Round 5: QOTC IX: March 25, 2000
Rutgers University A (Ian MacAllen, Edward De Guzman)

1. His goal in all of his writings was to be a prophet. Born in 1795 in Scotland, his literary circle included John Stuart Mill and Leigh Hunt. Mill accidentally burned a partial manuscript of his Sartor Resartus, which later inspired Ralph Waldo Emerson to travel across the Atlantic to meet him. FTP, name this Victorian author of On Heroes, Hero-Worship, and the Heroic in History.

## ANSWER: Thomas _CARLYLE_

2. In 672 AD it was part of the Crivijaya Kingdom. Later, it belonged to the Majapahit Kingdom for 200 years, until 1520 . In the last quarter of the 16th century, the Portuguese overthrew Sultan Baabullah of Ternate to gain control of the island. It wasn't until May 28, 1974 that Colonel Fernando Alves Aldela allowed people on the island to form their own political parties. FTP, name this island, whose eastern region has recently appeared in the news worldwide.

ANSWER: _TIMOR_
3. Despite its desirable properties of hardness and lightness, its production remains quite low. Large deposits are found in geologically active regions such as the Mojave Desert and Turkey. It's most important use is as a component of pottery glazes, but it is also used as a semiconductor and as a component of fertilizers. In its amorphous form it is a dark brown or black powder. FTP, name this element with atomic number 5 .

ANSWER: _BORON_
4. In 1909, at the age of 15 , he left high school to begin his studies at the National Academy of Design and the Art Student's League, where he worked under George Bridgeman. He was soon hired as art director for Boys' Life, and he freelanced for many other publications. During World War II, he painted the famous Four Freedoms posters at the behest of Franklin Roosevelt. FTP, name this artist, famous for his depictions of American life, who painted 321 covers for the Saturday Evening Post.

## ANSWER: Norman _ROCKWELL_

5. One American economic consultant has referred to it as "Persian Gulf East," in reference to potential natural gas reserves here. The Awami League is led by current Prime Minister Sheik Hasina, daughter of the country's first elected leader, who was gunned down by assassins. The other major political party in the country is led by Khalida Zia, whose father, General Ziaur Rahman, praised and rewarded the assassins of Hasina's father. Recently President Clinton made the first visit by an American President to this country. FTP, name this south Asian country, once called East Pakistan.

## ANSWER: _BANGLADESH_

6. The daughter of king Belus of Tyre, her husband was killed by her brother, Pygmalion, king of Tyre, and she fled west, purchasing her new domain from Iarbus. When Iarbus threatened her with war unless she married him, she killed herself, but the city she founded became a major trading center of the Western Mediterranean. FTP, name this egendary founder of Carthage, who Virgil says killed herself when Aeneas abandoned her.

ANSWER: _DIDO_
7. Its highest point is Monts Bagzane, located in the north of the country which also harbors large high-grade uranium deposits and is populated by Tuareg and Fulani nomads. Hausa and Djerma compose most of the population in the southern savannahs of this country, whose principal towns include Zinder, Maradi and Agadez. Bordering Lake Chad on the southeast a river of the same name flows through the southwest. FTP, name this African country whose capital is Niamey.
8. He began his career at an early age, studying piano and alto saxophone from age 11 and eventually taking up the tenor saxophone. He grew up idolizing such performers as Charlie Parker and Dizzy Gillespie and eventually came to be as prominent and influential as either of them. FTP, name this tenor saxophonist, still alive today, whose most famous recordings include St. Thomas and The Bridge.

## ANSWER: Sonny _ROLLINS_

9. It can explain why a sound wave bends around the edges of a doorway, by describing how a wave front that exists at one instant gives rise to the wave front that exists later on. More specifically, it states that all the points of a wave front originate secondary waves, the aggregate effect of which is to reconstitute the primary disturbance at the subsequent stages of its advance, thus accomplishing its propagation. FTP, name this principle of wave theory proposed by a Dutch scientist in 1690.

ANSWER: _HUYGENS'_Principle
10. It took seven long years to take it from its initial concept to its first public performance. The composer's mentor, Stephen Sondheim, arranged a grant to fund it in its early stages, and it was first performed at the New York Theater Workshop. Songs include "Out Tonight", "I Should Tell You", and "Light My Candle". FTP name this 1996 musical, whose creator was misdiagnosed with food poisoning and stomach flu before dying of an aortic aneurysm on the night of the last dress rehearsal.

ANSWER: _RENT_
11. Headquartered in Washington, DC, it had 30 member countries when it was founded in 1945 but currently has over 150. It was created to promote the growth of world trade by setting rules for the maintenance of fixed exchange rates. It also took on the job of collecting and standardizing international economic data. FTP, name this economic entity created by the Bretton Woods agreement.

## ANSWER: _INTERNATIONAL MONETARY FUND_or _IMF_

12. According to legend, it was founded around 860 B.C. by Prince Bladud, the father of King Lear, after he stumbled into a stream and was cured of his leprosy and by the $15^{\text {th }}$ century it was noted for its Wool Trade. The Celts dedicated its springs, which remain at the constant temperature of $47{ }_{j} \mathrm{C}$, to the god Sul, and when the Romans arrived they named the city Aquae Sulis. FTP, name this English city famous for the curative properties of its hot springs.

ANSWER: _BATH_
13. On January 29, 2000, 130 delegates convened in Montreal, Canada. Their meeting resulted in a treaty allowing nations to ban certain products that in recent months have come under controversy. American industry feared the ban greatly, as the treaty may restrict the export of farm products, a major American export. FTP, give the broad name for seeds, microbes, and plants affected by this treaty.

ANSWER: _GENETICALLY ENGINEERED_ Products (accept variants--MODIFIED,ENHANCED, etc.)
14. In this religion, the soul is judged on the Bridge of discrimination, and the tenets of this religion are accepted and preached by the Dasturjees and religious teachers in India. All of its scriptures, which are written in the sacred Avestan language, are sacred, including the Gathas, Yashts, and the Vendidad. It believes in the coming of the Saoshyant to defeat evil and further righteousness and good is caused by Spenta Mainyu and Angra Mainyu, emanations of Ahura Mazda. FTP name this religion of ancient Persia.

## ANSWER: _ZOROASTRIANISM_ (also accept MAZDAYASNI ZARATHUSHTRI)

15. Dr. Paul Proteus, a member of the ruling class of engineers, becomes unhappy with his life and the state of society, and he becomes the leader of a revolutionary organization known as the Ghost Shirts. They start a rebellion, but it fails when Proteus and his friends discover their followers making gadgets out of the machines they have been destroying. The setting for these events is Ithaca, New York, where automated machines dominate the workplace and the home. FTP, name Kurt Vonnegut's first book, titled for an automated instrument.

## ANSWER: _PLAYER PIANO_

16. When he assumed the throne in 481 , he was only 15 years old. The kingdoms of the Alemanni, the Burgundians, and the Visigoths in Gaul fell to him between 486 and 511. However, the most significant event of his career allowed him to turn his wars of aggression into holy wars. FTP, name this king of the Franks who compared himself to Constantine and contributed to the Christianization of Europe after he converted to Christianity.
17. Its name was given to it by the anatomist Vesalius because he thought it produced a lubricating mucus. It sits protected within a saddle in the sphenoid bone called the sella turcica. The function of its intermediate lobe is not yet completely understood, but it is known to control the production of skin pigment in some of the lower vertebrates. FTP, name this gland, connected to the hypothalamus by a short stalk and responsible for the regulation of the other glands of the endocrine system as well as growth.

ANSWER: _PITUITARY_gland
18. This movement in cognitive science hopes to explain human intellectual abilities using artificial neural networks. Its widely held view is that the mind is something akin to a digital computer processing a symbolic language, but the basic ideas of the theory are quite old, and can even be traced back to Aristotle and his ideas on mental associations. FTP, name this movement, which philosophers have become interested in because it promises to provide an alternative to the classical theory of the mind.

## ANSWER: _CONNECTIONISM_

19. Although born to Jacques de Secondat in Bordeaux in 1689, this man was sent to the an Oratorian school at Tuilly with two orphan cousins in 1700 . He began studying law to please his rich uncle, from whom he would inherit his wealth and his title. He was admitted into the Academy in 1728, following a dispute over his "Persian Letter," and entered the Royal Society in London a few years later. His masterwork, written over a period of twenty years, introduced the ideas of the three branches of government and a system of checks and balances. FTP, name this French baron, the writer of "The Spirit of Laws."

## ANSWER: Charles-Louis de Secondat, Baron de la Brede et de _MONTESQUIEU_

20. He was reputed to be an extreme introvert, austere, humorless, and unpopular. Dubbed "Spider of the Escorial" because he seldom left his palace. Paralyzed by indecision, his reign marked the decline of Spanish power, his forces nevertheless defeated the French at Saint-Quentin and Gravelines. His third wife was Princess Elizabeth of France, who had been bethrothed to his son Don Carlos. His half-brother, John of Austria, defeated the Turks at Lepanto in 1571. FTP, name this son of Charles V, the man who sent the Spanish Armada to England.

ANSWER: King _PHILIP II_ of Spain
21. Chad Linus is the shy one and really wants a Seadoo. Doug Linus is the big brother type and was in a band called Pegasus. Mickey Parke is the bad boy and tends to get into fights. Jason "Q.T." McKnight is the little guy who likes to sneak into clubs. Finally, Jerry O'Keefe is the heartthrob and leader of the group. FTP, name this group thrown into the public eye by MTV whose songs include "Say It, Don't Spray It" and "U+Me=Us (Calculus)"
ANSWER: _2GETHER_

## BONUS

1. It's time for everyone's favorite author, Thomas Hardy. From the given description, give the name of the character from Tess of The D'Urbervilles FTPE.
[10] The father of Tess, and first character the reader is introduced to in the novel.
ANSWER: John _DURBYFIELD_or_SIR JOHN_
[10] Tess's cousin and the father of her child.
ANSWER: _ALEC D'URBERVILLE
[10] The regretful name of Tess's bastard child, who dies shortly after his birth.
ANSWER: _SORROW _
2. You've just been given a circuit diagram to analyze for physics. Fortunately, you know what to do.
[10] FTP, whose set of two rules will help you analyze the circuit?ANSWER: Gustav _KIRCHOFF_
[10] FTP, name the rule which relates this namesake part on a circuit where a number of wires are connected together ANSWER: _JUNCTION_rule
[10] FTP, name this rule which states that the number of potential drops equals the sum of potential rises.ANSWER: _LOOP_ rule
3. Name these figures from ancient history FTPE:
[10] This tyrant of Ephesus sparked a revolt in 499 as his involvement in the independence of Ephesus inspired other cities on the Ionian coast to fight for independence from Darius I's rule.
ANSWER: _ARISTAGORAS_
[10] This Persian emperor attempted to punish Athens for aiding Aristagoras's results by conquering the Greek mainland. His forces were defeated at Marathon.
ANSWER: _DARIUS I_
[10] Darius's son, he attempted a second invasion of Greece but was defeated at Salamis and the Greeks finished his army off at Plataea
ANSWER: _XERXES I_
4. Answer the following questions about Great Britain's geography.
[10] For ten points, what island is located in the English Channel just south of Portsmouth.?ANSWER: Isle of _WIGHT
[10] For ten points, what county contains the cities of Penzance and Falmouth and is the southernmost county in England?
ANSWER: _CORNWALL
[10] For the last ten points, what Scottish mountain range has the Dee and Spey rivers running through it?
ANSWER: _GRAMPIAN_Mountains
5. 30/20/10 Name the composer from the given operas.
[30] La Rondine, Il Trittico
[20] Manon Lescaut, La Fanciulla del West
[10] La Boheme, Madama Butterfly
ANSWER: Giacomo _PUCCINI_
6. FTPE, answer the following about the complex numbers.
[10] Leibniz thought that the pure imaginary numbers had no square roots. Show that he was wrong by giving, F5PE, both square roots of 2 i .
ANSWER: _1+i_(accept $\mathrm{i}+1$ ) and _-1-i_(accept -i-1)
[10] FTP, express $\mathrm{i}^{\wedge}(-2 \mathrm{i})$ (pronounced " $\overline{\mathrm{i}}$ to the negative 2 i power") as a real number.
ANSWER: _e^Pi_ (pronounced "e to the pie" or "e to the pie power")
[10] Hamilton gave a generalization of complex numbers, using a group of degree 8. FTP, name that group.
ANSWER: _QUATERNION_group
7. Let's see how much you know about Superman and his biological family. FTPE, give:
[10] Superman's Kryptonian name.
ANSWER: _KAL-EL_
[10]: Superman's father's name
[10]: Superman's mother's name
ANSWER: _JOR-EL_
ANSWER: _LARA_-
8. You will be the given the second line from one of Shakespeare's sonnets. Give the first line FTPE.
[10] Thou art more lovely and more temperate:
ANSWER: _SHALL I COMPARE THEE TO A SUMMER'S DAY?
[10] I all alone beweep my outcast state
ANSWER: _WHEN, IN DISGRACE WITH FORTUNE AND MEN'S EYES,_
[10] Coral is far more red than her lips' red;
ANSWER: _MY MISTRESS' EYES ARE NOTHING LIKE THE SUN;_
9. Answer these three Odin-related questions from Norse mythology FTSNOP.
[10] FFPE, give the names of Odin's horse and spear.
ANSWER: _SLEIPNIR_and_GUNGNIR_
[10] FFPE, give the names of Odin's two ravens.
ANSWER: _HUGINN_ and _MUNINN_
[10] Name this son of Odin, who takes revenge on Fenris for his father's death.
ANSWER: _VIDAR_
10. Given a description name the Russian ruler FTPE:
[10] Premier of the Soviet Union after Stalin's death in 1953, he was forced to resign by Krushchev in 1955.
ANSWER: _MALENKOV_, Georgy Maksimilianovich
[10] The first Empress of all Russia, she was the second wife of Peter the Great. Upon his death, she gained the title but real political power remained in the hands of Menshikov and the Supreme Privy Council.
ANSWER: _CATHERINE I
[10] He was the eldest son of Alexander III. After abdicating the throne, he remained with the royal family in Czarkoe Selo before they were all shot in Ekaterinburg.
ANSWER: _NICHOLAS II_
11. Name the following chemical processes regarding physical states FTSNOP
[5] a solid becomes a liquid
ANSWER: _MELTING_or_FUSION_
[10] a solid becomes a vapor
[15] a vapor condenses directly to a solid ANSWER: _DEPOSITION_
12. FTPE, name the type of financial bond from a description.
[10] This bond is issued by state and local governments to finance expenditures on schools, roads, and other large programs. Their interest payments are exempt from federal income tax.
ANSWER: _MUNICIPAL_bonds
[10] This bond pays the owner a fixed interest payment every year until the maturity date, when a specified final amount is repaid. ANSWER: _COUPON_bonds
[10] This bond is bought below its face value and the face value is repaid at the maturity date. Unlike a coupon bond, it does not make any interest payments.

ANSWER: _ZERO-COUPON_bond or _DISCOUNT_bond
13. For five points for two, ten points for four, twenty for six, or 30 for all correct, name the eight British rulers of the house of Angevin, also known as the Plantagenets.
ANSWER: _HENRY II_,_RICHARD I_(or_RICHARD THE LIONHEARTED_or_RICHARD COEUR DE LEON), JOHN_-Soft-Sword, _HENRY III_,_EDWARD $\bar{I}_{-}$(or_EDWARD LONGSHANKS_), EDWARD II_, EDWARD III_, _RICHARD II_-
14. Name the Shakespeare play given characters, FTPE.
[10] Mariana, Angelo, Isabella, Claudio, Juliet
ANSWER: _MEASURE FOR MEASURE
[10] Marina, Thaisa, Cleon, Lysimachus, Helicanus
ANSWER: _PERICLES_, Prince of Tyre
[10] Menenius Agrippa, $\overline{\text { Sicinius, Brutus, Volumnia, Virgilia }}$
ANSWER: _CORIOLANUS_
15. 30-20-10, name the artist from works.
[30] General Patricio Lynch, Whistler Muse
[20] Walking Man, The Hand of God
[10] The Burghers of Calais, The Thinker
ANSWER: Auguste _RODIN_
16. Given a description of an element found in relatively large amounts in the body, name it FTPE:
[10] This element exerts osmotic pressure in fluids to maintain normal water balance. With potassium it is responsible for transmission of nerve impulses.
ANSWER: _SODIUM_
[10] This element is found crucial to protein structure, though is only found in the amino acids cysteine and methionine.
ANSWER: _SULFUR
[10] This element is involved in a large number of enzyme functions, assists in protein synthesis, and promotes activity of the thyroid hormone.
ANSWER: _MAGNESIUM_
17. According to the Kubler [KOO-bler]-Ross Theory, there are five psychological stages of dealing with the dying process. For five points each name them, with a five point bonus for all correct.
ANSWER (in order): _DENIAL_or_ISOLATION_,_ANGER_,_BARGAINING_or _NEGOTIATION_, DEPRESSION_, and _ACCEPTANCE_(Accept equivalents)
18. Identify the following from $19^{\text {th }}$ century British India FTPE.
[10] In the first years of the $19^{\text {th }}$ century, this colonel and later a general took Seringapatnam and gained a decisive victory over the Maharathas at Assaye in 1805, though he later became more famous for exploits in Europe.
ANSWER: Duke of _WELLINGTON_or Arthur_WELLSLEY_
[10] After the Anglo-Sikh wars of $184 \overline{5}-1846$ and $\overline{1} 848-1849$, the British annexed this kingdom, now split between India and Pakistan. ANSWER: _PUNJAB
[10] This large-scale disturbance lasted from 1857 to 1859 and prompted the dissolution of the British East India Company in favor of British Imperial rule over India.
ANSWER: The _INDIAN MUTINY_ or the _SEPOY REBELLION_
19. Given the type of republic its official name says it is, name the South American country for fifteen points, or for ten if you need another clue.
[15] - Cooperative Republic
[10] - The only South American country where English is widely spoken, it is home to large bauxite and manganese deposits.
ANSWER: _GUYANA
[15] - Oriental Republic
[10] - Fought over by Argentina and Brazil, it gained independence in 1828. The second smallest country in South America, its population is predominantly of European descent.
ANSWER: _URUGUAY_
20. For ten points each, identify the band from the bassist.
[10] Jeff Ament
ANSWER: _PEARL JAM_
[10] Robert Sledge
ANSWER: _BEN FOLDS FIVE_
[10] Robert DeLeo
ANSWER: _STONE TEMPLE PILOTS_
21. Given United States President's educational background and last government
position before he became President, name him FTPE:
[10] Harvard College class of 1940; United States Senator 1953-1961
ANSWER: John F. _KENNEDY
[10] Eureka College class of 1932; Govemor of California, 1966-1974
ANSWER: Ronald REAGAN
[10] Georgetown University class of 1968; Oxford University (1968-1970); Yale University Law School (1973); Governor of Arkansas 1978-80, 1982-92
ANSWER: William Jefferson _CLINTON

Round 6: QOTC IX: March 25, 2000
Johns Hopkins
Questions by Fong Hsu, Adam Fine, Jonathan So.
Tossups

1. Initially trained as an illustrator, he studied painting from 1901-1916 under Robert Henri. Like the painters of the Ashcan School, he painted the commonplaces of urban life, but unlike their loosely organized, vivacious paintings, his "House by the Railroad" and
"Room in Brooklyn" show still, anonymous figures and stern geometric forms within snapshot-like compositions. FTP, name this American artist who used light to insulate persons and objects in space, most famously remembered for his 1942 work "The Nighthawks".

Answer: Edward _HOPPER_
2. It will be preceded by three years of winter known as the Fimbul winter, and it is fully described in the poem Voluspa and it was known by the Germans as Gotterdammerung. Fought on the battlefield of Vigrid, Surtur will lead the giants against the Aesir, and at their coming, Gjallarhorn will be sounded by Heimdall, who will be slain be Loki. FTP, name this event where Odin and Thor are also killed, the "twilight of the gods" in Norse mythology.

Answer: _RAGNAROK_
3. Events in this novel include a retelling of an Aesop fable about an "Ondt" and a "Gracehoper", while Burrus and Caseous plot to overthrow a Caesar salad. It opens in the middle of a sentence, and the ending is the start of the same sentence, which is just one example of the work's circular structure. FTP, name this experimental novel which tries to recreate the feeling of a dream, the last novel by James Joyce.

Answer: _FINNEGAN'S WAKE_
4. Currently led by Prime Minister Mahendra Chaudhry and President Ratu Sir Kamisese Mara, who was elected by the Great Council of Chiefs, it consists of over 800 islands and islets in the southwestern Pacific which surround the Koro Sea. Principal islands include Taveuni, Kadavu, Viti Levu and Vanua Levu. It became independent in 1970 and the next year joined the five-island South Pacific Forum. FTP, identify this nation whose capital is Suva

Answer: _FIJI_
5. The E type of this family of proteins is involved in allergic reactions, while the A type is found on mucosal surfaces. The $M$ type is found as a pentamer, and is critical for primary immune response, as it has a high affinity. The most abundant form, however, is the G type, which is composed of two light chains and two heavy chains, and is commonly known as an antibody. FTP, name this class of proteins abbreviated Ig.

Answer: _IMMUNOGLOBULINS_(prompt on early antibody)
6. It may have been used by the Venetians against Robert Guiscard in 1081 and in 812 the Bulgar khan Krum captured some canisters when he took Mesembria. In his De Administratio Imperio, Constantine VI counsels his son the future Romanus II against revealing its secrets, and it was as effective against the Ottomans in the $15^{\text {th }}$ century as it was against the Arabs in the $7^{\text {th }}$. FTP, name this secret weapon, whose composition remains unknown, used effectively at sea by the Byzantine Greeks.

Answer: _GREEK FIRE_
7. Among this man's achievements include three radio documentaries entitled "The Idea of North", "The Latecomers" and "The Quiet in the Land", all of which display his love of counterpoint and his fascination with recording techniques. His belief that the future lay in recordings led him to give up public performances in 1964 and his catalog of works includes William Byrd, Richard

