IFR Flight Test Ground Questions

General

- Approach Ban
 - When it exists (RVR)
 - Conditions when in effect
- Explain DH & MDA (Be Specific)
- GPS Overlay Approaches (Bold Italics)
- 100nm Safe Altitude
 - Point of Origin (center of airport)
 - How much clearance from obstruction is there
- Where would we find Civilian Equivalents to PAR Approaches (CAP Gen).
- Can start climb portion of Missed Approach anywhere on final but must not turn until passing the MAP.
- Identify DME symbol on plate.
- Identify Lat/Long on approaches with GPS overlay indicating runway threshold.

Airports

Victoria

- Advisory Visibility
 - Is it governing
 - Why is it higher on Runway 09 than on 27 (lighting intensity)
 - Where can we locate definitions for lighting notation (CAP Gen)
- LB-257° Lead Bearing
 - What fix does it originate from?
 - The purpose of it is?

- Intermediate Fix
 - Black vertical bar on Waypoint indicating IF Fix.
 - Purpose of IF fix (No PT required)

Smithers

- Advantage of DME for Approach
 - To identify the IF Fix (7.7 DME) to allow for a straight in approach (DME not required for the approach)
- Identifying the restriction on circling west
- When should you switch from the "TK" to the "YP" beacons when tracking inbound
 - Midpoint (see coffin Corner)

Terrace NDB/DME NDB A Approach

- Which profile do we follow on the DME approach (Solid one)
- How do we identify the MAP (timing on both approaches)
- Primary use of the DME is to identify the step down fix at 3 DME to 2100'
- "NDB A" & "NDB B" indicating that two separate circling approaches are authorized at the same airport.
- Night Circuit Procedures
 - Published "informally" to provide organized climb procedure for departure.
 - Obtain frequency for "TB" from CFS not published in CAP

Nanaimo

- Note on how GPS approach gets you lower than terrain on the Missed Approach procedure
- Lead Bearing on ARMAC transition.

Instrument Transport

- O departure procedures to assure obstacle clearance
- 2) GPS accuracy, availability, integrity
 - 3) civeling approch procedures
- u) minimum Evel Emergency
- 6) contact approch (requirent)
- 6) requirement to plan analternate using GNSS Applice
 Thunder storm pentration procedure
 8) visual procedure
- (RNAV Voute) ----(RNAV Voute)
- calculate 11) Alternate minima
- (3) communication Failure through min after a SID

ATPL QUESTIONS

- 1. Medical requirement for a 43 yrs old pilot
- 2. Max Flight hours 300 in 90
- 3. PPC Check requirement (someone who hasn't had a PPC in a year.. can he be PIC or SIC)
- 4. Def. Of a Large Aircraft (the 12,500 thing)
- 5. Hi Altitude training requirements for pressurized aircrafts
- 6. Ground training company written test
- 7. Commuter pilot recency = 3 T/O and Lnd in 90 days
- 8. Airline VFR fuel requirements (45 min thing)
- 9. CVR inop (the best answer was continue flights till end of itinerary)
- 10. ALT ALERT inop (best answer was "PPC Check or training flight")
- 11. Pilot requirement VFR night air taxi with PAX
- 12. Aircraft requirements single engine night with passengers
- 13. TODA and TORA (it was about clearway is it a part of TORA or TODA)
- 14. LDA in flight plan commuter for a large turbo prop aircraft (have to stop within a distance not to exceed 60 or 70 or 100 or 115%)
- 15. A/C able to maintain with 1 ENG inop how far can it fly offshore without having ANY survival equipment available on board
- 16. When can you disturb an accident scene (extricate a person, prevent fire, etc..)
- 17. What airspace do you enter when you leave the southern boundary of the Arctic Controlled Airspace on a southbound flight
- 18. Control Area Extension in High Level Airspace (that was the answer, can't remember the question)
- 19. Airline Flights in Mountainous region (2000-5)
- 20. Advise ATC of speed changes w/in +-5%
- 21. In the Standard Pressure Region. You are flying at 240 and was cleared to descend to 180 and hold. When do you set your ALT to local airport setting
- 22. MNPS NAT 285-420
- 23. CMNPS reporting requirements (LONGS and LATS)
- 24. ASI indications when Static Port blocked (over read and under read)
- 25. How do you improve HF reception (SSB thing)
- 26. PSR, SSR and TSR which one doesn't require an airbourne x-ponder and is Wx det. capable
- 27. EPR (turb disch tot press vs comp inlet tot press)
- 28. Compressor bleeds = to prevent stalls
- 29. Free turbine eng = not true that the power turbine is connected to the compressor shaft
- 30. Balanced Field definition with a bunch of answers I couldn't remember
- 31. What safety component prevents the aircraft altitude from exceeding the cabin alt
- 32. Best CG for Long stab about the Lat axis is it far AFT of CP, near CP or FWD of CP

33. Canard design means..... can't remember the answers but I think it was about a forward air foil

ILS beam width 1.4 (glile path total width) 34.

RNAV enroute 1 Dot = 1/2NM 35.

COUNTY

LOC reliable range at 10 NM 35° either side of first course 36.

Dynamic hydroplanning when the A/C lifts up and rides on a film of water 37. One question on 3 bar VASIS without a diagram. I think it goes.. a pilot of 38. an aircraft with EWH of less than 25' should refer the Upwind, Middle and Downwind indication (in that effect)

39. One question on PAPIS with a diagram

- RWY upslope + Rain = illusion of being high with potential of crossing 40. threshold with speed higher than normal and lower than normal
- 41. The least vortices are caused by a fast clean aircraft
- 42. Winglets increase form drag and decrease induced drag

43. A question on Mcrit and shockwave

44. Type I de-icing fluid – degree of protection against re-freezing and further accumulation (and they use terms like good, very good and not so good)

45.

- ICE effect on lift and drag (the 30-40 thing) 30% induction in lift.

 3 practical W&B questions identical to your questions from the workbook 46. on CG, ARM, %MAC, and MAX PAYLOAD using the diagrams on page 5-9. 5-10 and 5-11
- 47. 1 CRFI question on max allowable x-wind from a certain direction to the runway bearing in mind the aircraft max allowable x-wind is 20kts - using the same diagram on page 5-13

48. a weight shift question straight forward w/W=d/D

a question on PNR Dist and time Time to PNR = EXT , Distance to PNR = EXOXH 49.

50. a question on CP Dist and time

MET started with 7-8 weird questions I have never seen anywhere 51.

52. Why is water vapour important

53. What kind of wx you expect when unstable air - typical flying day conditions - the choices included a combination of = rain - updrafts and downdrafts - vertical cloud development - poor visibility - turbulence - I can't remember what was the exact wording

54. What does moisture to air masses

- ONLY 2 QUESTIONS ON GFA's one was about how many charts in a 55. GFA (3 and 3) and the other was = where do expect ice in a flight from point C and the answer was SFC and it was very obvious because nothing else was around on the chart. !!!
- 56. NO COMPLEX LOW QUESTIONS WHATSOEVER

2 questions on CAT and polar and tropical jet stream 57.

- VIRGA is an idication of a dry microburst results in intense temp cooling 58.
- W/Shear on ILS requires power inc and nose up then lower than normal 59.
- 60. Lenticular clouds found further down from the wave crest
- Attenuation is caused by intense precip like rain 61.

Examination questions which are related to the following were answered incorrectly:

- Calculate landing weight.
- Calculate maximum payload
- Compute the critical point.
- Decode a METAR.
- Identify hydroplaning properties.
- Identify the components of a turbine engine.
- Interpret upper level winds chart.
- Recall flight plan alternate requirements.
- Recall tailplane stall symptoms.
- Recall the emergency equipment required for flight over water.
- Recall the flight duty time regulations for a commercial air service.
- Recall the requirements for applying cold temperature corrections.
- Recall what affects GPS accuracy, availability and integrity.

/ ATRA

Meteorology

What do ice pellets indicate encountered by an aircraft flying in the cold air mass below the clouds of an upcoming warm front?

o Freezing rain aloft

0 3

What does the presence of VIRGA indicate?

- Mechanical turbulence
- High humidity
- 0

Covered time period of FAs (not really clear if the outlook period is considered part of the coverage)

self explanatory

Surface Prognostic Charts show the weather pattern

- o at time of issue
- o 36 and 40 hours in the future
 - 2

Which type of fog is unlikely to disappear quickly with rising temperatures/ sunshine during the day?

- Radiation fog
- Upslope fog with strong winds
- Fog over large bodies of water
- · 1

Navigation

Based on a VFR flight from St. John's, NF to St. Anthony, NF with a stopover at Deer Lake, NF., later being rerouted to Springdale, NF. As an alternate instead of Deer Lake.

Including time, distance, ground speed calculation, wind correction (you have to decide, which of the 2 correction methods to apply, but only opening/closing angle method matches the answer options), relative bearing question (fixed card ADF), intercept Radial (find MH considering 70 deg. intercept angle, wind condition (given in magnetic as departure wind, so it's easy, but don't apply any variation calculation),

You are given a certain position relative to a radial and a OBS setting - you have to determine CDI position and TO/FROM indication.

You have to determine with 4 given NOTAMS if you can use Springdale as an alternate (NOTAMS refer to snow on the runway with an "approximate" expiry time, radio aids u/s and lighting u/s).

You are asked about the true obstacle height indicated in the obstacle quadrants of the CFS for Deer Lake.

With the appropriate formula you have to determine the reception range of a VOR for a given altitude, you are asked how LORAN - C works and what the most critical time of the day is for NDB reception (night or dawn/dusk).

Frequency to contact Springdale.

- 62. 8-10 questions on TAFS like:
 - how do they call for WIND CALM in TAFS
 - Winds True or Mag
 - Ceilings and Wx at certain hours
 - When do you expect the next forcast
 - Vertical Visibility
 - Ground layers
- 63. 6 questions on METARs 2 of them on SLP very easy to decode –
- 64. the exact same LADY FRANKLIN COPPERMINE and BR-22 question
- 65. 2 questions on ACAS TCAS about x-ponders
- 66. 2 VOR navigation questions
 - you are on the 160 radial inbound with the needle cent.
 What indication would you get if you turn your OBS to 170 what indication would you get.
 - Check tolerance on the ground
- 67. Cruise performance question on the diagram on page 5-22 asking for time and landing weight. The problem with this question is that they give you a laminated chart and thick red and blue pens and there are 2 answers that are ridiculously close together. I am not even sure I got it right.
- 68. Most of the practical questions had at least 2 very close answers. I think they do that on purpose. They don't want you to score high, no matter how hard you work...

- C) 5,6
- D) 10,12
- 28. WHAT SPEED IS FOR RETRACTED FLAPS?
- 29. GROUND EFFECT?
- 30. CROSS WIND CALCULATION BY THE CHART
- 31. WHAT IS THE CONTROL ZONE AT OTTAWA CARLINGTON?
- 32. BEYOND GLINDING DISTANCE
- X) LIFE JACKET
- 33. GROUNDROLL DISTANCE AT 27 KTS LEVEL GRASS

10% PER 9 KTS DECREASE 15% INCREASE FOR GRASS CODITION FROM TABLE

- 34. FORMATION OF THUNDERSTORM
- 35. NIMBOSTRATUS
- 36. BY THE CHANGE OF CLOUDS WHICH FRONT IS APPROACHING
- 37. SLAIGHT LINE

Multrengine Flight test ground porsion. wight + Balance Top for two hours your wieght 3 other people (Summer) 120 lbs baggage fuel for two hours Landing distance 50 ft obstacles. Landing distance with total weight of 410416s. (Bob) -> I told that I would not land with this condition. because the weight was over maximum 40 weight (6000 (65) And he gave me another weight (4000/bs). Aircraft documents needed on Aircraft for flight.

Speeds of Aircraft.

- Vso, Vsh, Vie, Vir, USSE, VysE.

vmc-what is umc he said full Rudder deflection. How is it determand. - he said full Rudder deflection.

- Alternator failure (Right) with left ENG failure -

- crossfeed lines

- Emergency proceedings,