# **DUNE-US S&C Quiz**

17 September 2024

#### No Googling or Al assistance allowed!!!

#### **Science and Technology**

Place the following events in chronological order from earliest to most recent. One point for each item in the correct slot.

- Publication of "Broken Symmetries and the Masses of Gauge Bosons" by Peter W. Higgs
- CERN placed the World Wide Web in the public domain
- Launch of Sputnik
- Discovery of the b quark
- Discovery of the tau neutrino
- Founding of the U.S. Department of Energy

Match the following inventions or discoveries to their inventors. 1 pt each

Thing	Person
Polio vaccine	Wilhelm Röntgen
X-rays	Alexander Graham Bell
General relativity confirmation during solar eclipse	Charles Goodyear
Telephone	Grace Hopper
Vulcanized rubber	Jonas Salk
FLOW-MATIC (later COBOL) language	Arthur Eddington

(2 pts) He is the only person to win the Nobel Prize in physics twice.

#### Food and Drink (mostly drink)

Identify each character's drink of choice. 1 pt each.

- James Bond
- Jeffrey "The Dude" Lebowski

#### Homer Simpson

Controversy surrounded the 2024 Nathan's Hot Dog Eating Contest when this 16-time champion was banned from participating due to an endorsement deal with another company. 2 pts

A standard 750 ml bottle of spirits is sometimes called by this alternative name, representing a close approximation to the fraction of a gallon that it contains. 2 pts

#### Arts and Entertainment

At over 38 million copies, a 1976 Greatest Hits album by this band is the best-selling album of all time in the United States. 1 pt

At over 34 million copies, this 1982 album is the best selling album of all time by a solo artist in the United States. 1 pt

The Chicago Institute of Art has one of the finest collections in the world of this painting movement, including Claude Monet's *Water Lilies* and Georges Surat's *A Sunday Afternoon on the Island of La Grande Jatte*. 2 pts

(1 pt each) These films are the only two sequels to win the Academy Award for Best Picture (hint: they are not in the same series or cinematic universe).

#### Presidential Trivia (It's an election year, after all)

(1 pt) This President served as Chief Justice of the Supreme Court after his presidency.

(1 pt each) Name the President responsible for, or associated with, these famous quotes:

- a) "With malice toward none, with charity for all, with firmness in the right as God gives us to see the right, let us strive on to finish the work we are in: to bind up the nation's wounds, to care for him who shall have borne the battle and for his widow and his orphan, to do all which may achieve and cherish a just and lasting peace among ourselves and with all nations."
- b) "We choose to go to the moon, and to do the other things, not because they are easy, but *because* they are hard..."
  - c) "I have never been a guitter."
- d) "I will not make age an issue of this campaign. I am not going to exploit, for political purposes, my opponent's youth and inexperience."
- e) "[This President] is silent in five languages." (The president being referred to) Identify the following presidents by their nicknames (1 pt each).

- a) "Old Hickory"
- b) "His Accidency"
- c) "Professor" (also "Schoolmaster")
- d) "The Comeback Kid"

(1 pt) He holds the record for longest tenure of office.

(1 pt) He holds the record for shortest tenure of office.

### **History**

(1 pt) Founded in 1636, it is the oldest university in the United States.

(1 pt) The Louisiana Purchase doubled the size of the United States in 1803. From what country did the U.S. purchase the territory?

Identify the country in which these United States military operations occurred. 1 pt each

- Eagle Claw (1980)
- Just Cause (1989)
- Desert Shield (August 1990-January 1991)

(1	pt) It is the	most recei	nt state	admitted to	the union	(August 21,	1959).
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#### By the Numbers

Each one of these answers is a number. 1 pt each

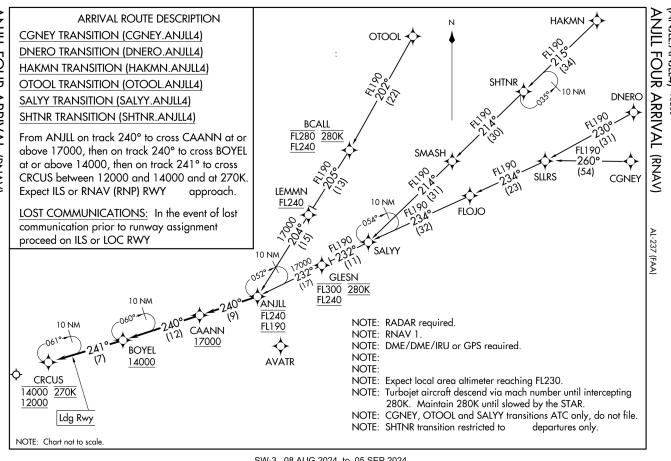
Total number of Rings of Power in Tolkien's Lord of the Rings	
Jackie Robinson's uniform number with the Dodgers	
The normal boiling point of Argon (rounded to nearest whole K)	
Number of nights Scheherazade told stories in Arabian Nights	
John Blutarsky's GPA on a 4.0 scale	
U.S.S. Enterprise registry (original series): NCC-	
Total number of Beethoven symphonies	

$\left(\frac{1+i}{\sqrt{2}}\right)^4$	
$\lim_{x \to 2} \frac{x^2 - 4}{x - 2}$	
Speed in miles per hour Sammy Hagar was unable to drive	
2 bonus points: sum of the previous answers	

## **Geography/Pop Culture**

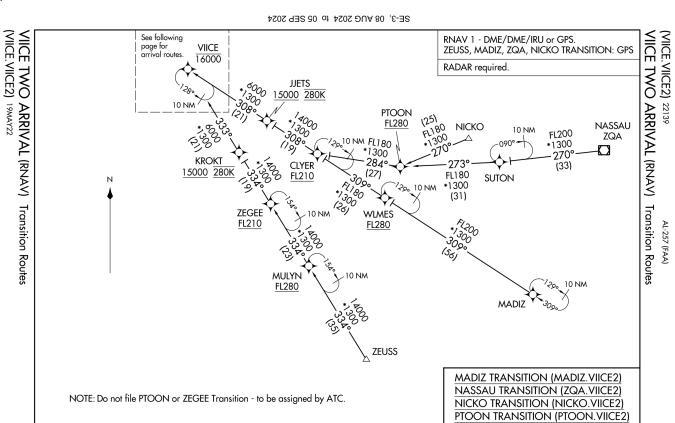
Identify the airport or closest major city (all in the US) associated with these FAA instrument procedures. Many of the waypoint names (places, things, people, fictional characters), and or the procedure name itself, have something to do with the city. The altitude and speed requirements are not important. 3 pts each.

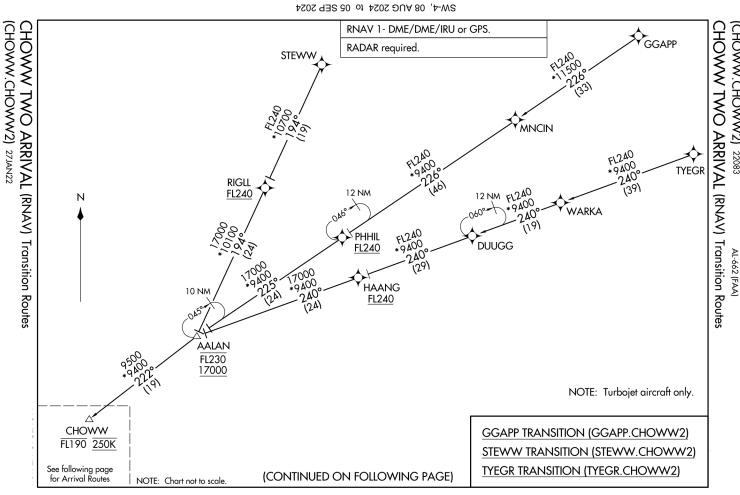
1) ANJLL FOUR



SW-3, 08 AUG 2024 to 05 SEP 2024

#### 2) VIICE TWO





SW-4, 08 AUG 2024 to 05 SEP 2024

(PATSS7.PATSS) 30NOV23

NE-1, 08 AUG 2024 to 05 SEP 2024

#### **Bonus Question**

Four U.S. universities can claim both a U.S. President and a Super Bowl-winning quarterback among their former students. How many can you name? (1pt for each university, plus 1 pt each for President and QB *if matched to the correct university*)