

## TOSSUPS

1. Inscriptions of this deity's name on a pithos ("PITH-oss") at Kuntillet Ajrud ("ah-j'ROOD") were cited by Francesca Stavrakopoulou ("STAV-rack-uh-POO-loo") in a book arguing that this deity was deliberately edited out of many narratives. In his book on "folk religion," William Dever ("DEE-ver") argues for the persistence of this deity's cult based on widespread finds of "pillar-base figurines." Somewhat confusingly, the name of this deity also denotes a type of worship-site which often consisted of a sacred grove or tree, but is usually rendered in English translation as this deity's namesake "pole." In the Bible, four hundred prophets of this deity and four hundred fifty priests of Ba'al ("bah-ahl") are brought into Israel on the orders of Ahab's wife Jezebel. Hosea ("hoh-ZAY-uh") proclaimed a theological "divorce" from this fertility goddess. For 10 points, name this goddess whom some scholars think was Jehovah's wife and is not to be confused with the similarly-named love goddess Astarte.

ANSWER: **Asherah** [or **Ashirat** or **Athirat**; accept **Asherah** pole; prompt on God's wife or YHWH's wife or Jehovah's wife before "Jehovah's wife"; reject "Ishtar" or "Astarte"]

<Religion>

2. A novel set in this country ends with the protagonist gazing up at the aquamarine, egg-shaped mobile that hangs above his baby daughter's empty bed. In that novel set in this country, a character tearfully runs off after listening to a recording of a plane crash and gets gunned down in front of a pool hall. The murder of ex-pilot Ricardo Laverde ("lah-VER-day") becomes an obsession of law professor Antonio Yammara in that novel from this country, *The Sound of Things Falling* by Juan Gabriel Vásquez. An author from this country created a man who cannot remain a clerk at the River Company of the Caribbean because his letters are too poetic, and who hires Leona Cassiani after mistaking her for a prostitute. In that novel from here, a fall from a ladder while trying to recover a parrot kills Juvenal Urbino ("oor-BEE-noh"). For 10 points, from what country is the author of *Love in the Time of Cholera*?

ANSWER: **Colombia** [or Republic of **Colombia**; or República de **Colombia**] (The second author is Gabriel García Márquez.)

<World Literature>

3. An unpopular governor of this colony was called "Big Belly" by indigenous peoples since he weighed over 400 pounds, and was recalled after he answered twenty-two settlers' reform petition by having their leader shot. It is generally thought that settlers of this colony were the first to build log cabins in the Americas, a practice they brought from the region of Savonia. This colony, created on a tract of land from Sankikan Kill to Minquas Kill, suffered from the unpopular rule of governor Johan Printz. Printz's successor, Johan Rising ("REE-sing") surrendered to the expedition by Peter Stuyvesant ("STY-vuh-sent") that conquered this colony, including the sites of present-day New Castle and Wilmington. For 10 points, what short-lived colony along the southern Delaware River named its capital Fort Christina after the queen of its home country?

ANSWER: **New Sweden** [or **Nya Sverige** ("NEW-uh S'VAR-yeh"); prompt on Delaware or Pennsylvania or New Jersey before "failed"; reject "Sweden" or "Sverige"]

<American History>

4. This architect placed a black pyramid over the entrance gate to an estate that also features another pyramid designed by this architect's assistant. Sibyls protect the entrances of a structure this architect designed for that estate's garden called the Temple of the Four Winds, which was based on Palladio's Villa Rotonda. In an example of his "castle air" style, this architect formed a three-sided rooftop arcade by grouping all the chimneys of Kings Weston House at its center. Despite having no training, this Kit-Cat Club member designed Castle Howard. Like Christopher Wren, this man worked with Nicholas Hawksmoor, who designed the Long Library of a building from which this architect was banned due to his grandiose plans. That building by this architect honors the Duke of Marlborough's victory in the War of the Spanish Succession. For 10 points, name this English Baroque architect of Blenheim Palace.

ANSWER: Sir John **Vanbrugh**

<Other Fine Arts>

5. An algorithm for this task that relies on both a triangle self-attention module and an invariant point attention module outputs its result as an LDDT confidence score. Roland Dunbrack's rotamer library is used to benchmark algorithms at this task. Rather than the root-mean-square distance, algorithms for this task are scored in competitions like CASP ("casp") with a global distance test on each C-alpha. David Baker's lab popularized the Rosetta force field for this task, and manages a citizen science project for it. This task minimizes a funnel-shaped energy function by varying two di-hedral angles per residue. A convolutional neural net that dwarfs other algorithms at this task was released by Google's DeepMind in 2021. For 10 points, name this computational task that replaces experiments like crystallography to predict the natural configuration of a string of amino acids.

ANSWER: *de novo* **protein structure** prediction [or computationally predicting how **proteins** **fold** from primary sequence; accept any logical equivalents that mention **proteins** or **polypeptides** AND secondary, tertiary, or quaternary **structure** or **folding**; prompt on answers that only mention **proteins** or **polypeptides**; prompt on answers that only mention **structure** prediction or **folding** prediction by asking "Of what molecules?"]

<Chemistry>