**GSAC XXIII**Head Edited by Will Overman, written by members of Maggie Walker Quizbowl

**Packet 9**

1. **The legalization of the abortion pill RU-486 was an issue of contention during debates in this election. A candidate in this election referred to Karl Rove as his “Architect.” The Supreme Court of the US overturned the Florida Supreme Court’s ruling of a statewide (\*)** recount of ballots in this election. One candidate in this election ran alongside Joe Lieberman. Ralph Nader ran his most successful campaign, his fourth, in this election. For 10 points, name this election, during which George W. Bush defeated Al Gore to become the 43rd president.

ANSWER: United States presidential election of **2000** [accept obvious equivalents]

2. **In this novel, Elizabeth regrets telling her late partner that she was pregnant. After looking at a stain on the ceiling, the main character of this novel wonders if anyone has remembered his birthday. One character in this novel has two sons named Royal, both of whom are dead. That character, (\*)** Gabriel, is spiritually reborn at the age of 21 and becomes a preacher. Throughout this novel, Florence keeps Deborah's letter to use as ammunition against her brother. For 10 points, name this James Baldwin novel centering on John Grimes.

Answer: ***Go Tell It On The Mountain***

3. **Because its leader wrote so many books, this faith’s followers read a condensed work called *Gleanings from the Writing of* this faith’s founder.  In that work, the author depicts world religions as different branches of a tree sprouted from the “seed of reality”.  Members of this faith celebrate (\*)** Riḍván, a twelve day festival whose first, ninth, and twelfth days are considered holy.  Riḍván falls from April 21st to May 2nd on the Gregorian Calendar, but it falls from Jalál 13th to Jamál 5th on this faith’s nineteen-month calendar.  For 10 points, name this faith founded by Bahá’u’lláh, commonly represented by a nine-pointed star.

ANSWER: **Bahá’í** Faith

4. **He landed his first acting job in the short film, *Cursed Part 3***, **after waiting tables at the Bubba Gump Shrimp Company. In the Season 6 gag reel of *Parks and Rec*, this man’s character admits to Ron Swanson that scientists experimented on him as a child, and that his head weighs 85 lbs. In 2014, this man landed the lead role as the voice of (\*)** Emmet Brickowski in *The Lego Movie*. He was nominated for MTV’s, “Best Shirtless Performance,” Award for his role as Peter Quill in *Guardians of the Galaxy*. For 10 points, name this actor, who recently starred as Velociraptor trainer Owen Grady in Colin Trevorrow’s *Jurassic World*.

ANSWER: Christopher Michael “Chris” **Pratt**

5. **The Poinsot construction depicts motion free of this quantity. Euler’s equations relate the components of this quantity to the inertia matrix and omega. For a current carrying loop exposed to a magnetic field, this quantity equals NIAB sine theta. This quantity causes (\*)** precession by acting perpendicular to angular momentum. This quantity is the time derivative of angular momentum. This quantity is equal to the cross product of the moment arm and force. For 10 points, name this rotational analogue of force.

ANSWER: **torque**

6. **This country became famous for its ornate winged hussar cavalry during the 16th through 18th centuries. A king of this nation that extended royal protection to Jews and invested in his country’s first university was Casimir III. This country’s failure to turn back a Russian invasion led to its occupation in (\*)** 1795, and while Napoleon freed this nation in 1807, it saw itself partitioned again in 1815 during the Congress of Vienna. For 10 points, name this Eastern European country that, from 1569 to 1795, was part of a commonwealth with Lithuania with capitals at Kraków and Warsaw.

ANSWER: Republic of **Poland** [accept “Rzeczpospolita **Polska**”]

7. **In elimination reactions, bulky forms of these substances act as exceptions to Zaitsev’s rule by creating steric clash. Compounds containing carbon double bonded to nitrogen with a substituted R group form versions of these substances named for Schiff. Lithium diisopropylamide is an example of the (\*)** super classof these substances. Lewis defined them as electron pair donors, while in Bronsted-Lowry theory they accept protons. For 10 points name these compounds which have a pH greater than 7.

ANSWER: **bases**

8. **In one of his operas, Geronte decides to abduct the title character not long after Des Grieux is captivated by her. Along with Manon Lescaut, another one of his operas features the aria “*Donde lieta uscì,”* where Mimi asks Rodolfo if she can separate from him. In another opera by this composer, (\*)** Mario Cavaradossi sings the aria, *“E lucevan le stelle”* while waiting to be executed. His most famous opera ends with Cio-Cio San committing suicide with a sword after Pinkerton arrives in Japan. For 10 points, name this Italian composer of the operas *La Boheme*, *Tosca*, and *Madama Butterfly*.

ANSWER: Giacomo **Puccini**

9. **One philosopher in this school coined the term "soft determinism" in "The Dilemma of Determinism." That same man sought to “make the truth more supple” through the application of radical empiricism.** **In one book expanding on the ideas of Jean-Jacques Rousseau and Plato, one philosopher of this school espoused (\*)** “learning by doing”.  “Obscure conceptions” were discouraged in “How To Make Our Ideas Clear”, authored by its founder, Charles Sanders Peirce. For 10 points, name this philosophical school that included philosophers such as John Dewey and William James.

ANSWER: **pragmatism**

10. **This poet wrote that “the heart must pause to breathe,” and so he must “go no more a-roving / By the light of the moon.”  In one poem he claims the way to greet an ex-lover after long years is the same way to part; “With silence and tears.” The subject of a poem by him is said to have “A mind at peace with all below” and (\*)** “A heart whose love is innocent.” That subject is initially described to have “all that’s best of dark and bright / Meet in her aspect and her eyes.” For 10 points, name this English Romantic poet who wrote of a woman who is “like the night” in “She Walks in Beauty.”

ANSWER: George Gordon Noel, Lord **Byron**

11. **Lin Zexu attempted to end this organization’s major smuggling activities in his country’s ports. This entity fought three wars with the Marathas, culminating in Robert Clive’s victory over the Nawab of (\*)** Bengal at Plassey. Under the Tea Act, American colonists could only buy this body’s imported tea. This corporation waged war with the Qing dynasty over opium imports. For 10 points, name this British joint-stock company founded in order to promote trade with its namesake region and China.

ANSWER: Honourable **East India**Company [accept **John** Company]

12. **In order to appease her, the priestesses of this goddess performed rituals to different statues of her every day of the year. Her counterpart of the west, Bastet, wears green while she wears red. This goddess's father seeks red ochre from Elephantine after she turns the (\*)** Nile red after going on a murderous rampage. This figure transforms into the gentle Hathor while being tricked into drinking blood-colored beer. This goddess was born out of the fire of Ra's eye. For 10 points, name this lion-headed goddess of war and vengeance.

ANSWER: **Sekhmet**

13. **The first of this composer’s two symphonies is in A-flat major and is dedicated to the conductor Hans Richter. This composer repeated a four-note fragment from a melody he often whistled to his wife in the “C. A. E.” section of one work which also contains sections such as “Dorabella” and (\*)** “Nimrod”. Jacqueline du Pré set the standard for performances of his *Cello Concerto in E minor*. A piece by this composer that contains the tune “Land of Hope and Glory” is often played at graduations. For 10 points, name this English composer of the *Enigma Variations* and the *Pomp and Circumstance Marches*.

ANSWER: Sir Edward W. **Elgar**

14. **One of these events occurred near the Ob River after attempting to enter Nizhnevartovsk, while Hassan Nasrallah theorized that another of these events was orchestrated by the Israeli Secret Police. Two victims of one of these events were suspected of involvement when it was discovered their passports were stolen (\*)**. Information about a past tailstrike was considered when determining the cause of this event, which Russian investigation determined to be a bomb that caused one of these events on the Sinai peninsula. For 10 points, name this type of event, exemplified by a recent Egyptian one involving mostly Russian tourists.

ANSWER: **plane crash** [prompt on just “**crash**”]

15. **The material that covers part of these cells is mainly composed of the lipid galactocerebroside and they can be created in the subventricular and subgranular zones. Camillo Golgi distinguished Type I and Type II varieties of these cells. They can be classified as afferent or efferent and these cells form in a (\*)** loose network structure in Cnidarians. These cells use sodium-potassium pumps to generate action potentials and part of them is covered by a myelin sheath. For 10 points, name these cells that convey electrical impulses in the nervous system and are composed of a soma, dendrites, and axons.

ANSWER: **neurons**

16. **This poet writes “your presence is foreign, as strange to me as a thing” in a poem that ends with its narrator asking, “who are you, who are you?” This man wrote of “love’s lashed and insatiable essences, sodden with fragrance” in a poem addressed to a lemon. This diplomat and politician wrote (\*)** “United Fruit Company” and *A Hundred Sonnets of Love*. One of this man’s works contains sections titled “A Lamp on Earth” and “The Flower of Punitaqui”; that work is the *Canto General*. Another of this man’s works contains the line “In you, everything sank!” For 10 points, name this Chilean poet of *Twenty Love Poems and a Song of Despair*.

ANSWER: Pablo **Neruda** [accept Neftalí Ricardo **Reyes Basoalto**]

17. **Martin Scorsese plays this artist in Kurosawa’s film *Dreams,* in which there is a memorable scene of the main character running through backgrounds of this artist’s paintings. A gloomy sky contrasts the yellow landscape of his *Wheatfield with Crows*. An orange bed appears on the right side of his depiction of a (\*)** bedroom. One of this artist’s paintings has a poisonously green ceiling, red walls, and an acid yellow floor. A pool table is featured prominently in the center of that work. A cypress tree shoots up into the sky on the left side of his most famous work. For 10 points, name this artist of *The Night Cafe* and *Starry Night*.

ANSWER: Vincent **Van Gogh**

18. **Originally having Israeli commandos train his army, this man soon turned against his former ally by allowing Palestinian hijackers to take refuge at the Entebbe Airport.** **After an invasion of a neighboring country backfired, this man fled to Libya before being granted asylum in Saudi Arabia. In 1972, he expelled all (\*)** Asians from his country, while also declaring himself the last King of Scotland. This man offered to marry Queen Elizabeth II in order to co-rule the Commonwealth with her. For 10 points, name this self-proclaimed “Conqueror of the British Empire”, a Ugandan dictator.

ANSWER: Idi **Amin** Dada

19. **This character meets an old woman who compares existence to a serpent after rescuing this character from an auto-da-fé in Lisbon. Along with a pessimistic scholar named Martin, this character sails across the Atlantic to reunite with his lover and his valet Cacambo in Venice. In South America, this character acquires sheep and (\*)** jewels from the city of Eldorado. This character, who suffers lots of misfortune, settles on a farm with Dr. Pangloss and Cunegonde and decides that “we must cultivate our gardens”. For 10 points, name this character who believes that he lives in “the best of all possible worlds” in a work by Voltaire.

ANSWER: **Candide**

20. **The observance of a 3.5 keV peak in the spectrum of this kind of radiation from multiple galaxies may be due to the decay or annihilation of dark matter. About every 45 minutes, a pulse of this type of radiation originates from Jupiter’s north pole. Accretion disks primarily emit this form of radiation. A satellite named after (\*)** Chandrashekar observes this type of radiation. For 10 points, name this type of electromagnetic radiation discovered by Wilhelm Rontgen and commonly used in medical imaging.

ANSWER: **x-ray**s

TB. **This figure assumed the shape of a dove to seduce a daughter of Phoroneus named Phthia. This deity transformed Eurymedousa into an ant and raped her. He also impregnated a woman trapped in an underground bronze chamber by King Acrisius in the form of a (\*)** golden shower, which entered her womb; that woman was Danae. The mother of King Minos, Europa, was abducted by this god in the form of a white bull. For 10 points, name this Greek god who took the form of a swan to seduce Leda, the father of Perseus and Hephaestus.

ANSWER: **Zeus**

1. Mutations in the Hox genes of these organisms can result in their antennas being swapped for legs. For 10 points each:

[10] Name this popular model organism that Thomas Hunt Morgan used to prove the existence of sex-linked inheritance by showing that only males can have white eyes.

ANSWER: ***D****rosophila* ***melanogaster***[accept “***Drosophila***” and “**fruit fly**”]

[10] The P-element present in wild type *Drosophila melanogaster*  is an example of one of these DNA sequences discovered by Barbara McClintock, commonly referred to as” jumping genes.”

ANSWER: **transposon**s [accept “**TE**” or “**transposable element**s”]

[10] This signaling pathway is named for an indentation found on *Drosophila melanogaster* wings. This pathway is responsible for the self-renewal of neural progenitor cells and is inhibited by the Numb protein.

ANSWER: **Notch** signaling pathway

2. In Abrahamic faiths the binding of Isaac is regarded as a test of Abraham’s faith and loyalty. For 10 points each:

[10] Name this action, which Abraham attempted on his son. This action was later done on a ram which appeared miraculously as a replacement.

ANSWER: **sacrifice** [do not accept or prompt on human sacrifice]

[10] In Christian tradition, this angel stops Abraham’s hand before the knife touches Isaac, and also appears to Mary to explain her immaculate conception.

ANSWER: **Gabriel** [accept **Jibra’il**]

[10] During this holiday, Muslims celebrate Abraham’s willingness to complete the sacrifice and his loyalty to God by sharing a sacrificed animal with family and the needy.

ANSWER: **Eid al-Adha** [prompt on just “Eid”; accept **Bakr-Eid**, **Feast** of the **Sacrifice**]

3. Name some things about swords in mythology, for 10 points each:

[10] The Lady of the Lake bestows upon King Arthur this legendary sword, which is said to have blinded its enemies upon being wielded for the first time.

ANSWER: **Excalibur** [or **Caliburn**]

[10] This kami used the Totsuka-no-Tsurugi to kill Yamata no Orochi. Within the serpent, this kami found another blade, the Kusanagi-no-Tsurugi.

ANSWER: Takehaya **Susano’o**-no-Mikoto

[10] This hero uses the sword Gram, or Nothung, to slay Fafnir, a dwarf-turned-dragon. After slaying Fafnir and drinking its blood, he acquired the ability to converse with birds.

ANSWER: **Sigurd** [or **Siegfried**]

4. Despite losing his hearing, this composer was still able to compose and conduct his symphonies, although he had some trouble playing them. For 10 points each:

[10] Name this German composer whose ninth and final symphony includes a scherzo in the second movement and Friedrich Schiller’s “Ode to Joy” in its final movement.

ANSWER: Ludwig van **Beethoven**

[10] This Beethoven symphony begins with an iconic G-G-G-E-flat played as a short-short-short-long motif, symbolizing Fate knocking at the door.

ANSWER: Symphony No. **5** [accept Beethoven’s **Fifth** Symphony]

[10] Beethoven composed his Fifth Symphony in this key that contains A-flat, B-flat, and E-flat in its key signature. Its relative major is E-flat major.

ANSWER: **C minor**

5. For 10 points each, name some key aspects about the Eastern Front during WWII.

[10] The German North, Central, and South army groups invaded this country in 1941 as part of Operation Barbarossa.

ANSWER: **Soviet Union** [accept “**USSR**” or “**Union of Soviet Socialist Republics**”]

[10] The German 6th army was surrounded and forced to surrender at the conclusion of this battle near the Volga River. The city where this battle took place was originally named Tsaritsyn.

ANSWER: Battle of **Stalingrad**

[10] Codenamed Operation Citadel, this 1943 engagement saw the largest tank battle in history take place. German *Panther* and *Tiger* tanks were first put to use during this battle, but the Soviets managed to repulse the German assault.

ANSWER: Battle of **Kursk**

6. This event saw the first time the US Armed Forces move to DEFCON 2. For 10 points each:

[10] Name this 1962 crisis that began after the discovery of SS-4 nuclear missiles being stockpiled on its namesake island.

ANSWER: **Cuban Missile** Crisis [accept “**October** Crisis” or “**Caribbean** Crisis”]

[10] One of these planes was used by the CIA in order to detect the construction of nuclear silos in Cuba. Major Anderson was shot down over Cuba while performing aerial reconnaissance in this type of plane.

ANSWER: Lockheed **U-2** [accept “**Dragon Lady**”]

[10] This man first proposed the idea of a blockade around Cuba. He served as Secretary of State under both Kennedy and Johnson, but was later criticized for his handling of the Vietnam War.

ANSWER: Robert **McNamara**    

7. The narrator of this poem describes how he always hears “Time’s winged chariot hurrying near.” For 10 points each:

[10] Name this poem that opens with the line “Had we but world enough, and time.” The narrator urges the title figure to “sport” while they may.

ANSWER: “**To His Coy Mistress**”

[10] This English, metaphysical poet wrote “To His Coy Mistress,” as well as “An Horatian Ode upon Cromwell’s Return from Ireland.”

ANSWER: Andrew **Marvell**

[10] This pastoral poem by Marvell begins “How vainly men themselves amaze / to win the Palm, the Oak, or Bays.”

ANSWER: “The **Garden**”

8. These substances can form Rollin films and creep outside of a container. For 10 points each:

[10] Name these substances that have zero viscosity.

ANSWER: **superfluid**s

[10] Superfluidity can be observed at much higher temperatures in this isotope of helium than in its less massive counterpart. The nucleus of this helium isotope is referred to as an alpha particle.

ANSWER: helium-**4**

[10] This Soviet physicist developed the mathematical theory of superfluidity, in which context he introduced rotons.

ANSWER: Lev **Landau**

9. Two suicide bombers attacked the railway station in this country’s capital of Ankara before the 2015 snap elections, killing over 100 people. For 10 points each:

[10] Name this Near East country, currently a member of NATO. It moved its capital from Istanbul to Ankara in 1923.

ANSWER: Republic of **Turkey**

[10] This current President of Turkey called for the snap elections after his party lost the majority of seats in parliament in the 2015 elections. He banned access to YouTube and Twitter in 2014.

ANSWER: Recep Tayyip **Erdoğan**

[10] Erdoğan founded this party in 2001, and led it to victory in the following three national elections. The Prime Minister is the current head of this party. It lost its majority in parliament in June 2015, only to win it back in the November snap elections.

ANSWER: **Justice and Development** Party [accept **JDP**, **AKP**, or **AK** Party]

10. This economist argues that the 1990’s economic crisis was the result of a liquidity trap. For 10 points each:

[10] Name this 2008 Nobel Laureate who writes the New York Times blog “The Conscience of a Liberal”.

ANSWER: Paul **Krugman**

[10] Krugman’s New Theory of this thing helped him earn the Nobel. A positive balance of this thing means that a country is exporting more than it is importing.

ANSWER: **trade**

[10] Krugman’s theory built upon the work of David Ricardo, who formulated this concept that states that even absolutely advantaged countries can benefit from specialization, assuming they have a lower opportunity cost.

ANSWER: **comparative advantage**

11. This conic section has an eccentricity between zero and one. For 10 points each:

[10] Name this conic section for which the sum of the distance between its points and the two foci remains constant.

ANSWER: **ellipse**s

[10] The eccentricity of an ellipse can be given as the semi-major axis divided by the distance between the center and this line.

ANSWER: **directrix**

[10] This other conic section is the set of points such that the distance from the focus is equal to the distance from the directrix.

ANSWER: **parabola**s

12. This character decides to stop growing on his third birthday. For 10 points each:

[10] Name this character who can use a piercing shriek to shatter glass.

ANSWER: **Oscar Matzerath** [accept either name]

[10] Oskar Matzerath is the protagonist of this novel, which is titled for his most treasured possession.

ANSWER: *The* ***Tin Drum*** [accept *Die* ***Blechtrommel***]

[10] This author’s *Danzig Trilogy*, which includes *Cat and Mouse* and *The Tin Drum*, explores the effects of the war on the namesake free city.

ANSWER: Gunter **Grass**

13. King Peter II called all people who wouldn’t recognize the leadership of this man traitors, after this man successfully liberated his country from Axis control. For 10 points each:

[10] Name this man who, despite being head of his country’s communist party, split from Stalin and the USSR in 1948. He was a founder of the Non-Aligned movement.

ANSWER: Josip Broz **Tito**

[10] Tito was the 1st President of this nation. Formed after WWI, this nation was dissolved in 1992 into six different Slavic countries, including Croatia and Serbia.

ANSWER: Socialist Federal Republic of **Yugoslavia** [accept **SFRY**]

[10] Yugoslavia refused to join this collective defense treaty between the USSR and other communist countries. Created in 1955, it was the USSR’s response to the founding of NATO.

ANSWER: **Warsaw Pact**

14. This movement began as a reaction to the Baroque movement, for 10 points each:

[10] Name this artistic style, characterized by pastoral landscapes, delicate colors and curving forms. *Pilgrimage to Cythera* and *The Swing* were works of this movement.

ANSWER: **Rococo**

[10] This Rococo artist painted the *The Swing*, *A Young Girl Reading*, and the collection *The Progress of Love*.

ANSWER: Jean-Honoré **Fragonard**

[10] A Fragonard work titled after this game depicts a woman in pastoral costume peeking out of her blindfold, chasing another figure.  Common variants of this game include tag and Marco Polo.

ANSWER: **blind man’s bluff** [accept **blind man’s buff**]

15. The Trans-Saharan Trade led to the rise of major trading-hub cities throughout West Africa. For 10 points each, identify some of those cities:

[10] This city’s inhabitants converted to Islam in the 10th Century, and it was acquired by Mali in the 13th Century. Sonni Ali captured this city before moving on to take Mali’s capital in the 15th Century.

ANSWER: **Gao**

[10] Sonni Ali was the first ruler of this empire, which supplanted Mali as the dominant power in West Africa. This empire fell after the Moroccan Saadi dynasty took its namesake capital.

ANSWER: **Songhai**

[10] Before being razed by the Songhai, this city served as the capital of the Malian empire. It became known for its universities and mosques constructed during the reign of Mansa Musa.

ANSWER: **Timbuktu**

16. The title character of this film builds an opera house and the pleasure palace, Xanadu, for the “singer,” Susan Alexander. For 10 points each:

[10] Name this film in which title character loses an election for Governor of New York after an affair and drops a snow globe when he dies.

ANSWER: ***Citizen Kane***

[10] This person played the role of Charles Kane and directed the film.  He may be best known for doing the radio broadcast of “The War of the Worlds”.

ANSWER: Orson **Welles**

[10] A 20-year-old Welles directed a performance of a “Voodoo” version of this Shakespeare play. For his version of this play he worked with an entirely African-American cast and set it on a fictional Caribbean island.

ANSWER: ***Macbeth***

17. A curse on this house resulted in several pesky incidents of cannibalism, murder, and revenge. For 10 points each:

[10] Name this house, whose three-generation curse began with Tantalus when he fed his son Pelops to the gods in an effort to test their power.

ANSWER: House of **Atreus**

[10] This trilogy of plays describes the efforts of the title hero to avenge his father’s death and thus end the curse, written by Aeschylus.

ANSWER: The ***Orestia***

[10] In the final play of the *Orestia*, the *Eumenides*, Athena is forced to make the final decision after the jury’s deliberation results in this.

ANSWER: “**tie**” [accept “**deadlock**”]

18. June Star and John Wesley complain about going to Tennessee in this short story. For 10 points each:

[10] Name this Southern Gothic short story in which the grandmother exclaims “You’re one of my own children!” before being killed by The Misfit.

ANSWER: “A **Good Man Is Hard to Find”**

[10] This author of the novel *Wise Blood* also wrote “A Good Man Is Hard to Find.”

ANSWER: Flannery **O’Connor**

[10] A traveling Bible salesman, Manley Pointer, steals Hulga’s prosthetic leg after convincing her to go on a date with him in this Flannery O’Connor short story.

ANSWER: “**Good Country People**”

19. This diagram is used to study the crystallization of silicate minerals from magma. For 10 points each:

[10] Name this diagram that increases in temperature as you move up it, with felsic minerals at the bottom and mafic minerals at the top. It has a continuous and a discontinuous branch.

ANSWER: **Bowen**’s reaction series

[10] This mineral is found at the bottom of Bowen’s reaction series. It has chemical formula SiO2 and has a hardness of seven on the Mohs scale.

ANSWER: **quartz**

[10] This member of the feldspar family is found on the continuous branch of Bowen’s reaction series. It comes in both calcium rich and sodium rich varieties.

ANSWER: **plagioclase**

20. A 10-km long concrete anti-tank defensive line along part of the Swiss border is named for these chocolates due to their distinctive shape, for 10 points each:

[10] Name this Swiss milk chocolate bar, containing honey and almond nougat, typically split into 10 distinctive pentahedrons and sold in triangular, prismoid containers.

ANSWER: **Toblerone**

[10] This conglomerate owns the Toblerone brand, along with Oreo, Trident, Nabisco, and Cadbury. This corporation was known as Kraft Foods until 2012.

ANSWER: **Mondelēz** International

[10] In 2013, Toblerone came under fire for its use of these people to harvest cocoa for its products. In the United States, this class of people cannot officially work until the age of 14.

ANSWER: **children** [accept obvious equivalents]

Extra. This organelle forms a network of membrane-enclosed sacs called cisternae, for 10 points each:

[10] Name this organelle in eukaryotic cells that folds and transports synthesized proteins in vesicles to the Golgi apparatus.

ANSWER: **endoplasmic reticulum** [or **ER**]

[10] The surface of this kind of endoplasmic reticulum is studded with ribosomes, giving it its namesake appearance.

ANSWER: **rough**

[10] This protein complex transports proteins between the Golgi and ER. Its I and II types use retrograde transport and anterograde transport respectively.

ANSWER: **COP**