

MKULTRA - Tiebreakers

The Milton Keynes Ultimate Liaison of Trash and Academia

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1. The tallest of these structures was 33 feet tall and weighed 82 tons. Most of these structures are made of tufa, though some exist in trachyte, scoria and basalt, and the most important of these structures featured red scoria *pukao*, or topknots. Some later examples of these structures are made of wood, and are referred to as *kavakava*. The only seven of these structures to face the sea are aligned with the Sun's movement at equinoxes; these are at (*) Ahu Akivi. Most of these structures were constructed at Rano Raraku, where many are still partially buried. The construction of these structures stopped both due to deforestation and the rise to dominance of the 'birdman' cult. FTP, name these megalithic statues constructed by the indigenous Rapa Nui people of Easter Island.

Moai [accept Easter Island heads or Easter Island statues until 'Easter Island']

2. The title character in one work by this man paints a canvas with a single word while living on a platform suspended above his hallway, and one title character in another work by this man asks how many bombs it would take to blow up Moscow. A philosophical work by this writer of *Jonas, or the Artist at Work* and *The Just Assassins* concludes that "one must imagine [its titular figure] happy", while in a novel by this man, the structure of (*) Amsterdam is compared to the circles of hell. In one work by this man, one character misreads Kafka's *The Trial* as a mystery novel, as an implication of that novel's allegorical structure. In the most famous work by this man, the protagonist is disoriented by the sun, leading him to shoot a stranger on the beach. FTP, name the French-Algerian author of *The Myth of Sisyphus*, *The Plague*, and *The Stranger*.

ANSWER: Albert Camus

3. One reagent used to perform this type of reaction contains a five-coordinate iodine molecule and is named for Dess and Martin. Catalytic quantities of TEMPO are used along with NMO to effect this type of reaction. The combined action of DMSO and oxalyl chloride can cause alcohol to undergo this type of reaction in a procedure named for (*) Swern. An acidified solution of chromic acid called the Jones Reagent is a potent reagent for this process. The dark purple compound potassium permanganate is used to perform these reactions. This type of reaction takes place at the anode in electrolysis. Involving the loss of electrons, FTP name this type of reaction, contrasted with reduction.

ANSWER: Oxidation

4. A video game named for this organ and based on the *A.V.A.* role-playing game sees the player working for a corporate entity known as *Secreta Secretorum*, and an episode of *Babylon 5* named for this organ sees Colonel Ari Ben Zayn subject Ivanova to a psychic scan. Richard B. Riddick has had these organs surgically enhanced, a trait which helps him survive the events of (*) *Pitch Black*. The protagonist of *A Christmas Story* is repeatedly warned that his desired gift will cause the loss of this organ. A Hong Kong horror film named for this organ was remade in 2008 starring Jessica Alba. FTP, name this sensory organ, memorably seen being cut with a razor in *Un Chien Andalou*.

ANSWER: Eyes [accept The Eye, E.Y.E. Divine Cybermancy, or 'You'll shoot your eye out, kid']

5. One character in this novel repeatedly tells her husband to "leave the board out of it, and another character attempts to train a bird to undress her by pulling rings attached to her clothing. A hot-dog van in this novel has a sign saying "12 inches of Paradise!" stuck to it. In this novel, the address of the (*) Heart of Joy Bar is written on packs of pornographic postcards by the janitor Burma Jones, which results in the arrest of Lana Lee by undercover patrolman Angelo Mancuso. The protagonist of this novel lives with his mother Irene in New Orleans, and has a temperamental pyloric valve. For 10 points, name this picaresque novel following the life of Ignatius J Reilly, the only published novel by John Kennedy Toole.

ANSWER: A Confederacy of Dunces

6. DO NOT READ THIS TOSSUP TO WARWICK ALUMNI

American physicist John Huizenga suggested that a misinterpretation of this equation was the cause for Fleischmann and Pons' incorrect prediction of cold fusion. In the case of a membrane which is only permeable to one ion, the GHK equation reduces to this equation. The (*) Butler-Volmer equation reduces to this equation at zero current. The coefficient of the natural log of the reaction quotient in this equation is given as ' RT over zF ' which can be simplified at room temperature to 59 millivolts per decade for a one electron process. For 10 points, name this equation that determines the oxidation or reduction potential of a half cell, a fundamental equation of electrochemistry.

ANSWER: Nernst equation