. It has nothing to do with travel, but Kurt Gödel was led to this position by his discovery of a solution to the Einstein field equations allowing for CTCs. It was most famously argued for in a 1908 paper that argued the B-series alone fails to account for change because events in that series always bear the same relations to each other. That paper, which is also named for this view, is by J.M.E. McTaggart, and argues that the existence of the A-series is necessary to a certain concept, but the A-series is contradictory because it gives events all the incompatible properties of being past, present, and future. For 10 points, what philosophical position holds that a certain concept, often contrasted with space, is inconsistent?

ANSWER: the unreality of time [accept descriptions of time not being real, or there being no such thing as time, or time being imaginary]

2. *Description acceptable.* Gerhard Heilmann rejected this view on the grounds of Dollo's Law and the apparent absence of clavicles in certain organisms, and proposed an alternative "thecodont hypothesis." This view was revived by the work of John Ostrom after the discovery of *Deinonychus*. It has been opposed on the grounds of a "temporal paradox," but is extremely well supported by similarities in skeletal characteristics. This fact is supported by the discovery of air sacs in fossil theropods. Because of this fact, Aves is considered a subclade of Maniraptora, and it is supported by the discovery of fossilized feathers in groups like the Dromaeosauridae. The first evidence for this fact was the discovery of *Archaeopteryx*. For 10 points, what is the current consensus on the evolutionary origin of birds?

ANSWER: birds are descended from dinosaurs [prompt on reptiles in place of dinosaurs]

3. *Description acceptable.* An exception to this fact is caused by the Hartman effect, but applies only to virtual photons. The movement of objects outside the Hubble sphere appears to contradict this fact, due to the expansion of the universe. This fact is due to the Lorentz factor having a vertical asymptote at a certain value, meaning a certain action requires infinite energy. Because spacelike-separated events do not have the same order in all frames of reference, if this fact were not true, causality would be violated. Observations appearing to contradict this fact were made by the OPERA neutrino detection experiment in 2011, but were later found to be the result of equipment problems. For 10 points, what limit is imposed on the motion of massive bodies by special relativity?

ANSWER: no massive object can travel at/over the speed of light [accept either of "at the speed of light" or "over the speed of light"]

4. *Description acceptable.* Peter van Hagenbach's 1474 attempt to use this concept was rejected by a tribunal of the Holy Roman Empire. Yoram Dinstein proposed the *mens rea* principle as a theory of this concept, to replace the doctrines of absolute liability and *respondeat superior*. A ruling on the applicability of this concept after the Kafr Qasim massacre referred to the "black flag" of manifest illegality. Section 14 of the *Crimes Against Humanity and War Crimes Act* defines this defence, as does Article 33 of the Rome Statute. William Calley unsuccessfully attempted to use this defence when prosecuted for his involvement in the My Lai massacre. Despite Article 8 of the *London Charter* precluding it, for 10 points, what defence to violations of international law was famously used by several defendants at the Nuremberg trials?

ANSWER: superior orders defence [accept anything expressing the idea that the defendant was obeying a superior's orders, or "just following orders"; accept orders are orders; accept Befehl ist Befehl; accept Nuremberg defence before Nuremberg is mentioned]

5. *Description acceptable.* The occupant of this place was attended by Thomas Closset. It is possible Süßmayer received instructions for the completion of a work from this place, although it is unlikely he took dictation for it. After becoming confined to this place in late November 1791, its occupant whispered to

his wife “Hofer is just taking her top F; — now my sister-in-law is singing ... how strongly she strikes and holds the B-flat: ‘Hört! hört! hört! der Mutter Schwur’” shortly before he left this place permanently. An historically inaccurate film shows Salieri visiting this place, where he has the *Confutatis* dictated to him by its occupant. Portions of the KV 626 *Requiem* were written, for 10 points, in what place where the composer of *Eine Kleine Nachtmusik* spent the time immediately preceding his death?

ANSWER: Wolfgang Amadeus **Mozart’s deathbed** [accept any description of the bed/room where Johannes Chrysostomus Wolfgangus Theophilus Mozart died]

6. *Description acceptable.* A dove immediately below Venus’ left hand serves this function in Jacques-Louis David’s *Mars Being Disarmed by Venus and the Three Graces*, and it is served by the corners of sheets in his *Hector’s Body* and *Cupid and Psyche*. Biagio da Cesena complained of the absence of objects serving this function in a work by Michelangelo, who then added a depiction of Cesena as Minos to that work, together with a snake serving this function for him. That work was modified by a painter referred to as “Il Braghettono” to add drapery serving this function, and is *The Last Judgment*. A cast given to Queen Victoria of Michelangelo’s *David* had a removable plaster leaf added to it to serve this function. For 10 points, what function is often served by fig leaves in depictions of Adam and Eve?

ANSWER: **obscuring the genitals** [accept **covering** one’s **nudity**; accept any description that makes it clear the objects are preventing the viewer from seeing the subjects’ genitalia]

7. *Description acceptable.* The continuum hypothesis does not have this property, but the technique of forcing was invented to show that statements with this property are not theorems of ZF. Tychonoff’s and Krull’s theorems have this property, as does the statement “every surjection has a right inverse.” Zermelo introduced an axiom that trivially has this property in a 1904 paper proving a statement with this property. Any statement with this property implies the existence of non-Lebesgue measurable sets. The statement “every vector space has a basis” has this property, and a statement on the existence of maximal elements in posets, Zorn’s lemma, has this property. The Well-Ordering Theorem has, for 10 points, what property which means it is true if and only if a certain axiom of ZFC is?

ANSWER: being **equivalent to** the Axiom of **Choice**

8. *Description acceptable.* John Furriskey is the protagonist of a moralistic novel of this kind by Dermot Trellis. A play of this kind, *The Enemies*, was finished by Jaromír Hladík while awaiting execution by the Gestapo. Novels of this kind include *Outside the Town of Malbork*, *The Mad Trist*, and *The Grasshopper Lies Heavy*. The epigraph of *The Great Gatsby* is an extract from a poem of this kind. Other works of this kind include *The Red Book of Westmarch* and *The Theory and Practice of Oligarchical Collectivism*, which is purportedly by Emmanuel Goldstein, the subject of the Two Minutes Hate. A famous play of this kind is *The Murder of Gonzago*. For 10 points, the novels of Kilgore Trout and a play performed “to catch the conscience of the king” share what property, which means you can’t read them?

ANSWER: being **fictional** [accept any description of a work of literature **within another work** of literature; accept any combination of specific types of works within works, like **play within a play**, or **book within a book**, or **novel within a short story**, etc.; prompt on not being real]

9. *Description acceptable.* The first of these things was called Naffarin, and their history and the motivation for their creation was discussed in the lecture “A Secret Vice.” One of these things was written in a script created by Rúmil, the Sarati, and several of them are described in the *Lhammas*, which divides its subjects into Oromëan, Aulëan, and Melkian families. Their creator later rejected that division, instead introducing a new one of these called Primitive Quendian. One of these things had triconsonantal roots, inspired by Hebrew, and that one, Khuzdul, was kept secret by users like Gimli. The most well-attested of these things were created for the use of the Elves, and are Sindarin and Quenya. For 10 points, name these inventions of the author of *The Lord of the Rings*.

ANSWER: **languages created** by John Ronald Reuel **Tolkien** [antiprompt on **languages of Middle Earth**]

10. *Description acceptable.* This political position was expressed by the “No Terms” resolution passed by the legislative assembly of Prince Edward Island. Albert J. Smith, Antoine-Aimé Dorion, and John Sandfield Macdonald all held this position, which the Responsible Government League advocated in a 1948 referendum. Wilfrid Laurier expressed this position when he claimed “We are being handed over to the English majority” and demanded “a free and separate government.” All but one of the MPs elected from

Nova Scotia in 1867 supported this position, including Joseph Howe. This position was opposed by a Great Coalition including George Brown and John A. Macdonald. For 10 points, what political position entailed disagreement with a union created by the *British North America Act, 1867*?

ANSWER: **opposition** to Canadian **Confederation** [accept any description of not wanting Confederation to happen, or not wanting any particular province or provinces to join Confederation or Canada]

11. *Description acceptable.* A petition for this policy presented by Johanna and Ebenezer Cartwright to the Council of War led to claims St Paul's had been sold. John Weemse was an early supporter of this policy, which Thomas Sherley wrote to James I arguing for on economic grounds. William Prynne opposed this policy in his *Short Demurrer*, citing the cases of William of Norwich and Little St Hugh. Many Millenarians supported this policy because they thought it a necessary prequel to the Second Coming, and it was *de facto* implemented by Oliver Cromwell. The petition of Menasseh ben Israel for this action led to the 1655 Whitehall Conference. For 10 points, what action reversed Edward I's Edict of Expulsion and allowed members of a certain religious group back into a certain country?

ANSWER: the **readmission** of the **Jews** to **England** [prompt on partial answers]

12. *Description acceptable.* A polychaete species is named for a person injured in this way, although the claim that they inflict this injury on each other is not even anatomically possible: that species is the Bobbitt worm. In *The Baroque Cycle*, an aptly-named character has this injury half-happen to him in a botched attempt to cure a disease. The Kanamara Matsuri festival commemorates an item used to avoid this injury, which was accidentally inflicted on David Reimer as an infant. This injury happened to Johan van der Smut in an unfortunate smelting accident, and in the course of his dismemberment and reassembly, Osiris sustains this injury due to a hungry fish. For 10 points, what injury afflicts Theon Greyjoy, Goldmember, and Half-Cocked Jack Shaftoe?

ANSWER: **loosing** ones **penis** [accept any description of a specific way of loosing it, like having it cut off]

13. *Description acceptable.* A speech in this scene beginning "O well done! I commend your pains" and one asking why someone "stands thus amazedly" may be interpolations, as they introduce songs and are in iambic tetrameter. In this scene, the protagonist resolves "From this moment, / The very firstlings of my heart shall be / The firstlings of my hand," and before his entry a character says "By the pricking of my thumbs, / Something wicked this way comes." The protagonist exclaims "Who can impress the forest? bid the tree / Unfix his earth-bound root?" when told he "shall never vanquished be until / Great Birnam wood to high Dunsinane hill / Shall come against him" in, for 10 points, what scene where an armed head, a bloody child, a crowned child, and eight kings are conjured for the king of Scotland by the Weird Sisters?

ANSWER: the **Apparitions** scene from **Macbeth** [or **Act IV, Scene i of Macbeth**; accept descriptions of the scene with **Macbeth's second meeting** with the **Witches**, or anything that makes clear that **Macbeth** is **meeting the Witches on his own initiative**, as opposed to theirs; accept Weird Sisters for Witches before it is said; prompt on partial answers]

14. *Description acceptable.* A policy of this kind was protested by a strike in Wrzesńia, and was imposed by Prussia. Ontario's Regulation 17 was a policy of this kind, and oralism is a policy of this kind in deaf education. The *hōgen fuda* was used to enforce a policy of this kind in Okinawa, as were the similar *le symbole* and the Welsh Not in other countries. The term "*La vergonha*" (*vair-GOONG-aw*) is used for the effects of a policy of this kind which was intensified by the education policies of Jules Ferry. Signs reading "*Soyez propres, parlez français*" were part of that policy of this kind, which was first recommended in Henri Grégoire's "Report on the necessity and means to anhilliate the patois." For 10 points, what kind of policy makes a language of instruction mandatory?

ANSWER: **forbidding** the use of (minority/regional) **languages in schools** [prompt on any thing describing a mandatory language of instruction; prompt on partial answers or linguistic discrimination]

15. *Description acceptable.* Grimm's *Teutonic Mythology* describes a painting of Hemming Wolf performing this action on the orders of Christian I, and Saxo Grammaticus tells a story of Palnatoki being ordered to attempt this action by Harald Bluetooth. Another person is compelled to perform this action after refusing to bow to a hat. Those three performers of this action took out multiple arrows before attempting it, intending to use the second to kill the person ordering it if they failed. A famous instance of this action performed at the order of Albrecht Gessler and involving the protagonist's son Walter is retold in a play by

Friedrich Schiller. For 10 points, name this recurring act of marksmanship from Germanic folklore, most famously performed by William Tell.

ANSWER: **shooting an apple off** one's child's **head** [accept the **apple shot**; accept **Apfelschuss**; prompt on partial answers]

16. *Description acceptable.* The two earliest events of this kind are caused by Ruk on Exo III. The dikironium cloud creature and the probe Nomad are each responsible for at least four of these events. The Kelvans caused the only one of these events with a female victim, Yeoman Thompson, and other victims include Ensign Wyatt and Crewman Watkins. A *kligat* is used to perpetrate one of these events after the unexpected sight of a Klingon causes its victim to draw his phaser. One of these events is perpetrated by a Horta, with whom Kirk later negotiates peace. Mechanisms by which this has taken place include being struck by lightning, vaporization, and having all of one's erythrocytes removed. For 10 points, what frequent kind of event makes it dangerous to wear a certain colour uniform on the *USS Enterprise*?

ANSWER: **redshirts** being **killed** [accept any description of the **death** of members of the *Enterprise* crew (or of *Star Trek: The Original Series* characters) wearing **red**]

17. *Description acceptable.* A *Novaya Gazeta* article on these people prompted a government minister to demand an apology for suggesting they exist, and a mass gathering in Grozny threatening retribution against journalists. A leader who claimed these people are not the subjects of persecution, because they do not exist, because if they did exist, their relatives would have killed them (and if they do exist they should be sent to Canada), is the president of the region where these people live, Ramzan Kadyrov, who reportedly committed to eliminating these people before the beginning of Ramadan. For 10 points, what inhabitants of a Russian republic in the Caucasus have been rounded up and placed in concentration camps since February 2017 on the basis of their sexual orientation?

ANSWER: **gay Chechens** [accept any description of (male) **homosexuals** in **Chechnya**, or the **Chechen Republic**; prompt on partial answers; prompt on answers with Russia in the place of Chechnya]

18. *Description acceptable.* Variations on this musical fragment are contained in Giovanni Paisiello's *Les Adieux de la Grand Duchesse des Russies*. This fragment starts in the trombone, and then is passed between the horn, trumpet, and trombone in an Anton Webern orchestration of a certain piece that is a common example of *klangfarbenmelodie*. The beginning of this fragment ascends C E-flat G A-flat, descends to B, then descends chromatically from G to B. A sonata for flute, violin, and harpsichord together with ten canons and two ricercars make up the most famous work based on this fragment, which was written after its composer asked J.S. Bach to improvise three- and six-voice fugues on this fragment. For 10 points, name this composition of Frederick the Great, the theme of a work dedicated to him by Bach.

ANSWER: the Royal **Theme** from the *Musical Offering* [accept the *Thema Regium*; accept *Musikalische Opfer* or **BWV 1079** in place of *Musical Offering*; accept **subject** in place of theme; prompt on partial answers]

19. *Description acceptable.* These people are described as being "invisible" in traditional historiography in a book by Matthew Restall on seven myths of a certain military campaign. Heavy demands for tribute led Xicomcoatl (she-coe-may-COE-atl) to become one of these people. Pedro de Alvarado was accompanied by about 5000 of these people during his invasion of present-day Guatemala. Despite his general Xicotencatl (she-coe-TAYN-catl) the Younger defeating a certain group of people, Maxixcatl (ma-sheesh-catl) decided not to kill Hernán Cortés, but to become one of these people instead. Many of these people came from cities like Huejotzingo (way-hote-SINK-o) and Tlaxcala (tlash-CA-la) which were enemies of Triple Alliance of the Aztecs. For 10 points, the vast majority of the besiegers of Tenochtitlan were not Spaniards, but what sort of people?

ANSWER: **native allies** of the **Conquistadors** [accept **Nahua** for native; accept of Hernán **Cortés** for of the Conquistadors before he is mentioned; prompt on partial answers]

20. *Description acceptable.* An author whom Robert Silverberg claimed could not be one of these people, James Tiptree Jr, in fact was one, as was Isak Dinesen. An "ambiguous choice" was made about the publication of a volume of poems by three of these people because of their authors' impression that they were "liable to be looked on with prejudice"; those authors also wrote about the fictional worlds of Angria and Gondal. One of these people wrote about her relationship with Chopin in *Un hiver à Majorque*, and another about a woman who decides not to marry St John Rivers after mysteriously hearing the voice of Edward

Rochester. In addition to *Jane Eyre*, *Silas Marner* is by one of these people. For 10 points, what sort of person were George Sand, George Eliot, and Acton, Currer, and Ellis Bell?

ANSWER: female authors who used male pseudonyms [prompt on partial answers]

21. *Description acceptable*. One of these people worries she is abnormal because her rape fantasies all end with her avoiding being raped. Another of these people records her thoughts on events up to 84 years after her death, and is the author of *Roughing It in the Bush*, Susanna Moodie. Yet another records her story on tapes discovered by Professor Pieixoto, and is possibly named June. One of these people breaks off her engagement with Peter by baking him a cake after she is rendered unable to eat when she begins to empathize with food. Another of these people secretly plays scrabble with The Commander, to whom she is assigned as a handmaid. For 10 points, name these people like Marian from *The Edible Woman* and Offred from *The Handmaid's Tale*, who play central roles in works by a Canadian author.

ANSWER: protagonists of Margaret Atwood novels

### Bonuses

1. This man's most notable work includes the argument from queerness. For 10 points each,

[10] Name this author of *Ethics: Inventing Right and Wrong*, who was one of the most notable proponents of error theory.

ANSWER: John Leslie Mackie

[10] Mackie's error theory is opposed to both non-cognitivism and this view, which holds that there are mind-independent moral facts.

ANSWER: moral realism

[10] This philosopher may or may not be a moral realist, depending on how pedantic you are about the definition, but he certainly held that one should abide by his Universal Categorical Imperative.

ANSWER: Immanuel Kant

2. An objection to this view is that the governess describes Quint with no prior knowledge of him. For 10 points each,

[10] What interpretation of a certain novella, supported by Edmund Wilson, holds that it has an unreliable narrator, and the children do not actually communicate with Miss Jessel and Peter Quint? A description is acceptable.

ANSWER: the Freudian interpretation of *The Turn of the Screw* [accept descriptions of the ghosts in *The Turn of the Screw* not being real, or being a figment of the governess' imagination]

[10] *The Turn of the Screw* is a novella by this American author of *The Ambassadors* and *The Portrait of a Lady*.

ANSWER: Henry James

[10] A letter from Miles' school in *The Turn of the Screw* brings this news, which he at first does not mention, but finally reveals was the result of him "saying things."

ANSWER: Miles has been expelled from the school

3. This view sees modern liberal democracies as the inevitable outcome of historical processes. For 10 points each,

[10] Name this pejorative term for historical work that regards history in terms of inevitable progress towards the present, coined by Herbert Butterfield. It leads to projecting anachronistic modern attitudes onto historical figures.

ANSWER: Whig history [or Whiggishness; do not accept Whiggism]

[10] A notable Whig historian was this author of *The History of England from the Accession of James the Second*, who also wrote a "Minute on Indian Education" while on the Governor-General's Council of India.

ANSWER: Sir Thomas James Babington Macaulay, Baron Macauley of Rothley

[10] Discussion of Whig history falls into this field of history, which studies the methodology and writing of history.

ANSWER: historiography

4. Enver Hoxha's government undertook a massive program of construction of these structures. For 10 points each,

[10] Name these ubiquitous concrete structures in a certain country that were built to provide defensive positions for partisans in a never realized "people's war" against Tito's Yugoslavia, NATO, the Soviet Union, or Greece.

ANSWER: bunkers in Albania

[10] The largest bunkers, intended for Hoxha's inner circle and the Sigurimi secret police, were located near this capital city of Albania.

ANSWER: Tirana

[10] Albania has both a stamp and a statue depicting this non-Albanian leader, who visited the country in 2007. He is weirdly popular in Albania, but is definitely not in the other member states of the Organization of Islamic Cooperation.

ANSWER: George Walker Bush [do not accept George Herbert Walker Bush]

5. NOTE TO MODERATOR: *This bonus has a visual component, found in the visual bonuses pack.* Identify some works of music from literal score clues, for 10 points each.

[10] The first score is the opening of this symphony. You may recognize its famous four note motive.

ANSWER: Ludwig van Beethoven's Fifth Symphony [accept Beethoven's Op. 67]

[10] The second score is the opening of this late Romantic symphony.

ANSWER: Pyotr Ilyich Tchaikovsky's Sixth Symphony [or Symphonie Pathétique; accept Tchaikovsky's Op. 74]

[10] The third score is the opening of this Franz Schubert lied.

ANSWER: "Erlkönig" [accept Schubert's Op. 1; accept Deutsch 328, I guess]

6. NOTE TO MODERATOR: *This bonus has a visual component, found in the visual bonuses pack.* The only thing the Pre-Raphaelite Brotherhood liked more than painting angry-looking women was painting literary characters. Identify some of those characters for 10 points each.

[10] The first set of paintings depict this Shakespearean character.

ANSWER: Ophelia

[10] The next set of paintings, by John William Waterhouse, depict the titular character of an Alfred, Lord Tennyson poem.

ANSWER: The Lady of Shallot

[10] The last set of paintings show the titular character of this John Keats poem, in which a knight is asked why he is "alone and palely loitering" when "The sedge has withered from the lake / And no birds sing."

ANSWER: *La Belle Dame sans Merci*

7. The Breeder's equation states this quantity is heritability times the selection differential. For 10 points each,

[10] Name this quantity which the Robertson-Price identity states is equal to the genetic covariance between the focal trait and relative fitness. It is the expected difference in mean phenotype between generations.

ANSWER: response to selection

[10] Natural selection is only one mechanism by which this process, the change in allele frequencies in a population, can occur; others include genetic drift and mutation.

ANSWER: evolution

[10] This other mechanism of evolution occurs when alleles are transferred from one population to another, generally by individuals moving between populations.

ANSWER: gene flow [or migration]

8. Bernard Suits gave this type of sport as a counterexample to his claim that all sports are games. For 10 points each,

[10] Name this class of sports which David Best contrasted with purposive sports. Unusually, two gold medals were awarded in a sport of this kind at the 2002 Olympics.

ANSWER: aesthetic sports [or judged sports]

[10] An example of an aesthetic sport is this one in which one might perform a “back one-and-a-half somersaults.” This July, Tom Daly won the 10m platform event in the World Championships of this sport.

ANSWER: diving

[10] According to Suits, aesthetic sports lack this component of a game, a state of affairs one aims to achieve by certain luscious means permitted by the constitutive rules of the game.

ANSWER: a prelusory goal

9. This man drowned on Canoe Lake in Algonquin Park in 1917, probably accidentally. For 10 points each,

[10] Name this artist who worked as a graphic designer for Grip Ltd. when not in Algonquin Park painting sketches for works like *Black Spruce and Maple* and *The West Wind*.

ANSWER: Tom Thomson

[10] At Grip Thomson worked with several later members of the Group of Seven, including this artist of *The Beaver Dam*, *The Little Falls*, and *The Solemn Land*.

ANSWER: James Edward Hervey MacDonald

[10] One of Thompson’s best known works is this painting of a coniferous tree of a certain species in front of Grand Lake.

ANSWER: The Jack Pine

10. A Spartan herald in this play is accused of hiding a lance under his cloak. For 10 points each,

[10] Name this play in which the women of Greece end the Peloponnesian War by withholding sex and seizing the treasury of the Delian League.

ANSWER: Lysistrata

[10] The author of *Lysistrata*, Aristophanes, worked in this genre, which focused on political satire and sexual humour, as opposed to a similarly named genre exemplified by Menander.

ANSWER: Old Comedy [prompt on partial answers]

[10] After rejecting a shield and the entrails of a horse, the women in *Lysistrata* decide to swear their oath to refrain from all sex on a bowl containing this.

ANSWER: a skin of Thasian wine

11. You are an animal physiologist studying mice. Answer some questions about the stats you use, for 10 points each.

[10] To determine if body mass of the mouse affects metabolic rate, you perform a linear regression and look at this value, the proportion of variance in the dependent variable explained by the independent variable.

ANSWER: R squared [or coefficient of determination]

[10] Since you took repeated measures of the same mouse, you include the identity of the mouse in your model as this kind of effect, making it a mixed model.

ANSWER: random effect

[10] You can likelihood-ratio tests to compare nested models. According to Wilks’ theorem, the test statistic for the LRT has this distribution, with degrees of freedom equal to the difference in the number of parameters between models.

ANSWER: Chi-squared distribution

12. NOTE TO MODERATOR: *This bonus has a visual component, found in the visual bonuses pack.* Answer some questions about an important diagram in geology for 10 points each.

[10] Name the diagram shown in the provided image.

ANSWER: Bowen’s reaction series [accept the Goldich dissolution series]

[10] The yellow box should contain the name of this mineral, the second most abundant in Earth’s crust. It has chemical formula SiO<sub>2</sub>.

ANSWER: quartz

[10] The blue boxes cover the name of this type of igneous rock. Basalt and gabbro are this kind of rock.

ANSWER: mafic

13. NOTE TO MODERATOR: *This bonus has a visual component, found in the visual bonuses pack.* Answer some questions about the provided reaction mechanism, for 10 points each.

[10] The image shows the production of ethyl acetate from butanone via this reaction.

ANSWER: **Baeyer-Villiger** oxidation [accept **rearrangement** or **reaction** in place of oxidation]

[10] The third step of the mechanism is this kind of reaction, in which bonds are broken and made in the same step, without an intermediate.

ANSWER: **concerted**

[10] The Baeyer-Villiger oxidation can also be used to convert cyclic ketones into these cyclic esters.

ANSWER: **lactones**

14. NOTE TO MODERATOR: *The ANSWERS to this visual bonus are found in the visual bonuses pack; do not show the visual bonus page to the teams.* Reenact each of the following works of art as a *tableau vivant*, for 10 points each. Use of props is encouraged.

[10] Jacques-Louis David's *The Oath of the Horatii*

ANSWER: see the visual bonus pack

[10] Auguste Rodin's *The Age of Bronze*

ANSWER: see the visual bonus pack

[10] Grant Wood's *American Gothic*

ANSWER: see the visual bonus pack

15. Answer some questions about athletes who satisfy the Canadian content requirement, for 10 points each.

[10] This pole vaulter won gold at the 2015 World Championships in Athletics, but has since struggled with consistency, coming in tenth at the Rio Olympics and eighth at this year's World Championships.

ANSWER: Shawnac "Shawn" **Barber**

[10] This Paralympic wheelchair racer, who holds the world record for the women's 200m T54, was appointed to the Senate in 2016.

ANSWER: Chantal **Petitclerc**

[10] This current captain of the Canadian women's soccer team plays for Portland, Oregon in the NWSL, and is second only to Abby Wombach in number of goals scored in women's international matches.

ANSWER: Christine **Sinclair**

16. Reginald Maudling described Harold Wilson's commitment to this policy as "disastrous." For 10 points each,

[10] Name this British policy which placed a certain condition on Rhodesia becoming an independent country; white Rhodesian opposition to this policy led to Rhodesia's unilateral declaration of independence.

ANSWER: **No Independence Before Majority** (African) **Rule** [or **NIBMAR**]

[10] The Commonwealth Prime Ministers' Conference communiqué that committed Britain to NIBMAR was drafted by this statesman, who received the 1957 Nobel Peace Prize for his contribution to resolving the Suez Crisis.

ANSWER: Lester Bowles **Pearson**

[10] The effectiveness of sanctions against Rhodesia was impeded by the uncooperativeness of South Africa and this country. This country technically bordered Rhodesia until 1975, due to its policy of pluricontinentalism.

ANSWER: **Portugal**

17. This is one of the more interesting rules of English deri-fucking-vational morphology. For 10 points each,

[10] Name this morphological process where certain words are inserted into others, producing such terms as "guaran-goddamn-tee" and "abso-fucking-lutely."

ANSWER: **explicative infixation** [prompt on just infixation or infixes by asking what sort of word the infix is; prompt on tmesis]

[10] One rule of expletive infixation is that the infix will always be placed before a syllable with this property. This property is phonemic in English, so record (RE-cord, like the obsolete sound recording technology) and record (re-CORD, like the verb) are different words.

ANSWER: lexical stress

[10] Infixation will not occur in the middle of one of these prosodic units, which consist of multiple syllables with a fixed pattern of stress. In poetry, these are given names like iambs or dactyls.

ANSWER: feet

18. This novel's preface was added at the request of an editor, and explains its most important symbolic motif, in case the reader doesn't figure out that the wind is God. For 10 points each,

[10] Name this novel about the childhood of Brian O'Connell in 1930s Saskatchewan.

ANSWER: Who Has Seen the Wind

[10] *Who Has Seen the Wind* is by this Canadian author.

ANSWER: W(illiam) O(rmond) Mitchell

[10] Another work with the title *Who Has Seen the Wind* is a poem by this author of "In the Bleak Midwinter" and *Goblin Market*.

ANSWER: Christina Rossetti

19. This view was condemned at the Fifth Lateran Council, but is still popular among theologians. For 10 points each,

[10] Name this view in Christian theology, which holds that the soul is not immortal, and denies the existence of an intermediate state after death.

ANSWER: Christian mortalism [or psychopannychism; or thnetopsychism; accept soul sleep]

[10] Mortalists generally put a stronger emphasis on the general event of this kind, which occurs before the Last Judgment. A specific event of this kind reportedly occurred to Jesus three days after his crucifixion.

ANSWER: resurrection of the dead

[10] "We look for the resurrection of the dead and the life of the world to come" is the final line of this statement of belief written at ecumenical councils in 325 and 381.

ANSWER: the Nicene Creed [or the Niceno-Constantinopolitan Creed]

20. NOTE TO MODERATOR: *This bonus has a visual component, found in the visual bonuses pack.* Answer some questions about an accidentally ecologically disastrous policy for 10 points each.

[10] NOTE TO MODERATOR: *DO NOT read the alternate answers out loud.* These propaganda posters are advertising what government program?

ANSWER: the Four Pests Campaign [accept the Great Sparrow Campaign, or Dǎ Máquè Yùndòng; accept the Kill a Sparrow Campaign, or Xiāomiè Máquè Yùndòng]

[10] The ecologically disastrous part of China's Four Pests Campaign was its near eradication of this bird, which it turned out was important to controlling insect pests.

ANSWER: Eurasian tree sparrow [or Passer montanus]

[10] Killing all the sparrows is only one item on the list of Mao's bad ideas. He followed it up with an attempt to produce this material in small backyard furnaces throughout the country.

ANSWER: steel