

# Exam simulation

ATPL - Airline Transport Pilot license - Air Law



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STUDENT NAME:

DATE AND TIME:

## 01. Atmospheric refraction:

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- a) Causes the sunrise to occur later and the sunset to occur earlier.
- b) Causes the sunrise and the sunset to occur earlier.
- c) Causes the sunrise and the sunset to occur later.
- d) Causes the sunrise to occur earlier and the sunset to occur later.

## 02. How long does a typical microburst last?

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- a) 1 to 5 minutes.
- b) 1 to 2 hours.
- c) Less than 1 minute.
- d) About 30 minutes.

## 03. With zero wind, the angle of attack for maximum range for an aeroplane with turbojet engines is:

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- a) Lower than the angle of attack corresponding to maximum endurance
- b) Equal to the angle of attack corresponding to maximum lift to drag ratio
- c) Equal to the angle of attack corresponding to zero induced drag
- d) Equal to the angle of attack corresponding to maximum endurance

## 04. On the ground, during a right turn, the turn indicator indicates:

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- a) Needle to the right, ball to right
- b) Needle to the right, ball to left
- c) Needle in the middle, ball to left
- d) Needle in the middle, ball to right

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**05. Position "Elephant Point" is situated at (58°00'N, 135°30'W). Standard time for this location is listed in the Air Almanac as UTC -8. If sunset occurs at 00:57 UTC on 21st January, what is the time of sunset in LMT?**

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- a) 15:55 on January 20th.
- b) 09:59 on January 21st.
- c) 16:57 on January 20th.
- d) 08:57 on January 21st.

**06. What is meant by presbycusis?**

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- a) Total loss of hearing in one ear due to use of a headset in the cockpit.
- b) Gradual loss of hearing with age.
- c) Gradual onset of long-sightedness with age.
- d) Total loss of hearing in both ears due to disease.

**07. The lift- and drag forces, acting on a wing cross section:**

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- a) Are normal to each other at just one angle of attack
- b) Depend on the pressure distribution about the wing cross section
- c) Vary linearly with the angle of attack
- d) Are proportional to each other, independent of angle of attack

**08. The VHF direction finder uses the following wavelengths:**

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- a) Decimetric.
- b) Hectometric.
- c) Centimetric.
- d) Metric.

**09. Which word or phrase shall be used when giving authorization to proceed under specified conditions?**

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- a) Approved
- b) Go ahead
- c) I say again: proceed
- d) Cleared

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## 10. What does the word 'cancel' mean?

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- a) A change has been made to your last clearance
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) Consider that transmission as not sent

## 11. Compared with level flight prior to the stall, the lift (1) and drag (2) in the stall change as follows:

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- a) (1) decreases (2) decreases
- b) (1) increases (2) increases
- c) (1) decreases (2) increases
- d) (1) increases (2) decreases

## 12. Which statement, in relation to the climb limited take-off mass of a jet aeroplane, is correct?

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- a) The climb limited take-off mass is determined at the speed for best rate of climb
- b) The climb limited take-off mass decreases with increasing OAT
- c) On high elevation airports equipped with long runways the aeroplane will always be climb limited
- d) 50% of a headwind is taken into account when determining the climb limited take-off mass

## 13. During climb to the cruising level, a headwind component:

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- a) Increases the climb time
- b) Increases the amount of fuel for the climb
- c) Decreases the climb time
- d) Decreases the ground distance flown during that climb

## 14. The degree of clear air turbulence experienced by an aircraft is proportional to the

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- a) Stability of the air
- b) Height of the aircraft
- c) Intensity of the solar radiation
- d) Intensity of vertical and horizontal wind shear

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## 15. To perform a VFR flight in airspace classification E:

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- a) A clearance is required.
- b) A clearance and two-way radio communication is required.
- c) Two way radio communication is not required.
- d) A clearance and/or two-way radio communication is required.

## 16. The purpose of the TAS input, from the air data computer, to the Inertial Navigation System is for:

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- a) position update in Attitude mode
- b) position update in Navigation mode
- c) the calculation of wind velocity
- d) the calculation of drift

## 17. Which of the following radar equipment operate by means of the pulse technique? 1. Aerodrome Surface Movement Radar 2. Airborne Weather Radar 3. Secondary Surveillance Radar (SSR) 4. Aerodrome Surveillance (approach) Radar

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

## 18. What actually happens in the ADF receiver when the BFO position is selected?

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- a) The BFO circuit is de-activated
- b) The BFO circuit oscillates at an increased frequency in order to allow identification of A2A NDBs
- c) The BFO circuit is activated, and the receiver accepts only A1A modulated signals
- d) The BFO circuit imposes a tone onto the carrier wave to make the NDB's ident audible

## 19. Increasing dynamic pressure will have the following effect on the drag of an aeroplane (all other factors of importance remaining constant):

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- a) None
- b) Drag decreases across the whole speed range
- c) At speeds greater than the minimum drag speed, drag increases
- d) Drag increases across the whole speed range

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**20. An aircraft obtains a relative bearing of  $315^\circ$  from an NDB at 0830. At 0840 the relative bearing from the same NDB is  $270^\circ$ . Assuming no drift and a GS of 240 kt, what is the approximate range from the NDB at 0840?**

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- a) 40 NM
- b) 30 NM
- c) 60 NM
- d) 50 NM

**21. With regard to pneumatic de-ice boots, the only correct statement is:**

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- a) They can only be used for anti-icing.
- b) They are widely used on transport aircraft because they require very little maintenance.
- c) The inflatable boots are arranged perpendicular to the leading edge.
- d) They are used as a de-icing system, not as a continuous anti-icing system.

**22. How does the Electronic Flight Instrument System display of a modern transport aircraft respond to the failure of a VHF navigation (VOR) receiver?**

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- a) The pointer rotates around the display and a VOR 1 or 2 failure warning bar appears
- b) It removes the associated magenta deviation bar and/or pointer from the display
- c) The pointer flashes and a VOR 1 or 2 failure warning bar appears
- d) The deviation bar and/or pointer change colour to red and flash intermittently

**23. Given: Distance from departure to destination: 330 NM Endurance: 5 h True Track:  $170^\circ$  W/V:  $140/25$  TAS: 125 kt. What is the distance of the PSR from the departure point?**

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- a) 194 NM
- b) 150 NM
- c) 303 NM
- d) 30 NM

**24. During initiation of a turn with speedbrakes extended, the roll spoiler function induces a spoiler deflection:**

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- a) Upward on the upgoing wing and downward on the downgoing wing.
- b) Downward on the upgoing wing and upward on the downgoing wing.
- c) On the downgoing wing only.
- d) On the upgoing wing only.

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## 25. What is meant by the phrase 'readability 4'?

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

## 26. A ground proximity warning system (GPWS), when mandatory installed on board an aircraft, must in all cases generate:

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- a) At least one sound alarm to which a visual alarm can be added
- b) A visual alarm to which a sound alarm can be added
- c) A sound and visual alarm
- d) A sound alarm or a visual alarm

## 27. A SAFE LIFE aircraft structural component:

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- a) Has parallel load paths.
- b) May be used during a declared number of cycles or flight hours.
- c) Should have enough strength during the whole lifetime of an aircraft.
- d) Is so strong that it never will fail during a declared time period.

## 28. The principle of damage tolerance in structural design of an aircraft is based on the:

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- a) Fact that there is no need to inspect the structure.
- b) Replacement of parts after a given number of cycles or hours of use.
- c) Monitoring of critical parameters and the replacement of parts if a limit value is exceeded.
- d) Capability to withstand a certain amount of weakening of the structure without catastrophic failure.

## 29. A Traffic Service provides:

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- a) Specific surveillance-derived traffic information to assist the pilot in avoiding other traffic.
- b) Information for IFR traffic only.
- c) Traffic information and deconfliction advice.
- d) Radar separation from all other traffic.

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## 30. What does the abbreviation 'FIR' mean?

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- a) Flight information required.
- b) Flight information region.
- c) Flight information radar.
- d) Flow information received.

## 31. During certification test flights for a turbojet aeroplane, the actual measured take-off runs from brake release to a point equidistant between the point at which VLOF is reached and the point at which the aeroplane is 35' above the take-off surface are: - 1747 m, all engines operating; - 1950 m, with the critical engine failure recognized at V1, the other factors remaining unchanged. Considering both possibilities to determine the take-off run (TOR). What is the correct distance?

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- a) 2243 m
- b) 2096 m
- c) 2009 m
- d) 1950 m

## 32. An airline is planning a flight that will require a Technical landing in a neighbouring state. Which freedom of the Air will be exercised?

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- a) 3rd freedom
- b) 1st freedom
- c) 4th freedom
- d) 2nd freedom

## 33. What does the word 'wilco' mean?

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- a) I read you five
- b) I have received all of your last transmission
- c) As communication is difficult, I will call you later
- d) I understand your message and will comply with it

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**34. The reason for the fact that an aeroplane designed for long distances cannot simply be used for short haul flights at higher frequencies is that**

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- a) These aeroplanes often consume too much fuel on short haul flights.
- b) The procedures and checklists for this kind of aeroplanes will take too much time.
- c) In that case some fuel tanks remain empty during the whole flight, which stresses the aeroplane's structure in an unacceptable way.
- d) The lifetime of the fatigue sensitive parts has been based on a determined load spectrum.

**35. What does the phrase 'Squawk 1234' mean:**

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- a) Make a test transmission on 123.4 MHz
- b) Give a short count for DF (direction finder)
- c) Standby on frequency 123.4 MHz
- d) Select code 1234 on the SSR transponder

**36. Prior to departure an aircraft is loaded with 16500 litres of fuel at a fuel density of 780 kg/m<sup>3</sup>. This is entered into the load sheet as 16500 kg and calculations are carried out accordingly. As a result of this error, the aircraft is**

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- a) Lighter than anticipated and the calculated safety speeds will be too low
- b) Lighter than anticipated and the calculated safety speeds will be too high
- c) Heavier than anticipated and the calculated safety speeds will be too low.
- d) Heavier than anticipated and the calculated safety speeds will be too high

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

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- 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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**38. An aircraft is over position HO (55°30'N 060°15'W), where YYR VOR (53°30'N 060°15'W) can be received. The magnetic variation is 31°W at HO and 28°W at YYR. What is the radial from YYR?**

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- a) 028°
- b) 332°
- c) 031°
- d) 208°

**39. An island appears 45° to the right of the centre line on an airborne weather radar display. What is the true bearing of the aircraft from the island if at the time of observation the aircraft was on a magnetic heading (MH) of 215° with the magnetic variation (VAR) 21°W?**

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- a) 059°
- b) 329°
- c) 239°
- d) 101°

**40. Which of these statements about structural design are correct and incorrect? 1) In structural design, FAIL SAFE implies the structure will never fail. 2) In structural design, SAFE LIFE implies the structure will never fail during a declared time period or number of cycles.**

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

**41. Which one of the following errors can be compensated for by a NAVSTAR/GPS receiver comparing L1 and L2 frequencies?**

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- a) Tropospheric
- b) Multipath
- c) Receiver noise
- d) Ionospheric

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**42. At the destination aerodrome the landing distance available is 3000 m. The appropriate weather forecast indicates that the runway at the estimated time of arrival will be wet. For a commercial flight the mass of a turbojet aeroplane at landing must be such that the aeroplane can be landed within:**

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- a) 2609 m
- b) 1800 m
- c) 2070 m
- d) 1565 m

**43. When radar identification of aircraft has been achieved, ATC unit shall:**

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- a) Inform the aircraft only if communication's load permits it.
- b) Inform the aircraft prior to issue any instructions or advice based on the use of radar.
- c) Inform the aircraft only if radar identification has been achieved without availability of SSR.
- d) Not advise the aircraft before issuing instructions.

**44. 1. Psychosomatic means that a physiological problem is followed by psychological stress. 2. Psychosomatic complaints hardly occur in professional aviation because of the strict selection for this particular profession.**

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- a) 1 and 2 are both not correct
- b) 1 is not correct, 2 is correct
- c) 1 is correct, 2 is not correct
- d) 1 and 2 are both correct

**45. Motivation is a quality which is often considered vital in the pilot's work to maintain safety.**

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- a) Motivation reduces the intensity of sensory illusions
- b) A high degree of motivation makes it possible to make up for insufficient knowledge in complete safety
- c) However, excessive motivation leads to stress which adversely affects performance
- d) A high degree of motivation lowers the level of vigilance

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## 46. A pilot is required to read back the following ATC message:

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- a) altimeter settings, airways clearances, SSR operating instructions, level instructions and any messages when requested by ATC.
- b) altimeter settings, weather information, information regarding the proximity of other aircraft and taxi instructions.
- c) altimeter settings, taxi instructions, takeoff clearances, weather information and any other information given by ATC.
- d) altimeter settings, weather information, airways clearances, information regarding the proximity of other aircraft and taxi instructions.

## 47. Permanent magnetism in aircraft arises chiefly from:

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- a) Exposure to the earth's magnetic field during normal operation
- b) Hammering, and the effect of the earth's magnetic field, whilst under construction
- c) The effect of internal wiring and exposure to electrical storms
- d) The combined effect of aircraft electrical equipment and the earth's magnetic field

## 48. The distress message shall contain as many as possible of the following elements/details:

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- a) Aircraft call sign, route of flight, destination airport
- b) Aircraft call sign, aerodrome of departure, position and level
- c) Aircraft call sign, nature of distress, pilot's intention, present position, level and heading
- d) Aircraft call sign, present position, assistance required

## 49. One method to compensate adverse yaw is:

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- a) A differential aileron.
- b) A balance panel.
- c) An anti-balance tab.
- d) A balance tab.

## 50. Given: True heading = 310° TAS = 200 ktGS = 176 kt. Drift angle 7° right. Calculate the W/V?

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- a) 090° / 33 kt
- b) 360° / 33 kt
- c) 180° / 33 kt
- d) 270° / 33 kt

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**51. An aeroplane whose maximum approved configuration is 200 passenger seats must be equipped with:**

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- a) 3 hand fire extinguishers in the compartment.
- b) 4 hand fire extinguishers in the passenger compartment.
- c) 7 hand fire extinguishers in the passenger compartment.
- d) 5 hand fire extinguishers in the passenger compartment.

**52. Which of the following is most likely to be overlooked should a pilot make a rushed decision?**

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- a) The skills of air traffic controllers
- b) Analysis of the current actual situation and instead applying a decision prepared beforehand
- c) The captain's superior knowledge, justified by his/her status
- d) The need to take account of every possible result or outcome

**53. The total length of the 53°N parallel of latitude on a direct Mercator chart is 133 cm. What is the approximate scale of the chart at latitude 30°S?**

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- a) 1: 30 000 000
- b) 1: 25 000 000
- c) 1: 21 000 000
- d) 1: 18 000 000

**54. In the northern hemisphere, during deceleration following a landing in a northerly direction, a direct reading magnetic compass indicates:**

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- a) No apparent turn.
- b) A heading fluctuating about 360°.
- c) An apparent turn to the west.
- d) An apparent turn to the east.

**55. Equivalent Air Speed (EAS) is:**

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- a) Calibrated Air Speed (CAS) corrected for compressibility error.
- b) True Air Speed (TAS) corrected for compressibility error.
- c) Calibrated Air Speed (CAS) corrected for density error.
- d) True Air Speed (TAS) corrected for compressibility and density errors.

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**56. Given: Distance from departure to destination 2800 NM True track 140 W/V 140/100 TAS 500 kt What is the distance and time of the PET from the departure point?**

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- a) Distance: 1400 NM Time: 168 min
- b) Distance: 1120 NM Time: 112 min
- c) Distance: 1120 NM Time: 134 min
- d) Distance: 1680 NM Time: 252 min

**57. In the ATC flight plan Item 19, emergency and survival equipment carried on the flight should be indicated by:**

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- a) Placing a tick in the relevant box
- b) Circling the relevant box
- c) Listing the items carried on the 'REMARKS' line
- d) Crossing out the box relevant to any equipment not carried

## 58. The Mach number:

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- a) Is the ratio between the TAS of the aeroplane and the speed of sound at sea level.
- b) Is the ratio between the IAS of the aeroplane and the local speed of sound.
- c) Is the ratio between the TAS of the aeroplane and the local speed of sound.
- d) Increases at a given TAS, when the temperature rises.

## 59. Given: Distance 'A' to 'B' 1973 NM Groundspeed 'out' 430 kt Groundspeed 'back' 385 kt The time from 'A' to the Point of Equal Time (PET) between 'A' and 'B' is:

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- a) 130 MIN
- b) 181 MIN
- c) 162 MIN
- d) 145 MIN

## 60. For turbojet engine driven aeroplane, given: Taxi fuel 600 kg. Fuel flow for cruise 10000 kg/h. Fuel flow for holding 8000 kg/h. Alternate fuel 10200 kg. Planned flight time to destination 6 h. Forecast visibility at destination 2000 m. The minimum ramp fuel required is:

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- a) 76100 kg
- b) 80500 kg
- c) 77800 kg
- d) 79200 kg

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**61. Given: Distance A to B = 120 NM, After 30 NM aircraft is 3 NM to the left of course. What heading alteration should be made in order to arrive at point 'B'?**

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- a) 4° right
- b) 6° right
- c) 8° left
- d) 8° right

**62. In a hydraulic system, the reservoir is pressurized in order to:**

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- a) Seal the system
- b) Keep the hydraulic fluid at optimum temperature
- c) Prevent pump cavitation
- d) Reduce fluid combustibility

**63. Which of the following calls is a 'general call'?**

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- a) ALL STATIONS Stephenville CONTROL
- b) YX-EFG, YX-FGH over
- c) YX-DEF Stephenville CONTROL
- d) YX-ABC, YX-BCD, YX-CDE Stephenville CONTROL

**64. Radio silence can be imposed by an aeronautical station in case of:**

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- a) Urgency communication
- b) Distress traffic
- c) Technical difficulties
- d) Overload of the frequency

**65. What does the abbreviation 'INS' mean?**

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- a) Instrument navigation system
- b) International NOTAM system
- c) Inertial navigation system
- d) International navigation service

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**66. The probe used to measure the air intake pressure of a gas turbine engine powerplant is:**

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- a) An aneroid capsule.
- b) A bellows sensor.
- c) A Bourdon tube.
- d) A differential capsule.

**67. The objectives of ICAO were ratified by the:**

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- a) Chicago convention 1944
- b) Geneva convention 1936
- c) Geneva convention 1948
- d) Warsaw convention 1929

**68. Which one of the following statements is correct concerning the movement of the ITCZ in the region of West Africa?**

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- a) It reaches its maximum northerly position of  $15^{\circ}$  -  $20^{\circ}$  N in July
- b) It oscillates during the year between the Equator and 10 degrees North.
- c) It oscillates during the year between 10 degrees North and 10 degrees South.
- d) It reaches its maximum southerly position of  $5^{\circ}$  S in January

**69. What is the transponder code for radio communication failure:**

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- a) 7500
- b) 6700
- c) 7700
- d) 7600

**70. A VOR is sited at position A ( $45^{\circ}00'N$ ,  $010^{\circ}00'E$ ). An aircraft is located at position B ( $44^{\circ}00'N$ ,  $010^{\circ}00'E$ ). Assuming that the magnetic variation at A is  $10^{\circ}W$  and at B is  $15^{\circ}W$ , the aircraft is on VOR radial:**

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- a)  $195^{\circ}$
- b)  $185^{\circ}$
- c)  $190^{\circ}$
- d)  $180^{\circ}$

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## Response Scheme

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

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

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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: _____		