

2016 OAC States – Round 3

Questions written by Ike Jose and Steven Wellstead

Category Round

American Literature: Give the following works or authors related to World War 1.

Team A: The World War 1 Battle of Caporetto is depicted in this novel, in which one character dies in Switzerland shortly after giving birth to a stillborn child.

ANSWER: A **Farewell to Arms**

Team B: This author's only novel, *The Enormous Room*, fictionalizes his experiences in a World War 1 POW camp.

ANSWER: E. E. **Cummings** [or Edward Estlin **Cummings**]

Tossup: During World War 1, this American author helped serialize James Joyce's *A Portrait of the Artist as a Young Man*. One of this author's poems is named for a man whose "true Penelope was Flaubert ("flow-BEAR")" and who "strove to resuscitate the dead art of poetry." Another of this author's poems tells Robert Browning to "hang it all;" that work is divided into sections such as "Fifth Decad," "Thrones," and "Pisan." This author of "Hugh Selwyn Mauberley" was once arrested for supporting the fascist government in Italy during World War 2. Name this expatriate author whose masterpiece is *The Cantos*.

ANSWER: Ezra Westin Loomis **Pound**

Mathematics: Pencil and paper ready. Questions in this category will deal with definite integrals. You will have 30 seconds for the team questions.

Team B: Integrate the $\sin(x)dx$ ("sine of x times D X") from 0 to 3π ("three pi").

ANSWER: **2** or **two**

Team A: Integrate the $\sin(x)dx$ ("sine of x times D X") from $-4\pi/3$ ("negative four pi over three") to 0.

ANSWER: **-1.5** or **negative one and one half** [accept clear knowledge equivalents]

Tossup: One of these mathematical statements named for Otto Holder gives a relationship between different kinds of integrals. The value of the dot product is bound by one of these statements named for Augustin Cauchy (KOH-shee) and Hermann Schwarz. That statement is used to prove one of these for triangles, which states that the sum of two sides of a triangle is always larger than the third. When graphing these statements, half-planes are fully covered. Name this kind of mathematical statement which uses a greater than or less than sign instead of equals.

ANSWER: **inequality** or **inequalities** [accept Holder's **inequality** or Cauchy-Schwarz **inequality**]

World History: Name these English or British monarchs.

Team A: The 1154 Treaty of Wallingford set the successor of this English king, who ruled during a period of civil war known as The Anarchy.

ANSWER: Stephen of Blois (blah)

Team B: Actress Dorothea Jordan was the longtime mistress to this monarch, who ruled as the final king of the House of Hanover until his 1837 death.

ANSWER: William IV (“the 4th”) [prompt on “William”]

Tossup: This monarch was briefly abducted as part of the Raid of Ruthven. Before becoming king, this ruler made a defense pact with his predecessor by signing the Treaty of Berwick. He failed in his attempt to arrange a marriage for his son, and future successor, via the so-called “Spanish Match.” This king escaped one assassination attempt thanks to a letter of warning sent to Lord Montague. The “Union of the Crowns” occurred with the accession of this ruler, who was targeted by Robert Catesby and Guy Fawkes in an assassination attempt known as the Gunpowder Plot. Name this first Stuart king, who commissioned a namesake translation of the Bible.

ANSWER: James I of England [or James VI (the “6th”) of Scotland; prompt on “James” or “James Stuart”; do not prompt on or accept “James VI”]

Fine Arts: Name these forms used in classical music.

Team B: Franz Schubert’s “Death and the Maiden” is an example of a piece of classical music composed for this ensemble, which also includes Bedrich Smetana’s (BED-rik SMEH-tah-nahz) “From My Life.”

ANSWER: string quartet [prompt on “quartet”]

Team A: Examples of these pieces include Alexander Scriabin’s “Black Mass” and Ludwig von Beethoven’s “The Hunt.” Another one of these works by Beethoven features the words “Quasi una fantasia” in its score.

ANSWER: piano sonata [prompt on “sonata”]

Tossup: The “table” type of this musical form features a single sheet of music placed between two musicians, who play the piece forwards and backwards at the same time. The minuet in Joseph Haydn’s (“HIGH”-dinz) “Fifths” string quartet is in this form. A chord consisting of D, A, B, F sharp, G, D, G, A, is repeatedly played in one of these pieces, which is often paired with a gigue (zheeg). A round is often called a “perpetual” type of this art form. Name this type of composition, which includes one by Johann Pachelbel (PAH-kul-bell) in the key of D.

ANSWER: canon [accept table canon or perpetual canon or Canon in D or Pachelbel’s canon]

Life Science: Identify the following model organisms.

Team A: This nematode model organism, which is a species of roundworm, was the first animal to have its genome sequenced.

ANSWER: *C. elegans* (EL-ih-gahns) [or *Caenorhabditis elegans*]

Team B: Insulin was artificially synthesized by manipulating the genome of this model bacteria, some varieties of which can produce vitamin K₂ (“K-2”).

ANSWER: *E. coli* [or *Escherichia coli*]

Tossup: In the mitochondria of these organisms, a tethering complex called ERMES (“E-R-M-E-S”) is used to transfer lipids. Aging proteins called sirtuins were first discovered in this group of organisms. Eduard Buchner won a Nobel Prize for isolating zymase from this organism, which he used to make “press juice.” Due to its simplicity, this was the first eukaryotic organism to have its genome completely sequenced. The model species (*) *S. cerevisiae* (seh-reh-VEE-see-ay) is an example of the “budding” type of this (**) fungus. Fermentation is carried out by what organism that is used by bakers as a leavening agent?

ANSWER: yeasts [accept budding yeasts; accept *Saccharomyces cerevisiae* before (*); prompt on fungus or fungi before (**)]

World Literature: Questions in this category will deal with the Argentine writer Jorge Luis Borges (HOR-hay loo-EESS BOR-hayss).

Team B: In this Borges short story, the narrator describes a seemingly infinite structure which contains endless permutations of books.

ANSWER: “The Library of Babel” [or “La biblioteca de Babel”]

Team A: In this other Borges short story, which takes place during World War 1, the German spy Dr. Yu Tsun (yo soon) conveys a message to his superiors by murdering a man just prior to his capture and ultimate execution.

ANSWER: “The Garden of Forking Paths” [or “El Jardin de senderos que se bifurcan”]

Tossup: Jorge Luis Borges translated this collection’s story “The Ruined Man who Became Rich Again Through a Dream” into Spanish. One story in this collection focuses on a cobbler named Ma’aruf (mah-ROOF). In one story from this collection, boiling oil is used by Morgiana to kill a group of robbers known as the Forty Thieves. One character in this collection encounters the Old Man of the Sea and mythical birds called rocs during his seven voyages. In the frame story for this collection, King Shahryar (SHAH-ree-ar) listens to the stories of the enchanting Scheherazade (shuh-HAIR-uh-ZAHD). Name this collection of folklore written in Arabic whose characters include Sinbad the Sailor, Ali Baba, and Aladdin.

ANSWER: The Thousand and One Nights or Arabian Nights [or Alf layla wa-layla; accept One Thousand and One Nights or The Book of the Thousand Nights and a Night or The Thousand and One Arabian Nights]

U.S. Government/Economics: Name these current U.S. Governors.

Team A: Mark Parkinson and Kathleen Sebelius were the two immediate predecessors of this Republican governor, who won a 2014 reelection over Paul Davis.

ANSWER: Sam **Brownback** [or Samuel Dale **Brownback**]

Team B: Tim Kaine and Bob McDonnell, the latter of whom was convicted in 2015 on corruption charges, were the two immediate predecessors of this Democratic governor, who arose to the position after winning a 2013 election against Ken Cuccinelli (KOO-chih-nell-ee).

ANSWER: Terry **McAuliffe** [or Terence Richard **McAuliffe**]

Tossup: While serving as governor, this man appointed Stephen Lachs as the first openly gay judge in the U.S. During his tenure as mayor, he oversaw the revitalization of Jack London Square. He won his current term as governor in 2014 by defeating Neel Kashkari. He succeeded a future U.S. president in his first stint as governor, which occurred between 1975 and 1983. In 2015, he issued an executive order that required a 25% reduction in water usage due to drought conditions in his state. Name this politician who, in 2011, succeeded Arnold Schwarzenegger as Governor of California.

ANSWER: Jerry **Brown** Jr. [or Edmund Gerald **Brown** Jr.]

Physical Science: Name these chemists.

Team B: Sodium and potassium were first extracted from soda ash and potash by this English chemist, who invented a namesake lamp for use in mining.

ANSWER: Sir Humphry **Davy**, 1st Baronet

Team A: Silicon and selenium were discovered by this Swedish chemist, who determined the atomic weights of many elements. He may be best known for developing the modern chemical formula notation, although he utilized superscripts instead of subscripts.

ANSWER: Jons Jacob **Berzelius** (bur-ZAY-lee-uss)

Tossup: This scientist defined a quantity equal to the cation charge divided by the cation coordination number. That quantity, the electrostatic bond strength, is used in a rule developed by this scientist stating that the sum of the electrostatic bond strengths of an anion equals the charge of that anion. That rule is one of five namesake rules for the ionic structures of crystals. This chemist, who infamously advocated for high dosages of Vitamin C, has won a Nobel Prize in the fields of both Chemistry and Peace. Name this 20th century American chemist who names the most traditional scale of electronegativity.

ANSWER: Linus **Pauling** [accept **Pauling**'s rules or **Pauling** scale]

World Geography: Name these island nations.

Team A: Port Vila is the capital of this Pacific Ocean island nation once known as New Hebrides (HEH-brih-deez). It is located just northeast of the New Caledonia archipelago.

ANSWER: Republic of Vanuatu [or Ripablik blong Vanuatu]

Team B: Nuku'alofa is the capital of this other Pacific island nation that is a part of Polynesia. It is located just southeast of Fiji.

ANSWER: Kingdom of Tonga [or Pule'anga Tonga]

Tossup: One bird species endemic to this island nation is the bee hummingbird, which can be sighted in such locations as the Vinales (vee-NAH-"lace") Valley and Zapata (zuh-POT-uh) Swamp. Its city of Moa is a primary hub for the mining of its large reserves of cobalt and nickel. The Gulf of Batabono (bah-tah-BAH-noh) separates this nation's largest island from the Isle of Youth. The Sierra Maestra Mountains run along the eastern end of this nation, which is at the western end of the Windward Passage. The Cayman Islands are due south of this nation, which is on the eastern side of the Yucatan Channel. Its namesake island is the largest in the Greater Antilles. Name this Caribbean island nation whose capital is Havana.

ANSWER: Republic of Cuba [or Republica de Cuba]

U.S. History: Name these cities.

Team B: This Southern city's Greenwood district, which was once known as the "Black Wall Street," was largely destroyed during a 1921 race riot that stemmed from an elevator encounter between a black man and white woman.

ANSWER: Tulsa, Oklahoma

Team A: Civil War general Benjamin Butler received the nickname "Beast" during his harsh military occupation of this other Southern city.

ANSWER: New Orleans, Louisiana

Tossup: In 2015, video footage was discovered showing the aftermath of this city's disastrous sinking of the SS *Eastland*. One event in this city resulted in the death penalty being issued by Judge Joseph Gary to a group of men that included Louis Lingg and Albert Parsons. In 1933, Giuseppe Zangara killed the sitting mayor of this city in his attempt to assassinate FDR; that mayor was Anton Cermak. The throwing of a bomb led to an 1886 riot in this city, which later saw rioting while it hosted the 1968 Democratic National Convention during the mayorship of Richard Daley. The Haymarket Square riot occurred in what Midwest city whose great 1871 fire was not actually started by Mrs. O'Leary's cow?

ANSWER: Chicago, Illinois

Alphabet Round – Letter D

1. 7th century BC ruler of Athens best remembered for his harsh code of laws.
2. 2/6 is an example of this kind of meter, in which there are two beats per a measure.
3. Alkenes feature this kind of bond, in which four electrons are shared.
4. **(MULTI-WORD ANSWER)** – The decadence of Hollywood is satirized in this Nathanael West novel, which follows the painter Tod Hackett.
5. In languages like Latin, this “case” is used to indicate the indirect object.
6. Russian legislative assembly first established in 1906 by Nicholas II.
7. In a blood pressure reading such as 120/80, this kind of blood pressure is given by the number “80.” It represents the pressure in arteries when the ventricles are relaxed.
8. Christopher Marlowe wrote a play about this “Queen of Carthage,” who is unable to persuade Aeneas to stay with her; the play ends with her suicide.
9. Of the three orders of classical architecture, this one features columns that are unadorned.
10. NFL Sunday Ticket is provided by this satellite television company that was acquired in 2015 by AT&T for a price of over \$48 billion.
11. American pilot who commanded a namesake bombing “raid” of Tokyo, Japan in April 1942.
12. In mathematics, this term describes the affine transformation which either scales up or scales down the size of a shape.
13. In Indian religions, this tough to translate word sometimes means the “cosmic order” that upholds the world. The wheel on India’s flag symbolizes this concept.
14. German artist who depicted the horrors of World War I in his 1923 painting *The Trench*.
15. **(TWO WORD ANSWER)** – Pavel Chichikov “purchases” the names of serfs who has died to defraud the government in this humorous novel by Nikolai Gogol.
16. Name of the land-holding lords of medieval Japan.
17. The “moment” of the “electric” type of this configuration is a measure of polarization. The simplest example of this kind of configuration is a single positive charge separated from a single negative charge.
18. **(TWO WORD ANSWER)** – This Latin phrase indicates the cast of characters and the roles used; it often immediately appears before the text of a play.
19. In Greek mythology, the collective name used to identify the twin brothers Castor and Pollux.
20. “Gap” along the Panama-Colombia border which divides the Pan-American Highway into two sections.

Alphabet Round – Letter D Answers

1. **Draco** (DRAY-koh) [or **Drakon**]
2. **duple** [do not accept or prompt on “double”]
3. **double** bond
4. *The **Day of the Locust*** (MULTI-WORD ANSWER)
5. **dative** case
6. **duma** (DOO-muh)
7. **diastole** or **diastolic** pressure
8. **Dido** [accept ***Dido**, Queen of Carthage*]
9. **Doric** order
10. **DirecTV**
11. Jimmy **Doolittle** [or James Harold **Doolittle**; accept **Doolittle** raid]
12. **dilation** [accept word forms such as **dilate**]
13. **dharma** (DAR-muh) [or **dhamma**]
14. Wilhelm Heinrich Otto **Dix**
15. ***Dead Souls*** (TWO WORD ANSWER)
16. **daimyo** (“DIME”-yoh)
17. **di·pole**
18. ***dramatis personae*** (DRAH-mah-teess per-SOH-nye) (TWO WORD ANSWER)
19. **Dioscuri** (“die”-uh-SKOO-ree) or **Dioskouroi** (“die”-uh-SKOO-roy)
20. **Darien** Gap [or Tapon de **Darien**; accept **Darien** region or other equivalent answers]

Lightning Round

1. In 2003, NASA launched the CHIPS (“chips”) satellite to study the “extreme” form of this phenomenon. The Rayleigh-Jeans (RAY-lee-JEENZ) law predicts that a blackbody emits this type of radiation with infinite power, causing a namesake “catastrophe.” This type of radiation, which is used to detect counterfeit currency, has a wavelength around 10 to 400 nano-meters and is used in blacklights. Name this type of radiation which causes sunburns and has a frequency between X-rays and visible light.

ANSWER: ultraviolet radiation or UV radiation [accept ultraviolet light or UV light]

2. The study of this concept is known as hamartiology. The “philosophical” type of this concept was denounced as erroneous by Pope Alexander VIII (“the 8th”). In Catholicism, concupiscence (konk-yoo-PIH-sinss) exists because of the presence of one type of this concept that was rejected by adherents of Pelagianism (peh-LAY-jee-un-izm). In *Summa Theologica*, St. Thomas Aquinas (uh-KWYE-nuss) discussed the difference between these actions “of omission” and “of commission.” Reconciliation results in the forgiveness of what offenses against God which include “seven deadly” types? ANSWER: sin [accept philosophical sins or original sin or sins of omission or sins of commission or seven deadly sins]

3. In one poem, this author writes “In faith, I do not love thee with mine eyes” since “they in thee a thousand errors note.” This man’s major collection of poetry is mysteriously dedicated to “H. H.,” whose true identity is not known. He once wrote “Rough winds do shake the darling buds of May” in a poem about a woman who is “more lovely and temperate” than the title period of time. Name this English writer who compared his mistress to a “summer’s day” in his namesake 1609 collection of sonnets.

ANSWER: William Shakespeare

4. This book ends with a soldier describing “a pilgrimage of a thousand years of happiness” after he returned from the afterlife. “The Myth of Er” is found in the last portion of this book, which uses the “Analogy of the Divided Line” to explain the difference between the visible world and the “intelligible world of Forms.” This work consists of dialogue with Glaucon (GLAO-kahn) and Thrasymachus (thruh-SIMM-uh-kuss). Socrates discusses an ideal state in what 4th century BC work of political philosophy by Plato?

ANSWER: *The* Republic [or Politea or *De* Republica]

5. The man who carried out this event derisively called one of his lawyers “Percy Fourflusher.” This event was unsuccessfully performed ten years beforehand by Izola Curry. The words from an Aeschylus (ESS-kuh-luss) poem were recited during a speech that was given in Indianapolis shortly after this event. This event occurred during a strike by sanitation workers and one day after its target gave the “I’ve Been to the Mountaintop” speech. The Lorraine Motel was the site of what 1968 event carried out by James Earl Ray in Memphis?

ANSWER: assassination of Martin Luther King Jr. [accept clear knowledge equivalents that mention Martin Luther King Jr. and the concept of a shooting; accept MLK or Michael King Jr. in place of Martin Luther King Jr.]

6. This technique can be used to show that some idempotent matrices are parametrized by a circle. Often times, it is easier to factor out a coefficient to make the trinomial monic before doing this operation to solve it. The quadratic formula was derived by using this technique, in which a three term polynomial is rewritten to be of the form “a times the quantity x plus h squared, plus the constant k.” Name this technique for solving quadratic equations.

ANSWER: completing the square [accept answers that mention squares and word forms of complete]

7. In one scene from this artwork, a man carries a bundle of wood behind someone who straddles a dead ram that has had its throat slit. In one corner of this work, two women carry a tray with a decapitated head in the immediate aftermath of the beheading of Holofernes (hah-luh-FUR-neeZ) by Judith. The edges of this work feature separate depictions of five sibyls and seven prophets. Near its center, a nude man reaches out his left hand towards the fingertip of God. *The Creation of Adam* is part of what large painting at the top of a Vatican chapel?

ANSWER: Sistine chapel ceiling [accept similar answers that include Sistine and ceiling; prompt on partial answers]

8. In one poem, this author calls the title entity “the tale of common things” and the “tawdry rule of kings.” That poem by him was written in response to the Spanish-American War and imagines the U.S. managing her “new-caught sullen people / half-devil and half-child.” In another poem by this writer, the speaker tells “the finest man I knew” that “You’re a better man than I am.” Name this British author of “The White Man’s Burden” and “Gunga (GUN-guh) Din.”

ANSWER: Joseph Rudyard Kipling

9. Milton Erickson developed a form of psychological therapy based on this concept, which Paracelsus (par-uh-“SELL”-siss) may have utilized by making use of magnets. Clark Hull found that this phenomenon is not at all related to sleep in a book about this “and suggestibility.” Sigmund Freud suggested that it could be used to cure hysteria. Name this state in which humans are made easily responsive to outside stimuli, and which magicians may induce using a swinging watch.
ANSWER: hypnosis [accept word forms; accept Hypnosis and Suggestibility: An Experimental Approach]

10. Foreign ownership rights in this country were addressed as part of the Bucareli Treaty. Ousting one ruler of this country was the goal of the Plan of Ayutla (“eye”-OOT-luh). One U.S. Ambassador to this nation was Henry Lane Wilson, who was involved in a coup known as the Ten Tragic Days. The Punitive Expedition was led by John Pershing into this country during a revolution that saw Francisco Madero elected as president after the ousting of Porfirio Diaz. Name this home of the revolutionary Pancho Villa (VEE-yah).
ANSWER: Mexico [or United Mexican States or Estados Unidos Mexicanos]

11. The protagonist of this film learns the history of the McKittrick Hotel at the Argosy Book Shop. In this film, Kansas native Judy Barton is paid by Gavin Elster to impersonate his wife while claiming to be possessed by the spirit of Carlotta Valdes. The camera effect known as the “dolly zoom” was first used in this 1958 film, in which two women die by falling from a mission bell tower south of San Francisco. Name this Alfred Hitchcock film in which Jimmy Stewart plays a detective with a fear of heights?
ANSWER: Vertigo

12. The Wendelstein 7-X produced one of these substances for a quarter of a second, showing promise for their creation in stellarators or tokamaks in nuclear fusion research. In some regions, one of these substances is comprised of quarks and gluons. They are found on Earth in the form of the aurora borealis and neon signs. An ionized gas comprises this substance, which is the phase of matter most of the visible universe is in. Name this “fourth state of matter.”
ANSWER: plasmas

13. One character in this story recalls a man named Edgar Atkins Teagarden, who died wealthy because he purchased Coca-Cola stock. The main characters in this story stop at Red Sammy’s restaurant and see Stone Mountain; later they encounter Hiram and Bobby Lee, who are escaped convicts, after crashing their car. In this story, a criminal known as the Misfit kills a grandmother and the rest of her family. Name this short story by Flannery O’Connor.
ANSWER: “A Good Man is Hard to Find”

14. This city’s Sanctuary of Tophet (TOH-fet) may have been used for child sacrifices. An inability to pay its troops led to the Mercenary War, in which this city was led by Hanno the Great. This city lost the Battle of the Metaurus, which included the death of its general, Hasdrubal Barca. Cato the Elder ended many speeches by calling for the destruction of this city, which unsuccessfully used war elephants while fighting Scipio Africanus at the Battle of Zama. Name this African city-state that fought Rome in the Punic Wars.
ANSWER: Carthage [or Carthago or Kart-hadasht]

15. The mythology scholar George Dumézil (“DUE”-muh-zee) compares this character to the demonic Syrdon (“SEER”-dahn) in Caucasian lore. This god disguised himself as the giantess Thokk and refuses to weep for a god that he had killed. This son of Farbauti (FAR-bau-tee) fathered Narfi (NAR-fee) with Sigyn (SIG-ihn). With the giantess Angrboda (“anger”-bohduh), he fathered the death goddess Hel and the monstrous wolf Fenrir (FEN-reer). He earlier caused the death of Baldr (“BALL”-dur) using mistletoe. Name this trickster god from Norse mythology.
ANSWER: Loki (LOH-“key”) [or Loptr or Hvedrungr]

16. This is the largest archipelago whose natives are the Unangan (un-ANG-gihn) people. It has seen frequent volcanic eruptions from Mount Cleveland, which is part of its Islands of Four Mountains. The U.S. conducted nuclear testing on Amchitka (am-CHIT-kuh) Island within this archipelago, which contains the Rat and Fox Islands. During World War 2, the Japanese successfully invaded its island of Attu (AH-too), which is at the south end of the Bering Sea. Name this U.S. island group that stretches for over 1,000 miles off the southwest coast of Alaska.
ANSWER: Aleutian Islands [or Aleutians]

17. This phenomenon's namesake "rebound" occurs after using drugs such as benzo·diapenes. PGO ("P-G-O") waves are phasic field potentials emitted when this phenomenon is present, which is the subject of the scanning hypothesis of "vivid imagery." This phenomenon, which is caused by saccades (suh-KAHDZ), occurs during paradoxical sleep, in which dreams become incredibly memorable. Name this phenomenon known as (*) REM (rehm), in which there is a random motion of the ocular muscles.

ANSWER: **rapid eye movement** sleep [accept **REM** sleep before (*); prompt on partial answers]

18. In his lifetime, this composer wrote 15 guitar quartets. A set of works by this composer includes a section in which in the use of the A and E strings allows the central instrument to imitate a bagpipe; that work by this man opens with a section nicknamed "The Arpeggio (ar-PEH-jee-oh)" since a "ricochet" effect is used across the strings. Sergei Rachmaninoff (rock-MAHN-ih-nahff) wrote a rhapsody on one of this composer's themes. Name this 19th century Italian violin virtuoso known for his 24 caprices (kuh-PREESS-ez).

ANSWER: Niccolò **Paganini**

19. This novel's narrator encounters a man who despises Cicero since he doesn't care if Cicero defends "Rabirius or Cluentius." While two different kings are playing Te Deums, this novel's narrator escapes from evil Bulgarians; shortly afterwards, he is expelled from the Castle of Thunder-ten-Tronckh. This novel's title character makes a voyage to El Dorado and later finds that his lover, Cunegonde (KYOO-nuh-gahnd), has aged terribly. Name this short satirical novel by Voltaire.

ANSWER: **Candide** (kan-DEED); or, *Optimism* [or **Candide**, *ou l'Optimisme*]

20. This battle was described as "fate's great alarm call" in the Sportpalast speech. A relief mission named Operation Winter Storm was led by Erich von Manstein during this battle, which saw heavy fighting at Mamayev Kurgan hill. This battle included the implementation of Operation Uranus. This battle ended in the basement of a department store when Friedrich Paulus surrendered Germany's 6th Army. The turning point in the Eastern Front of World War 2 was what extremely bloody battle fought in 1942 and 1943 in present day Volgograd?

ANSWER: Battle of **Stalingrad**