ENROUTE FLIGHTPLANS, NAVIGATION AND AERONAUTIC CHARTS (48 pts)

Use the attached *IFR ENROUTE LOW ALTITUDE CHART FOR REGION AROUND CHICAGO O’HARE AIRPORT (and it’s Legend)* to answer the following questions.

1. (6 pts)
   A VOR/DME is located at Chicago O’Hare.
   a) What is the ICAO Identifier for the VOR/DME ________________
   b) What Frequency and Channel does the pilot tune to use the VOR/DME ____________MHz__, Channel ________________

2. (2 pts)
   The 090 degree radial outbound from the Chicago O’Hare VOR along with a 21nm range from the Chicago O’Hare DME defines an intersection. What is the name of the intersection?
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3. (2 pts)
The 089 degree radial outbound from the Chicago O’Hare VOR along with a 14nm range from the Chicago O’Hare DME defines an intersection. What is the name of the intersection?

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4. (4pts)

The FARMM intersection is north-west of the Chicago O’Hare VOR/DME on the 314 degree radial outbound of the VOR and 29 nm range from the DME.

The FARMM intersection is located on which airway running approx. east-west?

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The FARMM intersection is located on which airway running north-west - south-east)

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5. (34pts)

MADISON VORTAC (MSN) is located north-west of the Chicago O’Hare VOR/DME (ORD)

a) List the sequence of intersections and navaids flying the V217 and V228 airways from ORD to MSN. (6 pts)

ORD - ___________ - ___________ - ___________ - - MSN

b) What is the distance between the intersections/navaids (12 pts)

From: ORD_____ - To: ___________ Distance = __________nm
From: __________ - To: ___________ Distance = __________nm
From: __________ - To: ___________ Distance = __________nm
From: _________ - To: ___MSN____  Distance = ___________nm

c) What is the total distance between ORD and MSN flying V217 and V228? (2 pts)
______________________nm

d) V228 lists 10,000 feet and V217 lists 2200 feet as the Minimum Enroute Altitude (MEA). (6 pts)

In general, how should pilots use the MEA?

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Given that there are no terrain or obstacles close to 10,000 in the mid-western United States (in the vicinity of the V228 airway), what other reason would there be to assign a MEA of 10,000 for V228?

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