

2020 IQBT Rookie Set Samples

Sample Tossups

1. This quantity is equal to the Fourier (for-ee-AY) transform of position. This quantity's time derivative was written on the right side of the original formulation of Newton's second law. Squaring this quantity and dividing the result by twice the mass of a particle gives that particle's (*) kinetic energy. This vector quantity is conserved during both elastic and inelastic collisions. For 10 points, name this quantity which is classically the product of mass and velocity.

ANSWER: linear momentum

<Physics – Clark Smith>

2. Rising water levels in this region have threatened the low-lying nests of the endangered Cape Sable seaside sparrow. The Shark river flows through this region that contains the Western Hemisphere's largest mangrove. Invasive Burmese pythons have overrun this region after a breeding facility was destroyed in (*) Hurricane Andrew. This "river of grass" is fed by the Kissimmee River and contains Lake Okeechobee (OAK-a-cho-bee). For 10 points, name this large tropical wetland in Southern Florida.

ANSWER: Everglades National Park [prompt on Florida before mentioned]

<Geography – United States – Jakob Boeye>

3. He's not Beethoven, but this composer's "Fifth" was a concerto grosso in his Opus 3, which contained twelve pieces like his Opus 1 trio sonatas. This composer of *L'estro armonico* worked at the orphanage and convent *Ospedale della Pietà*. He opened his (*) *The Contest Between Harmony and Invention* with four concerti paired with four sonnets, among which are *La primavera* and *L'autunno*. For 10 points, name this Venetian "Red Priest" and composer of *The Four Seasons*.

ANSWER: Antonio Vivaldi

<Fine Arts – Classical Music – Clark Smith>

4. A kingdom in this region annexed the Gaya confederacy and divided the royal class into the "sacred bone" and the "true bone." A massive stele detailing the history of a kingdom in this country was erected by Gwanggaeto the Great. A dynasty in this region included the privileged *yangban* class and employed an inventor of (*) "turtle ships," Admiral Yi Sun-Sin. In this region, Sejong the Great created the Hangeul writing system. The Silla, Goguryeo (go-GUR-yo), and Joseon kingdoms ruled in, for 10 points, what Asian peninsula whose historic cities include Seoul?

ANSWER: Korea [or Hanguk; or Kankoku; or accept Joseon before mention]

<History – World – Noah Sheidlower>

5. In this novel that parodies an R.M. Ballantyne book, a dead fighter pilot is thought to be a vicious creature. Roger deliberately drops a boulder on an overweight boy in this novel. In this book, Simon hallucinates a conversation with a (*) decapitated pig's head, and is shortly thereafter murdered after being mistaken for "the beast." The characters of this novel fail to flag down a rescue ship after Jack neglects to maintain the signal fire. For 10 points, name this William Golding novel about children who turn feral while stranded on an island.

ANSWER: Lord of the Flies

<Literature – British – Lalit Maharjan>