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STUDENT NAME:

DATE AND TIME:

01. The net flight path gradient after take-off compared to the actual climb gradient is:

- a) Smaller
- b) Depends on type of aircraft and may be smaller or larger respectively
- c) Equal
- d) Larger

02. Tip vortices which are responsible for wake turbulence appear as soon as the following is established:

- a) Drag
- b) Lift
- c) Lift destruction
- d) Spin up

03. Given: aircraft height 2500 FT, ILS GP angle 3°. At what approximate distance from THR can you expect to capture the GP?

- a) 13.1 NM
- b) 7.0 NM
- c) 14.5 NM
- d) 8.3 NM

04. In which of the following areas is the highest frequency of thunderstorms encountered?

- a) Polar
- b) Subtropical
- c) Tropical
- d) Temperate

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05. When a commercial transport passenger aircraft is equipped with a door in the flight crew compartment area, this door must include:

- a) A device preventing the flight crew from being locked in the cockpit.
- b) A locking system to prevent any unauthorized access.
- c) A sealing system which, in case of depressurisation in the compartment area allows the maintenance of the pressure in the cockpit for as long as possible.
- d) Distinctive red or yellow coloured markings indicating the access area (in case of a blocked door).

06. The Alerting Service is provided by:

- a) The ATS unit responsible for the aircraft at that moment.
- b) Only by ATC units.
- c) The ATC unit responsible for the aircraft at that moment, when it is provided with 121,5 MHz.
- d) The Area Control Centres.

07. Supercooled droplets can be encountered

- a) In winter only in high clouds
- b) Only in winter above 10000 FT
- c) At any time of the year
- d) Only in winter at high altitude

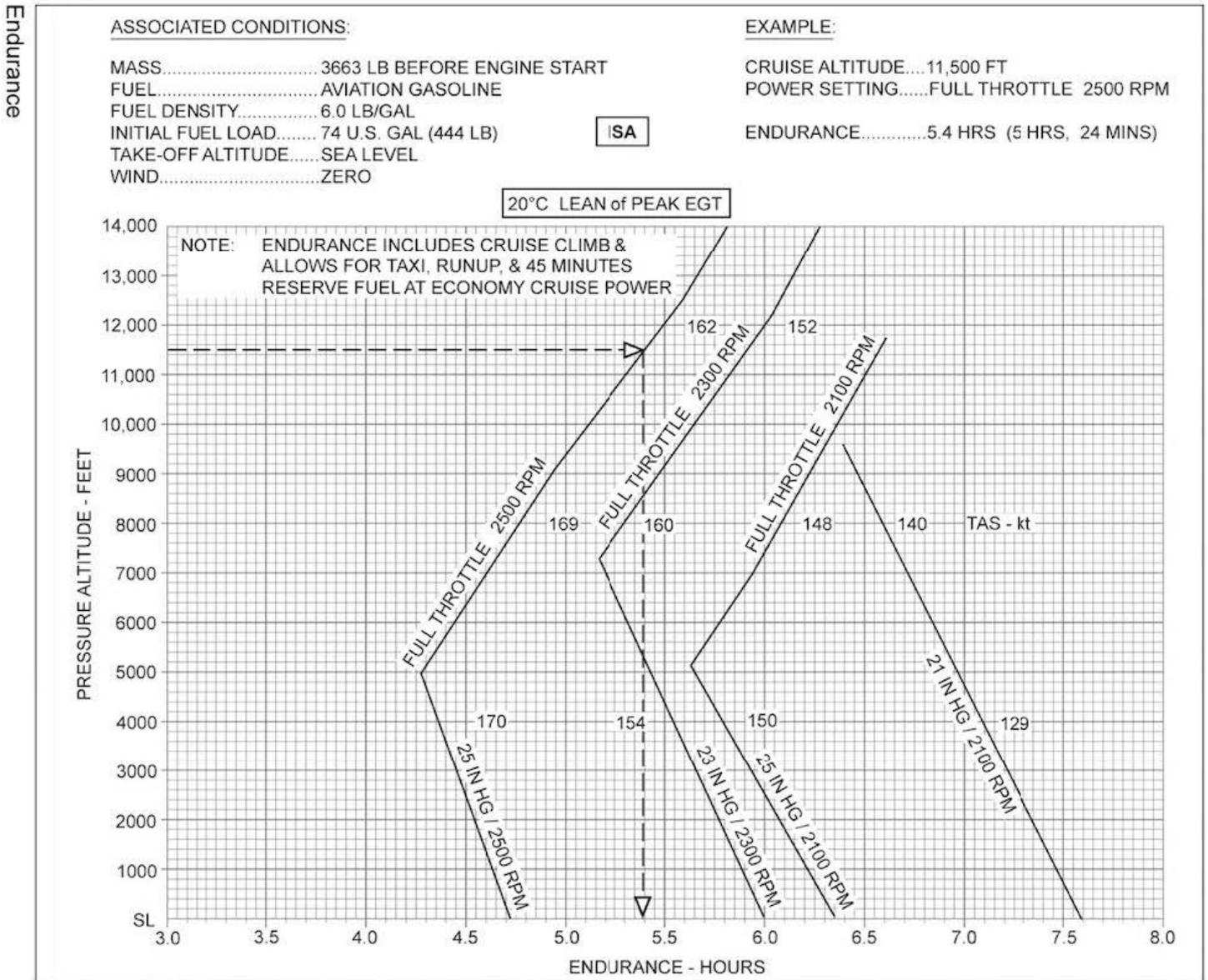
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08. See Flight Planning Manual SEP 1 Figure 2.5. Given: FL 75, Lean mixture, Full throttle, 2300 RPM. Take-off fuel: 444 lbs, Take-off from MSL. Find: Endurance in hours and minutes.



- a) 05 hours 12 minutes
- b) 05 hours 23 minutes
- c) 04 hours 42 minutes
- d) 05 hours 20 minutes

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09. When may the name of the location or the call sign suffix in the call sign of an aeronautical station be omitted?

- a) Only after the aeronautical station has used the abbreviated call sign
- b) Never
- c) In dense traffic during rush hours
- d) When satisfactory communication has been established and provided it will not be confusing to do so

10. What is meant by the phrase 'readability 4'?

- a) Readable
- b) Readable but with difficulty
- c) Perfectly readable
- d) Readable now and then

11. A Control Zone shall extend laterally to at least:

- a) 5 nautical miles from the centre of the aerodrome or aerodromes concerned in the direction from which approaches may be made.
- b) 10 miles from the centre of the aerodrome or aerodromes concerned in the direction from which approaches may be made.
- c) 20 miles from the centre of the aerodrome or aerodromes concerned in the direction from which approaches may be made.
- d) 15 miles from the centre of the aerodrome or aerodromes concerned in the direction from which approaches may be made.

12. A minimum sector altitude (MSA) is defined in relation to a radio navigation facility. Unless a different distance is specified, this altitude is valid within:

- a) 20 NM
- b) 25 NM
- c) 10 NM
- d) 15 NM

13. What are the standard masses used for crew?

- a) 88 kgs for flight crew, 76 kgs cabin crew, not including baggage
- b) 85 kgs for flight crew, 75 kgs cabin crew, not including hand baggage
- c) 88 kgs for flight crew, 76 kgs cabin crew, including baggage.
- d) 85 kgs for flight crew, 75 kgs cabin crew, including hand baggage

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14. In accordance with ICAO Annex 10 the NAVSTAR/GPS global average 95% position accuracy in SPS should be:

- a) 22m in 3D
- b) 30m horizontally
- c) 5m vertically
- d) 13m horizontally

15. What does the term 'air-ground communication' mean?

- a) One-way communication from aircraft to stations or locations on the surface of the earth
- b) One-way communication from stations or locations on the surface of the earth
- c) Two-way communication between aircraft and stations or locations on the surface of the earth
- d) Any communication from aircraft to ground station requiring handling by the Aeronautical Fixed Telecommunication Network (AFTN)

16. Which phrase shall be used if you want to say: "Communication is difficult. Please send every word or group of words twice"?

- a) Say again, say again
- b) Repeat twice
- c) Words twice
- d) Message second time

17. In relation to the polar front jet stream, the greatest rate of wind shear is most likely to occur

- a) Well below the core
- b) On the tropical side of the core
- c) Close to the core on the polar side
- d) 5000 FT or more above the core

18. What does not impair the function of the photosensitive cells?

- a) High speed
- b) Toxic influence (alcohol, nicotine, medication)
- c) Acceleration
- d) Oxygen deficiency

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19. What is the approximate maximum diameter of the area affected by damaging winds at the surface caused by a microburst?

- a) 20 km
- b) 400 m
- c) 50 km
- d) 4 km

20. A radio altimeter employing a continuous wave signal would have:

- a) A directional aerial for transmission and an omni-directional aerial for reception
- b) An omni-directional aerial for transmission and directional aerial for reception
- c) A directional aerial for both transmission and reception
- d) A directional aerial for transmission and another one for reception

21. The TCAS II (Traffic Collision Avoidance System) gives avoidance resolutions:

- a) Only in the horizontal plane
- b) In horizontal and vertical planes
- c) Only in the vertical plane
- d) Based on speed control

22. If the thrust available exceeds the thrust required for level flight

- a) The aeroplane descends if the airspeed is maintained.
- b) The aeroplane accelerates if the altitude is maintained.
- c) The aeroplane decelerates if the altitude is maintained.
- d) The aeroplane decelerates if it is in the region of reversed command.

23. See TRM (VFR), Aberdeen (Dyce) Information Page (19-6). What is the designated departure route when using Runway 23 in bad weather and/or low visibility?

- a) H3
- b) H6
- c) H5
- d) H1

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24. In straight horizontal steady flight, at speeds below that for minimum drag:

- a) A lower speed requires a higher thrust.
- b) The aeroplane cannot be controlled manually.
- c) A higher speed, but still below that for minimum drag, requires a higher thrust.
- d) The aeroplane can be controlled only in level flight.

25. Which one of the statements below is correct regarding the DME?

- a) The DME operating frequencies are in the UHF frequency band.
- b) The DME ground station is always co-located with a VOR station.
- c) The indicated distance is the ground distance measured from the aircraft's projected position on the ground to the DME ground installation.
- d) Two lines of position obtained from two different DME's give an unambiguous fix.

26. According to DOC 4444 (ICAO), a wake turbulence radar separation minima of 9,3 km (5,0 NM) shall be applied when a:

- a) HEAVY aircraft is crossing behind a HEAVY aircraft, at the same altitude or less than 300 m (1 000 ft)
- b) LIGHT aircraft is crossing behind a HEAVY aircraft, at the same altitude or less than 300 m (1 000 ft)
- c) MEDIUM aircraft is crossing behind a MEDIUM aircraft, at the same altitude or less than 300 m (1 000 ft)
- d) LIGHT aircraft is crossing behind a MEDIUM aircraft, at the same altitude or less than 300 m (1 000 ft)

27. The stopway is an area which allows an increase only in the:

- a) Accelerate-stop distance available
- b) Landing distance available
- c) Take-off distance available
- d) Take-off run available

28. The air in a piston engine turbo-supercharger centrifugal compressor:

- a) Enters via the diffuser and is fed to the impeller at the optimum angle of attack.
- b) Enters at the periphery and leaves via the eye of the impeller.
- c) Enters the eye of the impeller and leaves at a tangent to the periphery.
- d) Enters at a tangent to the rotor and leaves via the stator.

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29. Some aeroplanes have a 'waist' or 'coke bottle' contoured fuselage. This is done to

- a) Increase the strength of the wing root junction.
- b) Apply area rule.
- c) Improve the low speed characteristics.
- d) Fit the engine intakes better to the fuselage.

30. What does the word 'disregard' mean?

- a) Consider that transmission as not sent
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) An error has been made in this transmission

31. The climb limited take-off mass can be increased by:

- a) Selecting a lower V_2
- b) Selecting a lower V_1
- c) Selecting a lower V_R
- d) A lower flap setting for take-off and selecting a higher V_2

32. The induced drag coefficient, C_{Di} is proportional to:

- a) C_L
- b) Square root (C_L)
- c) C_L^2
- d) C_{Lmax}

33. Dependent parallel approaches may be conducted to parallel runways provided that: the missed approach track for one approach diverges by:

- a) At least 45° (degrees) from the missed approach track of the adjacent approach
- b) At least 25° (degrees) from the missed approach track of the adjacent approach
- c) At least 30° (degrees) from the missed approach track of the adjacent approach
- d) At least 15° (degrees) from the missed approach track of the adjacent approach

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34. A lower airspeed at constant mass and altitude requires:

- a) Less thrust and a lower coefficient of lift
- b) A higher coefficient of lift
- c) More thrust and a lower coefficient of drag
- d) More thrust and a lower coefficient of lift

35. Which of these statements about structural design principles are correct or incorrect? 1) The **DAMAGE TOLERANCE** principle takes cracking of the structure into account. 2) The **SAFE LIFE** principle is based on the replacement of parts after a given number of cycles or flight hours.

- a) 1) is correct, 2) is incorrect.
- b) 1) is incorrect, 2) is correct.
- c) 1) is correct, 2) is correct.
- d) 1) is incorrect, 2) is incorrect.

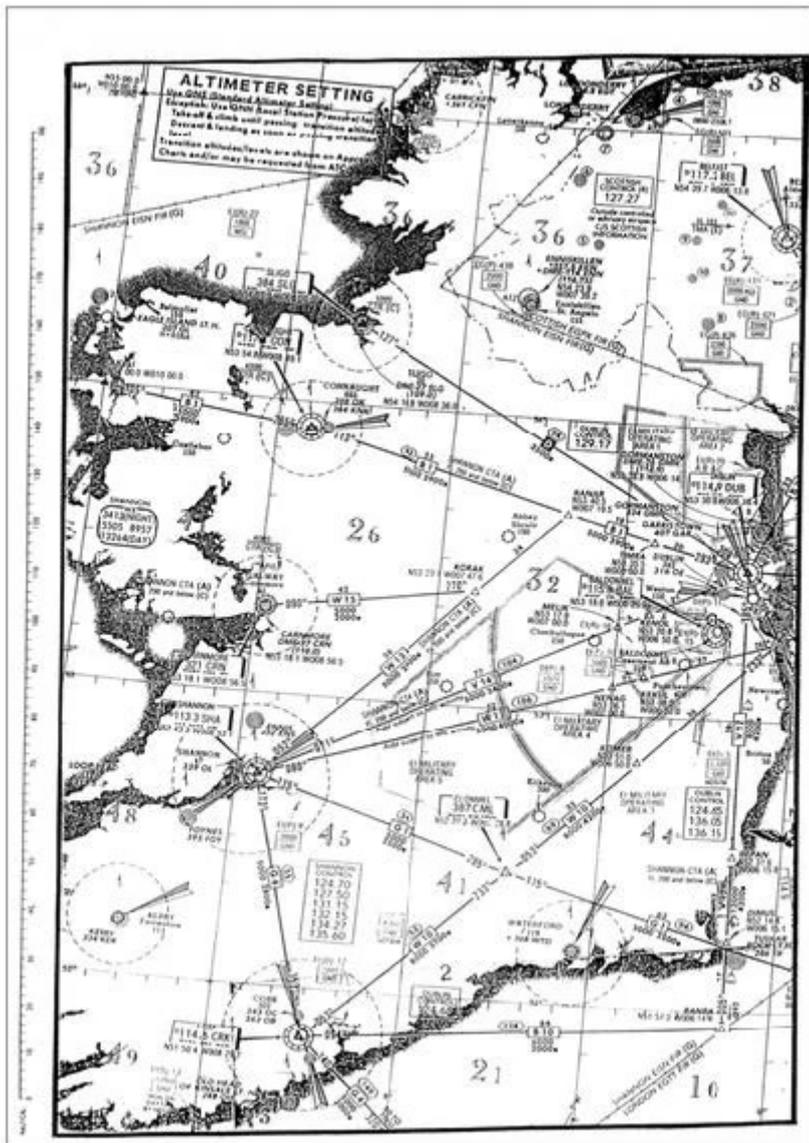
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36. Refer to Student Pilot Route Manual E(LO)1 Given: SHA VOR (N5243.3 W00853.1) radial 120°, CRK VOR (N5150.4 W00829.7) radial 033°. What is the aircraft position?



- a) N5225 W00805
- b) N5220 W00750
- c) N5230 W00800
- d) N5240 W00750

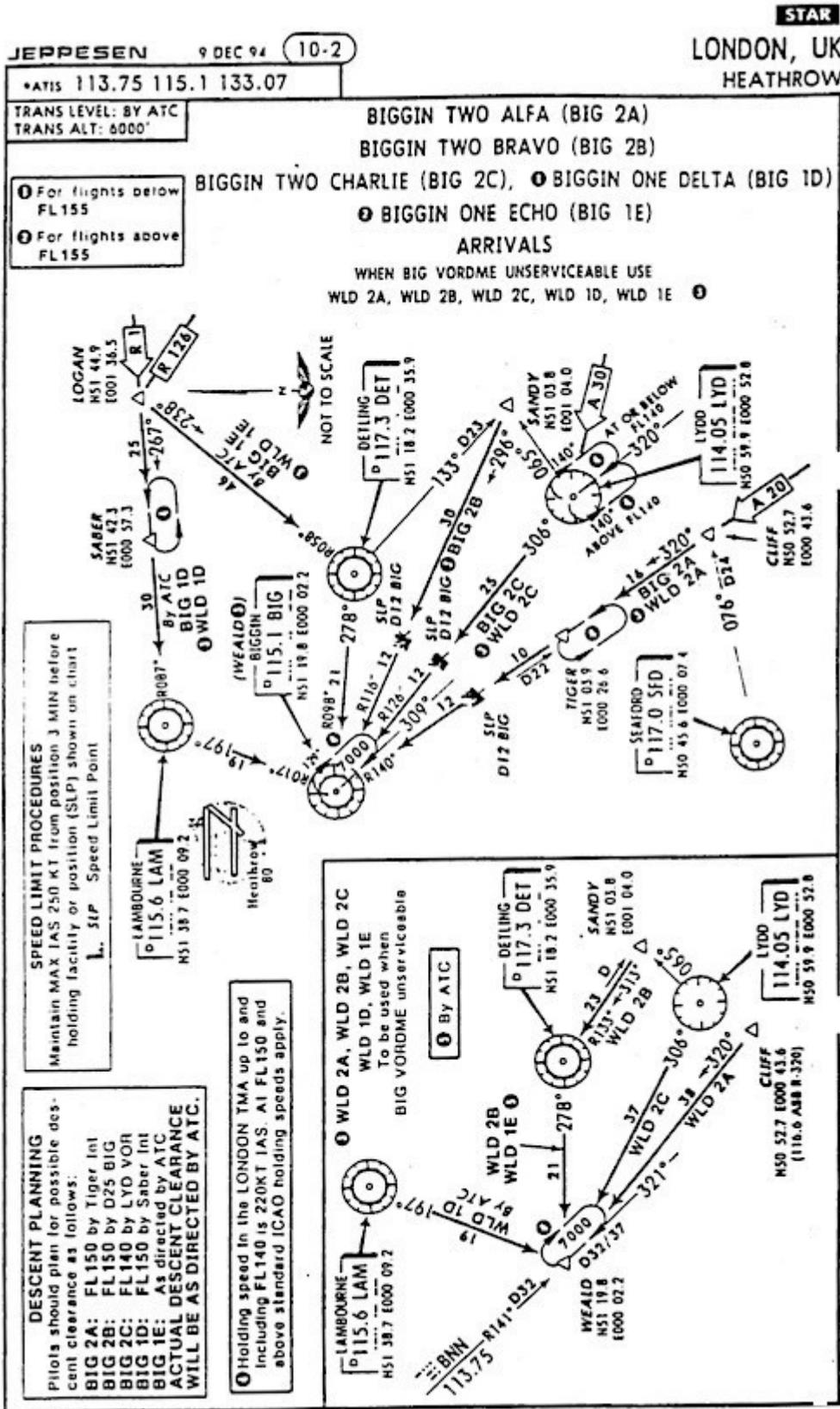
37. Planning an IFR-flight from Paris to London (Heathrow). Name the identifier and frequency of the initial approach fix (IAF) of the BIG 2A arrival route.

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CHANGES: STARs BIG 1D, 1E, WLD 1D, 1E by ATC only.

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- a) EPM 316 kHz
- b) BIG 115.1 MHz
- c) BIG 115.1 kHz
- d) OCK 115.3 MHz

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38. A headwind will:

- a) Increase the angle of climb
- b) Increase the rate of climb
- c) Increase the climb flight path angle
- d) Shorten the time of climb

39. The DME (Distance Measuring Equipment) operates within the following frequencies:

- a) 329 to 335 MHz
- b) 108 to 118 MHz
- c) 962 to 1213 kHz.
- d) 962 to 1213 MHz

40. A higher outside air temperature (OAT):

- a) Increases the climb limited take-off mass
- b) Increases the field length limited take-off mass
- c) Decreases the take-off distance
- d) Decreases the brake energy limited take-off mass

41. Which is the maximum distance at which you might expect solid VHF contact over flat terrain at flight level 50:

- a) About 8 NM
- b) About 15 NM
- c) About 85 NM
- d) About 150 NM

42. Which elements of a position report cannot be omitted?

- a) Aircraft identification, position, time, level
- b) Aircraft identification, position, level
- c) Aircraft identification, position, time
- d) Aircraft identification, position, next position

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43. In order to reduce the risk of coronary artery disease, exercise should:

- a) Be avoided since raising the heart rate shortens the life of the heart
- b) Double the resting heart rate for at least 20 minutes, three times a week
- c) Triple the resting heart rate for 20 minutes, once a week
- d) Double the resting heart rate for at least an hour, five times a week

44. Which of the following statements concerning jet streams is correct?

- a) In the northern hemisphere only westerly jet streams occur
- b) In the northern hemisphere both westerly and easterly jet streams occur
- c) In the southern hemisphere only easterly jet streams occur
- d) In the southern hemisphere no jet streams occur

45. Which word or phrase shall be used if you want to say: 'Reduce your rate of speech'?

- a) Repeat
- b) Words twice
- c) Say again
- d) Speak slower

46. What relationship exists between the wind at 3000 feet and the surface wind?

- a) They are practically the same, except when eddies exist, caused by obstacles
- b) They have the same direction, but the surface wind is weaker, caused by friction
- c) The surface wind is veered compared to the wind at 3000 feet and is usually weaker.
- d) The wind at 3000 feet is parallel to the isohypses and the surface wind direction is across the isobars toward the low pressure and the surface wind is weaker.

47. What does the word 'acknowledge' mean?

- a) Pass me the following information
- b) Repeat all of this message back to me exactly as received
- c) Let me know that you have received and understood this message
- d) Repeat all of your last transmission

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48. In general transport aeroplanes with power assisted flight controls are fitted with an adjustable stabilizer instead of trim tabs on the elevator. This is because:

- a) The pilot does not feel the stick forces at all
- b) Effectiveness of trim tabs is insufficient for those aeroplanes
- c) Trim tab deflection increases M_{crit}
- d) Mechanical adjustment of trim tabs creates too many problems

49. Which of the following statements is correct concerning flight in an environment of low contrast (fog, snow, darkness, haze)?

- a) It is impossible to detect objects.
- b) It is difficult to estimate the correct speed and size of approaching objects.
- c) It is unlikely that visual illusions occur.
- d) There is no problem to estimate the correct speed and size of approaching objects.

50. When an aeroplane is flying at an airspeed which is 1.3 times its basic stalling speed, the coefficient of lift as a percentage of the maximum lift coefficient (CL_{max}) would be:

- a) 130%
- b) 169%
- c) 59%
- d) 77%

51. When will the surface wind in a METAR record a gust factor?

- a) When gusts are at least 15 knots above the mean wind speed
- b) With gusts of at least 25 knots
- c) When gusts are at least 10 knots above the mean wind speed
- d) With gusts of at least 35 knots

52. The order of priority of the following messages in the aeronautical mobile service is:

- a) Flight safety message, meteorological message, flight regularity message.
- b) Flight safety message, direction finding message, urgency message.
- c) Flight regularity message, distress message, meteorological message.
- d) Meteorological message, direction finding message, flight safety message.

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53. An non-synergetic cockpit:

- a) Is characterised by a highly efficient crew, communicating appropriately with the outside
- b) Is characterised by withdrawn crewmembers and unclear communication
- c) Is not very dangerous as each person checks everything personally
- d) Always results from an over-relaxed atmosphere

54. Penetration into the NAT HLA (North Atlantic High Level Airspace) is:

- a) Subject to an optional clearance depending on the type of flight (scheduled or not)
- b) Subject to a mandatory clearance
- c) Subject to a clearance only if the flight route is changed
- d) Not subject to a clearance, since the flight is already controlled

55. Over Madrid, what intensity of turbulence and icing is forecast at FL 200?

- a) Severe turbulence, moderate icing
- b) Moderate turbulence, light icing
- c) Severe turbulence, severe icing
- d) Moderate turbulence, moderate icing

56. Heading information from the gyromagnetic compass flux gate is transmitted to the:

- a) Heading indicator.
- b) Erecting system.
- c) Amplifier.
- d) Error detector.

57. What is a VDF referenced to?

- a) Magnetic north at the aircraft
- b) True north at the aircraft
- c) Magnetic north at the station
- d) Relative bearing to the aircraft

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58. With a true airspeed of 194 KT and a vertical speed of 1000 fpm, the climb gradient is about:

- a) 5°
- b) 3%
- c) 8%
- d) 3°

59. A descent is planned from 7500 ft AMSL so as to arrive at 1000 ft AMSL 6 NM from a VORTAC. With a GS of 156 kt and a rate of descent of 800 ft/min. The distance from the VORTAC when descent is started is:

- a) 15,0 NM
- b) 27,1 NM
- c) 30,2 NM
- d) 11,7 NM

60. You start from P (70°00'N 015°00'E) and fly westward along the parallel of latitude for 2 hours at ground speed 220 kts. What is your position after two hours flight?

- a) 006°26'W
- b) 021°26'W
- c) 007°40'E
- d) 006°44'W

61. In a turn at a constant angle of bank, the turn indicator reading is:

- a) Independent to the aircraft true airspeed
- b) Proportional to the aircraft true airspeed
- c) Proportional to the aircraft weight
- d) Inversely proportional to the aircraft true airspeed

62. A pitot tube covered by ice which blocks the ram air inlet will affect the following instrument (s):

- a) Vertical speed indicator only.
- b) Altimeter only.
- c) Airspeed indicator, altimeter and vertical speed indicator.
- d) Airspeed indicator only.

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63. Which elements of communication are prone to malfunctioning?

- a) Coding and decoding
- b) The sender and the receiver as well as coding and decoding
- c) The receiver
- d) The sender

64. An aeroplane equipped with fully powered flight controls (irreversible type):

- a) Remains normally controllable in case of total loss of power to the flight control system.
- b) Requires the use of an artificial feel system.
- c) Must be equipped with control locks.
- d) Does not require the use of an artificial feel system.

65. Under EASA Air OPS, who is responsible for providing an Operations Manual for the use and guidance of operations personnel?

- a) The owner of the aircraft.
- b) The aircraft producer.
- c) The national authority.
- d) The aircraft operator.

66. In mass and balance calculations the 'index' is:

- a) An imaginary vertical plane or line from which all measurements are taken.
- b) A location in the aeroplane identified by a number.
- c) The range of moments the centre of gravity (cg) can have without making the aeroplane unsafe to fly.
- d) Is a figure without unit of measurement which represents a moment.

67. In a layer of air the decrease in temperature per 100 metres increase in height is more than 1°C. This layer can be described as being

- a) Conditionally unstable
- b) Absolutely stable
- c) Conditionally stable
- d) Absolutely unstable

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68. What does the instruction: 'Fastair 345 standby 118.9 for TOWER' mean?

- a) Fastair 345 should change frequency to 118.9, on which aerodrome data are being broadcast
- b) Fastair 345 should contact TOWER on 118.9
- c) Fastair 345 should listen on frequency 118.9 on which TOWER will initiate further communications
- d) Fastair 345 should standby on the current frequency

69. Increasing the number of propeller blades will:

- a) Increase the propeller efficiency
- b) Increase the noise level at maximum power
- c) Increase the maximum absorption of power
- d) Decrease the torque in the propeller shaft at maximum power

70. According to PART-FCL, the validity of type ratings and multi-engine class ratings for aeroplanes is 1 year. For an initial issue, this validity is calculated from the date:

- a) Of the skill test.
- b) The application is received by the Authority.
- c) Of issue.
- d) Of the last medical certificate.

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Response Scheme

Compare your answers with the following diagram and mark your score!

01: A	02: B	03: D	04: C
05: B	06: A	07: C	08: A
09: D	10: A	11: A	12: B
13: D	14: D	15: C	16: C
17: C	18: A	19: D	20: D
21: C	22: B	23: B	24: A
25: A	26: B	27: A	28: C
29: B	30: A	31: D	32: C
33: C	34: B	35: C	36: C
37: B	38: C	39: D	40: D
41: C	42: C	43: B	44: B
45: D	46: D	47: C	48: B
49: B	50: C	51: C	52: A
53: B	54: B	55: D	56: D
57: C	58: D	59: B	60: A
61: D	62: D	63: B	64: B
65: D	66: D	67: D	68: C
69: C	70: C		

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Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____		