

1996 Georgia Tech MLK Tossups by Duke

1. In biochemistry, they are mainly used for protein or DNA analysis and the most common types are made of polyacrilamide or agarose. In chemistry they are defined as colloids that flow at a very slow rate and behave more like solids. FTP, identify this term which is often associated with shaving.

Answer: gel

2. It is officially known as the Labor-Management Reporting and Disclosure Act and is a major law amending the 1947 Taft-Hartely Act. It specifies the rights of union members and requires that each union file an annual financial report with the Secretary of Labor. FTP, identify this 1959 labor law that was designed to clean up corruption in American unions.

Answer: Landrum-Griffin Act

3. This psychologist characterized the first year of life as consisting of two phases: the paranoid-schizoid and the depressive. She wrote that "the dominant aim [of the baby] is to possess himself of the contents of the mother's body and to destroy her by means of every weapon which sadism can command." FTP, identify this rival of Anna Freud and leader of the British school of psychology.

Answer: Melanie Klein

4. He died fighting against Queen Medb of Connacht. He tied himself to a pillar so he would die standing up and as a result his enemies were afraid to approach his body until a raven settled on his carcass and picked out his eyes. He was educated at the court of his uncle, King Conchobar by the greatest warriors and poets of his day. FTP, identify this principal hero of the Ulster cycle.

Answer: Cuchulainn

5. He was taught by a disciple of Ingres and greatly admired the Neoclassical style. He also studied the works of the photographer Eadweard Muybridge and was himself an amateur photographer. Although he exhibited with the Impressionists, he did not share their interest in landscapes. His preference for human subjects is reflected in works such as Woman Bathing in a Shallow Tub, Two Laundresses, and Absinthe. FTP, identify this French painter.

Answer: Edgar Degas

6. It flows a distance of about 820 miles with depths ranging from 5 to 50 feet. It courses to the Lake of Constance and canals connect it to the Meuse, Weser, Elbe, Saone, Seine, Ems, Danube, and Rhone rivers. FTP, identify this major European river which is known for the medieval castles which are along it.

Answer: Rhine River

7. It is divided into cis, medial, and trans processing compartments. It usually consists of four to six flattened membrane-bound cisternae. Its vesicles are thought to transport proteins and lipids. It has both a cis and a trans network where proteins enter and exit, respectively. FTP, identify this structure which is found near the cell nucleus and contiguous with the small endoplasmic reticulum.

Answer: Golgi Apparatus

8. He was one of the chief founders of the Cordelier and was largely instrumental in inciting the storming of the Tuileries in August 1792. In a famous speech regarding the enemies of France he stated "To conquer them, to crush them, what is necessary? To dare, to dare again, always to dare." He helped bring about the fall of the Girondists but his own moderate beliefs lead to his downfall. FTP, name this revolutionary who was guillotined by a Revolutionary Tribunal which favored the ideas of Maximilien Robespierre.

Answer: Georges Jacques Danton

9. Peter Quint and Miss Jessel are the villains of this tale, even though they're dead. The story is told forty years after the events actually take place and the main character has long been dead, too. The story deals with the power that Peter Quint and Miss Jessel have over Miles and Flora, two little children, and their new governess's attempts to save them. FTP, identify this Henry James novel.

Answer: The Turn of the Screw

10. This son of a dancing teacher was born in 1856 in Boston, Massachusetts. He studied at M.I.T. as well as spending a year at the Ecole des Beaux-Arts in Paris. In 1881, he formed a partnership with Dankmar Adler. Adler specialized in the engineering and acoustical problems while this man concerned himself with the architectural designs of buildings. He outlined his ideas in Autobiography of an Idea in 1924. FTP, name this architect who designed the Carson, Pirie, Scott Department Store in Chicago and the Wainwright Building in St. Louis.

Answer: Louis Henry Sullivan

11. He said that God is totally divine, totally supreme, and totally transcendent as well as being totally unknowable except through His revelations. Sinfulness is man's true nature and more liberal beliefs are simply wrong. FTP, identify this Swiss theologian who expounds his ideas of "crisis theology" in his work, Church Dogmatics.

Answer: Karl Barth

12. Among his lesser known discoveries include the element thallium and the invention of the radiometer. By applying high voltages across the electrodes of the device for which he is best known, he was able to produce and study cathode rays and various glow discharges. FTP, identify this British physicist who invented an electron tube containing two electrodes in a low gas pressure environment that bears his name.

Answer: Sir William Crookes

13. In 1773, he married Elizabeth Linley on whose behalf he fought two duels after helping her escape the unwanted attentions of a Major Matthews. Two years later, his first play was produced at Covent Garden and later that same year achieved success with St. Patrick's Day and the comic opera The Duenna. FTP, identify this British playwright of the late 18th century best remembered for his play The Rivals.

Answer: Richard Brinsley Sheridan

14. Madame Nadjeda Filaretovna von Meck, a wealthy widow, was his patron for fourteen years during which his productivity was very high. During this time he also married Antonina Milyukova but they soon separated. Alexander Ostrovski wrote the libretto for this man's first opera, The Voevoda. Other works include Undine, The Oprichnik, Mazeppa, Pique Dame, The Maid of Orleans, Eugene Onegin, and Symphony Pathetique. FTP, name this Russian composer.

Answer: Petr Ilich Tchaikovsky

15. It was through the work of Charles Proteus Steinmetz that the average engineer was allowed to understand and make use of devices that employed this type of electricity. For it, ohms law takes the form $V \text{ equals } IZ$ where Z represents impedance, the analog of resistance. FTP, what is this type of electricity in use in homes around the world?

Answer: AC or alternating current

16. He was greatly influenced by both Greek and Latin classics as well as the rigorously moralistic Jansenist philosophy. Under pressure from his family, he began to study for the priesthood but soon returned to writing. The company at the Hotel de Bourgogne produced all of his plays after he had a falling out with Moliere. FTP, name this French dramatist who wrote The Suitors, Bajazet, Mithridate, Berenice, Britannicus, and Phedre.

Answer: Jean Baptiste Racine

17. He opposed positivism, empiricism, and formal logic. He theorized that the "repressive tolerance" of a pluralist society offered only the terrors of conformity. Such a society could be overthrown by violence and then be replaced by a more open one. Only then could Eros, love, be united with Logos, reason. FTP, identify this German-American thinker who believed in the joining of politics with sex and the eroticization of human relations.

Answer: Herbert Marcuse

18. It all ended for this man in April 1918. His early career involved stints in the cavalry and infantry before he found his true calling. He was the head of a unique "Circus" which consisted of a crack group of fellow pilots. FTP, name this World War I flying ace who shot down 80 allied planes.

Answer: Red Baron or Manfred von Richthofen

19. Emmeline Grangerford is a very disturbed little girl who writes tragic poetry. Colonel Sherburn is a sadistic and unforgiving man who shoots the local town drunk. The King and the Duke are nothing more than cheap con artists. These are some of the lesser characters in this work in which Aunt Sally mistakes the title character for Tom Sawyer. FTP, name this classic by Samuel Clemens.

Answer: The Adventures of Huckleberry Finn

20. His reputation as one of the most skillful European statesmen of the 19th century was well-earned. He served in important cabinet positions during the ministry of the Marchese d'Azeglio and became premier in 1852. He allied his homeland with Great Britain and France in the Crimean War and later sided with Napoleon III against Austria. FTP, name this Sardinian who sent troops to aid Giuseppe Garibaldi and was instrumental in bringing about the Kingdom of Italy.

Answer: Conte Camillo Benso di Cavour

21. The heroine of this story has two children, Raoul and Etienne. Her close friend is Adele Ratignolle who extols the virtues of motherhood. The heroine doesn't care all that much for motherhood or, as it turns out, anything else. She has a pseudo-love affair with Robert Lebrun but in the end, Edna Pontellier just swims out to sea, never to return. FTP, name this Kate Chopin novel.

Answer: The Awakening

22. Petty Officer Edgar Evans died from a fall. Captain Lawrence Oates sacrificed his life, hoping to save his comrades but to no avail. Henry Bowers and Dr. Edward Wilson died of starvation on March 29 along with this man. Prior to dying he wrote The Voyage of the Discovery. FTP, identify this man who reached the South Pole on January 18, 1912 only to find the tent and flag of Roald Amundsen.

Answer: Robert Falcon Scott

23. It is set between 1896 and 1905 at a small South Texas farm owned by Mr. Royal Earl Thompson. It is during this period that Olaf Helton comes to work for Mr. Thompson and does an excellent job. Mr. Helton is rather quirky in that he keeps very much to himself and is rather possessive of his harmonica. Things go along fine for nine years until a bounty hunter shows up looking for Mr. Helton, resulting in both murder and suicide. FTP, identify the not-so-pleasant Katherine Anne Porter short story whose plot is described above.

Answer: Noon Wine

24. This city was founded around 1704 and is the center of a mining district. It is in a plain surrounded by mountains on all sides except the north. In its main square stands a monument to Miguel Hidalgo, who led the revolution of 1810. It is located approximately 730 miles northwest of Mexico City and 225 miles south of El Paso, Texas. FTP, name this city which shares its name with the Mexican state of which it is the capital.

Answer: Chihuahua

25. This title character dies of starvation. He has a wife named Nyla and three small children. He tries to eat a phonograph record. He spears fish. He uses a small chunk of frozen river to serve as a window for his igloo. FTP, identify this man who, in 1922, became a cinematic superstar thanks to director Robert J. Flaherty.

Answer: Nanook (of the North)

26. He has played a Jewish police officer but his more historic acting achievement is becoming the first black man to kiss a white man on live television as well as being the first black man to kiss another black man on live television. The two men he kissed were Bill Murray and Garrett Morris. FTP, name this co-star of the first two Naked Gun movies whose most renowned film appearance occurred in a white Ford Bronco.

Answer: Orenthal James Simpson

27. The latter parts of this work deal with the adventures of Luv and Kush (KOOSH), the sons of the main hero. The hero is no longer heroic, having banished his wife out of mistrust and Luv and Kush teach him a lesson by vanquishing his armies and defeating him as well. He realizes that he was mistaken about his wife but she returns to the earth from which she originally came. FTP, identify this Indian epic whose main portion deals with the hero's rescue of the aforementioned wife, Sita.

Answer: The Ramayana

28. He raised money by dyeing sparrows yellow and selling them as canaries. He crossed the Gobi desert and rafted the Kabul River, all the while attempting to ascertain the true meaning of everything. His main disciple was P.D. Ouspensky but it is doubtful that anyone every truly understood what he was all about. FTP, identify this modern mystic who attempted to tell all in his work All and Everything.

Answer: George Ivanovitch Gurdjieff

1996 Georgia Tech MLK Bonuses by Duke

1. Answer the following questions about those American cultural icons of the early 1980's ... the Dukes of Hazzard, for the stated number of points.

1. For 5 points, what actor, later turned politician, played Crazy Cooter?

Answer: Ben Jones

2. For 5 points, who sang the theme song to the Dukes of Hazzard?

Answer: Waylon Jennings

3. For 10 points, what bumbling deputy got his own spinoff which lasted rather briefly.

Answer: Enos

4. For a brief time, John Schneider and Tom Wopat left the show and were replaced by two different cousins. For 5 points each, name these characters, neither of whom could ever replace Bo or Luke.

Answer: Coy and Vance

2. Answer the following questions about barbarians at the gate ... of Rome that is, during the fall of the Roman Empire.

1. 5: Name the Visigothic leader who showed up in 410 A.D. and plundered Rome.

Answer: Alaric

2. 10: By 429, the Vandals, lead by this man had taken over much of North Africa.

Answer: Genserik or Gayseric

3. 5: Name the man who deposed the Roman emperor in 476 A.D. and ruled Italy until about 490.

Answer: Odovaker or Odoacer

4. 10: Name the Ostrogoth who came to power in Italy in 490 A.D.

Answer: Theodoric

3. Answer the following questions about DNA replication for 10 points each.

1. This class of enzymes catalyze the formation of a new strand of DNA.

Answer: Polymerase(s)

2. The lagging strand of DNA is synthesized via these fragments.

Answer: Okazaki fragments

3. DNA Polymerase I, consists of three domains. The two N-terminal domains perform polymerizing and exonuclease functions, respectively. Give the collective name of this two-domain fragment.

Answer: Klenow fragment

4. Name the French directors of the following films for 10 points each. Hint: none of the answers is Francois Truffaut.

1. Napoleon

Answer: Abel Gance

2. The Diary of a Chambermaid

Answer: Jean Renoir

3. A Married Woman

Answer: Jean Luc Godard

5. For 5 points each, answer the following questions about Hamlet.

1. This prince of Norway serves as a foil to Hamlet by being a man of action.

Answer: Fortinbras

2. This is the play that Hamlet tinkers with in order to catch "the conscience of the king."

Answer: The Murder of Gonzago (accept "The Mousetrap")

3. This man is Polonius's spy who brings him information from Paris.

Answer: Reynaldo

4. The play bears a great similarity to this man's The Spanish Tragedy, written in 1587.

Answer: Thomas Kyd

5. This close friend of Hamlet's manages to survive the entire play and tell Fortinbras what has occurred.

Answer: Horatio

6. Alas, this was the poor jester that Hamlet knew well.

Answer: Yorick

6. Answer the following questions about the digestive system for 10 points each.

1. This organ secretes inactive enzymes such as trypsinogen.

Answer: Pancreas

2. This component of the small intestine absorbs Vitamin B12 and bile salts.

Answer: Ileum

3. This enzyme converts trypsinogen to its active form, trypsin.

Answer: Enterokinase

7. Given a quote, identify the book of the Bible in which it appears for 10 points each.

1. "For we brought nothing into this world and it is certain that we can carry nothing out."

Answer: 1st Timothy

2. "For they have sown the wind and they shall reap the whirlwind ..."

Answer: Hosea

3. There were giants in the earth in those days ..."

Answer: Genesis

8. Given the years in which he served, identify the Chief Justice of the Supreme Court, for 10 points each.

1. 1888-1910
2. 1941-1946
3. 1864-1873

Answer: Melville Fuller
Answer: Harlan Stone
Answer: Salmon Chase

9. Give the capitals of the following locales for 5 points each.

1. Togo
2. Dominica
3. Trinidad and Tobago
4. The Solomon Islands
5. Qatar
6. South Australia

Answer: Lome
Answer: Roseau
Answer: Port of Spain
Answer: Honiara or Honiara
Answer: Doha
Answer: Adelaide

10. Given a brief description, identify the Nathaniel Hawthorne short story for the stated number of points.

1. For 5 points, A young preacher journeys into the woods, meets a bad guy, sees everyone selling their souls and loses his Faith.

Answer: Young Goodman Brown

2. For 10 points, A man seeks to rid his wife of her only imperfection and in doing so, brings about her death.

Answer: The Birthmark

3. For 15 points, A young man goes to the big city to find an influential relative, only to see him tarred and feathered.

Answer: My Kinsman, Major Molineaux

11. Answer the following questions about a rather traumatic time in Bavarian history.

1. For 10 points, name the "mad" king of Bavaria whose court was rocked by his scandalous involvement with a Spanish dancer.

Answer: Ludwig I

2. For 20 points, give the better known name of the Spanish dancer who was really born in Ireland to English parents.

Answer: Lola Montez

12. Given a work, name the American artist who created it for 5 points each.

1. The Agnew Clinic (1889)
2. Watson and the Shark (1778)
3. Nocturne in Black and Gold: The Falling Rocket (1877)
4. Christina's World
5. Max Schmitt in a Single Scull (1871)
6. Lavender Mist (1950)

Answer: Thomas Eakins
Answer: John Singleton Copley
Answer: James Abbot McNeill Whistler
Answer: Andrew Wyeth
Answer: Thomas Eakins
Answer: Jackson Pollock

13. Given a work, name its Japanese author, for 5 point each.

1. The Snow Country (1948)
2. The Tale of Genji (app. 1104)
3. Confessions of a Mask (1958)
4. The End of History and the Last Man
5. The Remains of the Day
6. The Master of Go

Answer: Yasunari Kawabata
Answer: Lady Murasaki
Answer: Yukio Mishima
Answer: Francis Fukuyama
Answer: Kazuo Ishiguro
Answer: Yasunari Kawabata

14. Answer the following firsts about 20th century South Asian history.

1. For 5 points, name the first Prime Minister of India.
2. For 10 points, name the first Prime Minister of Pakistan.
3. For 15 points, name the first Prime Minister of Bangladesh.

Answer: Jawaharlal Nehru
Answer: Mohammed Ali Jinnah
Answer: Mujibur Rehman

15. Identify the psychologists from a brief description for the stated number of points.

1. 5: This behaviorist wrote Walden II.
2. 10: He came up with the idea of Gestalt while travelling on a train.
3. 15: Name the "father of experimental psychology" whose students included Titchener.

Answer: B.F. Skinner
Answer: Karl Wertheimer
Answer: Wilhelm Wundt

16. Answer the following questions about wave mechanics for 10 points, each.

1. This type of wave is formed when the direction of vibration is perpendicular to the direction of propagation.

Answer: Transverse

2. This law describes Simple Harmonic Motion by the equation $F = -kx$.

Answer: Hooke's Law

3. This principle states that the effects of two or more waves on the displacement of a particle are independent.

Answer: Superposition Principle

17. 30-20-10. Name the author from a list of works.

30: Clock Without Hands

20: Reflections in a Golden Eye

10: Member of the Wedding

Answer: Carson McCullers

18. Identify the following members of Warren Harding's cabinet for 5 points each.

1. Vice-President

Answer: Calvin Coolidge

2. Secretary of State

Answer: Charles Evans Hughes

3. Secretary of Treasury

Answer: Andrew Mellon

4. Secretary of Interior (two answers, 5 each).

Answer: Albert Fall and Hubert Work

5. Secretary of Commerce

Answer: Herbert Hoover

19. 30-20-10. Name the artist from a list of works.

30: Battle of the Amazons (1618)

20: The Garden of Love (1635) and The Judgment of Paris (1625)

10: The Descent from the Cross

Answer: Peter Paul Rubens

20. Give the capitals of the following Australian territories for 5 points each.

1. Western Australia

Answer: Perth

2. Northern Territory

Answer: Darwin

3. New South Wales

Answer: Sydney

4. Victoria

Answer: Melbourne

5. Tasmania

Answer: Hobart

6. Queensland

Answer: Brisbane

21. Answer the following questions about mathematicians for 10 points each.

1. He postulated getting rid of words altogether and letting symbols stand for components of thought.

Answer: George Boole

2. He demonstrated that there would always be some propositions that couldn't be proven either true or false.

Answer: Kurt Godel

3. This Irish mathematician came up with the idea of quaternions.

Answer: William Hamilton

22. Identify the philosopher from the works, 30-20-10.

30: Adventures of Ideas

20: Science and the Modern World

10: Principia Mathematica, which he co-wrote

Answer: Alfred North Whitehead

23. Identify the following anthropologists from a brief description for 15 points each.

1. His "conflict theory" of cultural evolution builds on the traditions of Morgan and Marx. He sees societies as either egalitarian, ranked, or stratified. The state arises in order to enforce and legitimize stratification. He wrote The Evolution of Political Society.

Answer: Morton Fried

2. His "integration theory" of cultural evolution builds on Spencer and Durkheim, among others. His typology of societies goes from bands to tribes to chiefdoms to states. He wrote Origin of the State and Civilization.

Answer: Elman Service