

Exam simulation

ATPL - Airline Transport Pilot license - Air Law



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STUDENT NAME:

DATE AND TIME:

01. An aircraft on an IFR flight in VMC experiences radio communication failure. The aircraft is assumed to:

- a) Return to the aerodrome of departure
- b) Land at the alternate aerodrome
- c) Land at the nearest suitable aerodrome
- d) Land at the destination aerodrome

02. Extensive cloud and precipitation is often associated with a non frontal thermal depression because of:

- a) Surface convergence and upper level divergence causing widespread ascent of air in the depression
- b) Surface divergence and upper level convergence causing widespread ascent of air in the depression
- c) Surface divergence and upper level convergence causing widespread descent of air in the depression
- d) Surface convergence and upper level divergence causing widespread descent of air in the depression

03. The centre of gravity is the

- a) Centre of thrust along the longitudinal axis, in relation to a datum line
- b) Point where all the aircraft mass is considered to be concentrated
- c) Neutral point along the longitudinal axis, in relation to a datum line
- d) Focus along the longitudinal axis, in relation to a datum line

04. To minimize the risk of hydroplaning during landing the pilot should:

- a) Use maximum reverse thrust, and should start braking below the hydroplaning speed.
- b) Use normal landing-, braking- and reverse technique.
- c) Make a 'positive' landing and apply maximum reverse thrust and brakes as quickly as possible.
- d) Postpone the landing until the risk of hydroplaning no longer exists.

05. The QFF at an airfield located 400 metres above sea level is 1016 hPa. The air temperature is 10°C higher than a standard atmosphere. What is the QNH?

- a) 1016 hPa
- b) Less than 1016 hPa
- c) More than 1016 hPa
- d) It is not possible to give a definitive answer

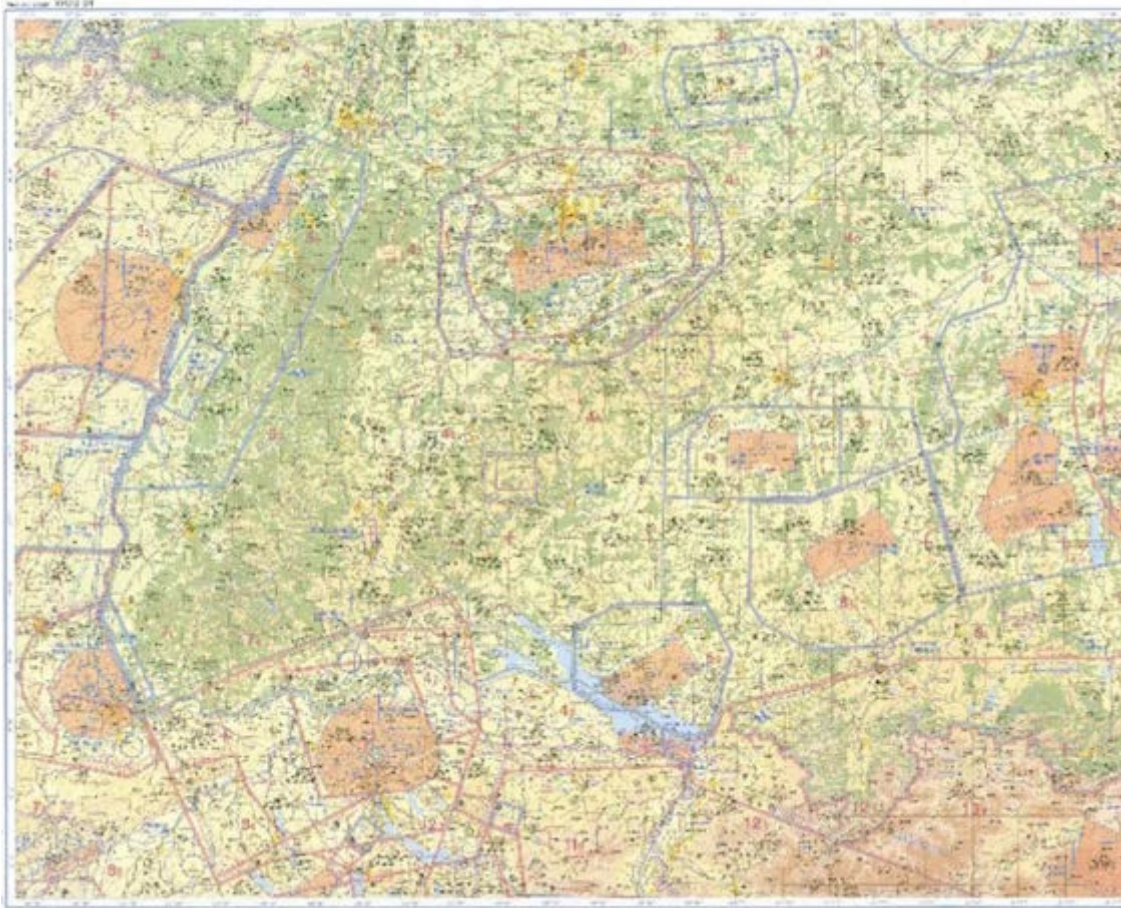
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06. Refer to the General Student Pilot Route Manual ED-4: Flying VFR from PEITING (47°48.0'N, 010°55.5'E) to IMMENSTADT (47°33.5'N, 010°13.0'E). Determine the minimum altitude within a corridor 5 NM left and 5 NM right of the courseline in order to stay 1000 ft clear of obstacles.



- a) 5500'
- b) 6600'
- c) 6900'
- d) 5300'

07. An aircraft travels 100 statute miles in 20 min, how long does it take to travel 215 NM?

- a) 100 min
- b) 90 min
- c) 50 min
- d) 80 min

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08. Two places on the parallel of 47°S lie 757,8 km apart. Calculate the difference in longitude.

- a) 10°00'
- b) 9°19'
- c) 4°51'
- d) 4°39'

09. What does the phrase 'Go ahead' mean:

- a) Proceed with your message
- b) Yes
- c) Pass me the following information...
- d) Taxi on

10. A commander shall not take-off for an IFR flight unless information is available indicating that the expected weather conditions at the destination and/or required alternate aerodrome(s) are:

- a) At the estimated time of arrival, at or above the planning minima.
- b) During a period from 1 hour before to 1 hour after the estimated time of arrival at the aerodrome, at or above the planning minima.
- c) At the estimated time of arrival better than the minimum conditions required for aerodrome use.
- d) At the estimated time of arrival, and for a reasonable period before and after such a predicted time, equal to or better than the minimum conditions required for aerodrome use.

11. Blind transmission shall be made:

- a) On the designated frequency (frequency in use)
- b) During IFR flights only
- c) On regional guard frequencies only
- d) To all available aeronautical stations

12. A great circle track crosses the equator at 30°W has an initial track of 035°T. Its highest or lowest North/South point is:

- a) 55°S 060°W
- b) 35°N 150°W
- c) 35°S 150°E
- d) 55°N 060°E

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13. When suffering from Hypoxia short-term memory impairment starts at approximately at:

- a) 10,000 ft
- b) 18,000 ft
- c) 12,000 ft
- d) 25,000 ft

14. The upper wind and temperature chart of 250 hPa corresponds, in a standard atmosphere, to about

- a) 39 000 FT
- b) 30 000 FT
- c) 34 000 FT
- d) 32 000 FT

15. The lowest point of the thrust required curve of a jet aeroplane is the point for:

- a) Maximum specific range
- b) Minimum drag
- c) Minimum specific range
- d) Minimum endurance

16. Which of the following statements is true ?

- a) QNH can be equal to QFE
- b) QNH is always equal to QFE
- c) QNH is always higher than QFE
- d) QNH is always lower than QFE

17. Given: Dry operating mass (DOM)= 33510 kg Traffic Load= 7600 kg. Final reserve fuel= 983 kg Alternate fuel= 1100 kg Contingency fuel 102 kg. The estimated landing mass at alternate should be:

- a) 42093 kg.
- b) 42195 kg.
- c) 42312 kg.
- d) 42210 kg.

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18. At 50 feet AGL during an auto-land, what happens to the glideslope signal?

- a) Is disconnected.
- b) Is used to flare the aircraft.
- c) Is factored for range.
- d) Is used until the nose landing gear touches the ground.

19. 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°

20. An OBS is set to 048 with a TO flag showing. The VOR deviation bar is showing almost full right deflection. Approximately what radial are you on?

- a) 038
- b) 058
- c) 238
- d) 218

21. 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

22. What is the approximate composition of the dry air by volume in the troposphere?

- a) 88 % oxygen, 9 % nitrogen, and the rest other gasses
- b) 10 % oxygen, 89 % nitrogen, and the rest other gasses
- c) 50 % oxygen, 40 % nitrogen, and the rest other gasses
- d) 21 % oxygen, 78 % nitrogen, and the rest other gasses

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23. Departure procedure - Design. The main factor/s that dictate/s in general the design of an instrument departure procedure is/are:

- a) ATC availability and requirements.
- b) Availability of navigation aids.
- c) The terrain surrounding the aerodrome.
- d) Airspace restrictions applicable and in force.

24. An aircraft experiencing radio communication failure on an IFR flight in IMC is assumed to:

- a) Proceed to an area from where the flight can be continued according to the visual flight rules
- b) Proceed in accordance with the current flight plan to the designated navigation aid serving the destination aerodrome
- c) Execute a VMC approach at the nearest suitable aerodrome
- d) Divert to the most suitable aerodrome according to the route of flight

25. The operation of the radio altimeter of a modern aircraft is based on:

- a) A combination of frequency modulation and pulse modulation.
- b) Frequency modulation of the carrier wave.
- c) Pulse modulation of the carrier wave.
- d) Amplitude modulation of the carrier wave.

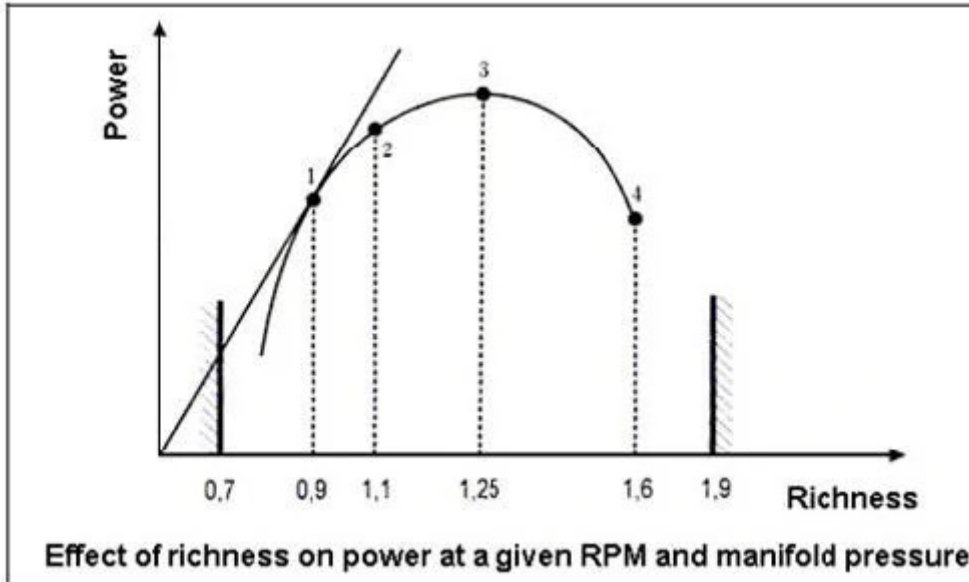
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26. On the attached diagram showing the power output of a piston engine as a function of mixture richness, best economy is at the point marked:



- a) 3
- b) 2
- c) 4
- d) 1

27. When flaps are deployed at constant angle of attack the lift coefficient will:

- a) Increase
- b) Vary as the square of IAS
- c) Remain the same
- d) Decrease

28. Information received from the senses is lost:

- a) Within 10 - 20 seconds unless it is rehearsed and deliberately placed in the Long Term Memory.
- b) Only if you suffer from brain damage or disease.
- c) If you choose to store the information in one of the sensory memories (e.g. Iconic or Echoic memories).
- d) If an additional action takes place (e.g.: pulling a circuit breaker or extinguishing a warning light).

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29. Which of the following applies to carbon monoxide poisoning?

- a) The human body shows no sign of carbon monoxide poisoning.
- b) Inhaling carbon monoxide leads to hyperventilation.
- c) Several days are needed to recuperate from a carbon monoxide poisoning.
- d) A very early symptom for realising carbon monoxide poisoning is euphoria.

30. Induced drag may be reduced by:

- a) An increase in the taper ratio of the wing
- b) A decrease of the aspect ratio
- c) An increase in aspect ratio
- d) The use of a wing tip with a much thinner aerofoil

31. Carbon monoxide (CO) poisoning in flight:

- a) Can be cured by breathing into a plastic bag to retain the carbon monoxide.
- b) Presents an extremely dangerous situation as the blood may not be able carry sufficient amounts of oxygen to vital cells and tissues of the body.
- c) Is a complication when hyperventilating and requires its own special and individual treatment.
- d) Is usually harmless because oxygen is more easily attached to haemoglobin than carbon monoxide to a magnitude of 200 times.

32. How does the total drag vary as speed is increased from stalling speed (VS) to maximum IAS (VNE) in a straight and level flight at constant weight?

- a) Decreasing, then increasing
- b) Increasing, then decreasing
- c) Increasing
- d) Decreasing

33. In case the transponder fails before the departure for an IFR flight, the pilot shall:

- a) Obtain prior permission by ATC to conduct the flight
- b) Inform ATC after departure
- c) Insert under item 18 of the flight plan 'transponder unserviceable'
- d) Inform FIS for relay to AIS

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34. If all long range navigation systems of an aircraft become unserviceable during a flight in NAT HLA (North Atlantic High Level Airspace), and if no instructions are received from the air traffic control, you must consider:

- a) Return to departure airport
- b) Descend below the NAT HLA space
- c) Land at the nearest airport
- d) Climbing or descending 500 feet

35. TCAS II (Traffic Collision Avoidance System) uses for its operation:

- a) The echoes from the ground air traffic control radar system.
- b) The echoes of collision avoidance radar system especially installed on board.
- c) The replies from the transponders of other aircraft.
- d) Both the replies from the transponders of other aircraft and the ground-based radar echoes.

36. The centre of gravity of an aeroplane is at 25% of the Mean Aerodynamic Chord. This means that the centre of gravity of the aeroplane is situated at 25% of the length of:

- a) The mean aerodynamic chord in relation to the datum
- b) The mean aerodynamic chord in relation to the trailing edge
- c) The aeroplane in relation to the leading edge
- d) The mean aerodynamic chord in relation to the leading edge

37. An aircraft in distress shall send the following signal by radiotelephony:

- a) PAN PAN, PAN PAN, PAN PAN
- b) DETRESFA, DETRESFA, DETRESFA
- c) URGENCY, URGENCY, URGENCY
- d) MAYDAY, MAYDAY, MAYDAY

38. According to PART-FCL, a professional flight crew license issued by a non-EASA State may be rendered valid for use on aircraft registered in a EASA Member State:

- a) At the discretion of the Authority of the Member State concerned for a period not exceeding the period validity of basic licence
- b) At the discretion of the Authority of that Member State concerned for a period not exceeding one year
- c) At the discretion of the Authority of that Member State concerned for a period not exceeding one year, provided that the basic licence remains valid
- d) At the discretion of the Authority of that Member State concerned for a period not exceeding two years, provided that the basic licence remains valid

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39. The Earth has been charted using:

- a) WGS84
- b) GPS84
- c) GD84
- d) WGP84

40. When flying on a westerly great circle track in the southern hemisphere you will:

- a) always have the rhumb line track between the departure point and the destination to the left of your great circle track.
- b) fly a spiral and finally end up at the South Pole.
- c) experience a decrease in the value of true track.
- d) experience an increase in the value of true track.

41. Which UK Flight Information Services are available to VFR flights in Class G airspace?

- a) Basic Service only.
- b) Traffic Service only.
- c) Basic Service and Traffic Service.
- d) Deconfliction Service and Procedural Service.

42. ILS is subject to false glide paths resulting from:

- a) Spurious signals reflected by nearby obstacles
- b) Multiple lobes of radiation patterns in the vertical plane
- c) Ground returns ahead of the antennas
- d) Back-scattering of antennas

43. How is the visibility in an aviation routine weather report (METAR) expressed in plain language:

- a) Up to 5000 m in metres, above in kilometres
- b) In nautical miles only
- c) In feet and nautical miles
- d) Up to 1500 m in metres, above in kilometres

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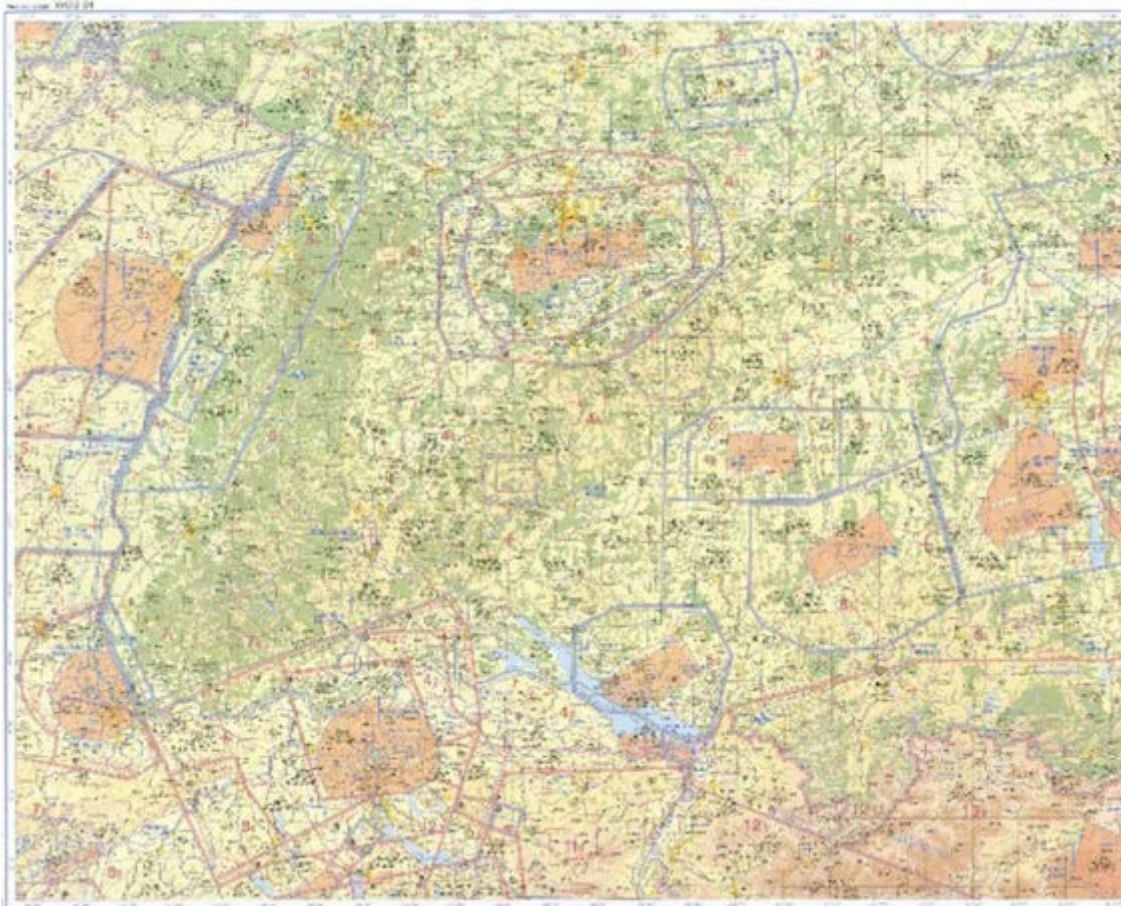


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44. Given: For take-off an aircraft requires a headwind component of at least 10 kt and has a cross-wind limitation of 35 kt. The angle between the wind direction and the runway is 60° , Calculate the minimum and maximum allowable wind speeds?

- a) 12 kt and 38 kt
- b) 20 kt and 40 kt
- c) 18 kt and 50 kt
- d) 15 kt and 43 kt

45. Refer to the Jeppesen General Student Pilot Route Manual - VFR Chart ED-4. An aeroplane is flying VFR and approaching position TANGO VORTAC ($48^\circ 37' N$, $009^\circ 16' E$) at FL 055 and magnetic course 090° , distance from VORTAC TANGO 20 NM. What is the frequency of the TANGO VORTAC.



- a) 112.50 MHz
- b) 109.20 MHz
- c) 422 kHz
- d) 118.80 MHz

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46. On a Direct Mercator chart at latitude of 45°N, a certain length represents a distance of 90 NM on the earth. The same length on the chart will represent on the earth, at latitude 30°N, a distance of:

- a) 73.5 NM
- b) 78 NM
- c) 110 NM
- d) 45 NM

47. What is the correct way to transmit and read back frequency 120.375 MHz (VHF channel separated by 25 kHz):

- a) One two zero decimal three seven five
- b) One twenty decimal three seven
- c) One two zero three seven
- d) One two zero decimal three seven

48. A direct reading compass should be swung when:

- a) The aircraft is stored for a long period and is frequently moved
- b) There is a large change in magnetic longitude
- c) The aircraft has made more than a stated number of landings
- d) There is a large, and permanent, change in magnetic latitude

49. The pressure system indicated when, in a vertical cross section, the lower situated pressure surfaces bulge upward and the higher situated pressure surfaces bulge downward is a:

- a) Cold low pressure area
- b) Warm low pressure area
- c) Cold high pressure area
- d) Warm high pressure area

50. What is the correct suffix to be used when establishing radio contact in an area control centre?

- a) Control
- b) Centre
- c) Control centre
- d) Radio

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51. 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.

52. The minimum radar separation to be provided to aircraft established on the localizer course shall be:

- a) 3.0 NM between aircraft on adjacent localizer course.
- b) 3.0 NM between aircraft on the same localizer course.
- c) 5.0 NM between aircraft on the same localizer course.
- d) 2.0 NM between aircraft on the same localizer course.

53. The coverage angle of the red navigation / position light is:

- a) 110°
- b) 220°
- c) 70°
- d) 140°

54. Independent parallel approaches may be conducted to parallel runways provided that:

- a) The missed approach track for one approach diverges by at least 25° (degrees) from the missed approach track of the adjacent approach
- b) The missed approach track for one approach diverges by at least 20° (degrees) from the missed approach track of the adjacent approach
- c) The missed approach track for one approach diverges by at least 45° (degrees) from the missed approach track of the adjacent approach
- d) The missed approach track for one approach diverges by at least 30° (degrees) from the missed approach track of the adjacent approach

55. The shortest distance between 2 points on the surface of the Earth is:

- a) Half the rhumb line distance.
- b) The arc of a small circle.
- c) Rhumb line.
- d) A great circle.

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56. Caffeine may cause an increase in cardiac rate, restlessness/nervousness, insomnia, anxiety and intestinal irritability. Excessive consumption is considered to be in excess of:

- a) 40-65 mg/day
- b) 3 mg/day
- c) 150 mg/day
- d) 250 mg/day

57. Which of the following mechanisms regulate body temperature when exposed to extreme high environmental temperatures? - 1: Shivering - 2: Vaso-constriction of peripheral blood vessels - 3: Sweating - 4: Vaso-dilation of peripheral blood vessels

- a) 2,3
- b) 1,3,4
- c) 1
- d) 3,4

58. Smoke detectors fitted on transport aircraft are of the following type:

- a) Chemical
- b) Optical or ionization
- c) Magnetic
- d) Electrical

59. The Flight Management Computer (FMC) position is:

- a) The actual position of the aircraft at any point in time
- b) The same as that given on the No. 1 IRS
- c) The computed position based on a number of sources (IRS, Radio, ILS, GPS etc)
- d) Another source of aircraft position; it is independent of other navigation sources (IRS, Radio, ILS, etc)

60. The value of the saturated adiabatic lapse rate is closest to that of the dry adiabatic lapse rate in:

- a) Freezing fog
- b) Stratus
- c) Cirrus
- d) Cumulus

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61. The volume of air exchanged during a normal breathing cycle (tidal volume) is about:

- a) 350 ml of air
- b) 150 ml of air
- c) 500 ml of air
- d) 75 ml of air

62. Which 'code letter' shall be chosen to identify a taxiway to be used by an aircraft having a wheel base of 15 m?

- a) Code letter 'D'
- b) Code letter 'F'
- c) Code letter 'E'
- d) Code letter 'C'

63. Which phenomenon is counteracted with differential aileron deflection?

- a) Aileron reversal.
- b) Sensitivity for spiral dive.
- c) Adverse yaw.
- d) Turn co-ordination.

64. Which of the following messages shall a station in control of distress use to impose silence?

- a) Stop transmitting, DISTRESS
- b) Stop transmitting, EMERGENCY
- c) Stop transmitting, MAYDAY
- d) All stations in this frequency, MAYDAY traffic

65. At a constant Mach number the thrust and the fuel flow of a jet engine

- a) Are independent of outside air temperature (OAT).
- b) Increase with increasing altitude.
- c) Increase in proportion to the ambient pressure at constant temperature.
- d) Decrease in proportion to the ambient pressure at constant temperature.

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66. An aeroplane is carrying a traffic load of 10320 kg. Complete the necessary sections of the attached appendix and determine which of the answers given below represents the maximum increase in the traffic load

- a) 7000 kg
- b) 8268 kg
- c) 1830 kg
- d) 655 kg

67. When two DC generators are operating in parallel, control of load sharing is achieved by:

- a) An equalising circuit which, in turn, controls the speed of the generators.
- b) The synchronous busbar.
- c) Carrying out systematic load-shedding procedures.
- d) An equalising circuit which, in conjunction with the voltage regulators, varies the field excitation current of the generators.

68. An aircraft is flying at an indicated altitude of 16.000 ft. The outside air temperature is -30°C. What is the true altitude of the aircraft?

- a) 16.200 ft
- b) 18.600 ft
- c) 15.200 ft
- d) 13.500 ft

69. On the display of a TCAS II (Traffic alert and Collision Avoidance System), a traffic advisory (TA) is represented by:

- a) A white or cyan empty lozenge.
- b) A white or cyan solid lozenge.
- c) An amber solid circle.
- d) A red full square.

70. Arrival and Approach segments, General. What are the names of all separate segments that can be part of an instrument approach procedure?

- a) Initial, intermediate, final.
- b) Arrival, holding, initial, intermediate, final, missed approach.
- c) Arrival, initial, intermediate, final, missed approach.
- d) Descend, holding arrival, initial, intermediate, final, missed approach.

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Response Scheme

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

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