

# Exam simulation

ATPL - Airline Transport Pilot license, 120 questions on 120 minutes!



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STUDENT NAME:

DATE AND TIME:

## 01. Concerning the effects of drugs and pilot's performance

- a) The primary and the side effects have to be considered
- b) Only the primary effect has to be considered
- c) Side effects are negligible
- d) Medication has no influence on pilot's performance

## 02. Tetanus is transmitted through:

- a) Bacteria in the form of spores via a puncture in the skin
- b) Food or water which has been contaminated
- c) Insect bites
- d) Droplets in the air cause by the breath of an infected person

## 03. An applicant for an Airline Transport Pilot Licence shall have completed in aeroplanes not less than:

- a) 75 hours of instrument time, of which not more than 30 hours may be instrument ground time.
- b) 75 hours of instrument time, of which not more than 20 hours of instrument ground time.
- c) 150 hours of instrument time, of which not more than 75 hours of instrument ground time.
- d) 100 hours of instrument time, of which not more than 30 hours of instrument ground time

## 04. The speed for maximum endurance

- a) Is the lower speed to achieve 99% of maximum specific range.
- b) Can either be higher or lower than the speed for maximum specific range.
- c) Is always lower than the speed for maximum specific range.
- d) Is always higher than the speed for maximum specific range.

## 05. If, in the event of a failure, there is no significant out-of-trim condition or deviation of flight path or attitude but the landing is not completed automatically, such an automatic landing system is considered as:

- a) Fail-operational.
- b) Fail-safe.
- c) Fail-passive.
- d) Fail-redundant.

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**06. Which of the following statements is true?**

- a) Flight in severe turbulence may lead to a stall and/or structural limitations being exceeded
- b) Flap extension in severe turbulence at constant speed moves the centre of pressure aft, which increases the structural limitation margins
- c) By increasing the flap setting in severe turbulence at constant speed the stall speed will be reduced and the risk for exceeding the structural limits will be decreased
- d) Flap extension in severe turbulence at constant speed increases both the stall speed and the structural limitation margins

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**07. An aircraft station fails to establish radio contact with an aeronautical station on the designated frequency. What action is required by the pilot:**

- a) Return to the airport of departure
- b) Continue the flight to the destination airport without any communication
- c) Land at the nearest airport without an ATC unit
- d) Attempt to establish contact with the station on an alternative frequency

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**08. Dangerous stall characteristics, in large transport aeroplanes that require stick pushers to be installed, include:**

- a) Pitch down and yaw
- b) Distinct aerodynamic buffet
- c) Excessive wing drop and deep stall
- d) Pitch down and increase in speed

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**09. On the readability scale what does READABILITY 1 mean?**

- a) Readable but with difficulty.
- b) Unreadable.
- c) Readable.
- d) Perfectly readable.

---

**10. For purpose of wake turbulence separation, what is the ICAO minimum separation time if a light aeroplane (7000 kg or less) is following a medium aeroplane (less than 136000 kg but more than 7000 kg) on the approach to landing ?**

- a) 5 minutes
- b) 4 minutes
- c) 2 minutes
- d) 3 minutes

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**11. What will happen to the geometrical pitch angle of a 'constant speed propeller' if the manifold pressure is increased ?**

---

- a) It Will Increase And After A Short Time It Will Be The Same Again
- b) It will decrease so that the engine can increase
- c) It will increase
- d) It Will Remain The Same

**12. A direct reading compass should be swung when:**

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- 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

**13. Which of the following is true according to regulations for turbo propeller powered aeroplanes not performing a steep approach?**

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- a) Maximum Landing Distance at destination is  $0,95 \times \text{LDA}$  (Landing Distance Available).
- b) Maximum use of clearway is  $1,5 \times \text{runway}$ .
- c) Maximum Landing Distance at the destination aerodrome and at any alternate aerodrome is  $0,7 \times \text{LDA}$  (Landing Distance Available).
- d) Maximum Take-off Run is  $0,5 \times \text{runway}$ .

**14. A category D aeroplane can carry out a circling approach only if the meteorological visibility is higher than or equal to:**

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- a) 2400 m
- b) 1600 m
- c) 3600 m
- d) 1500 m

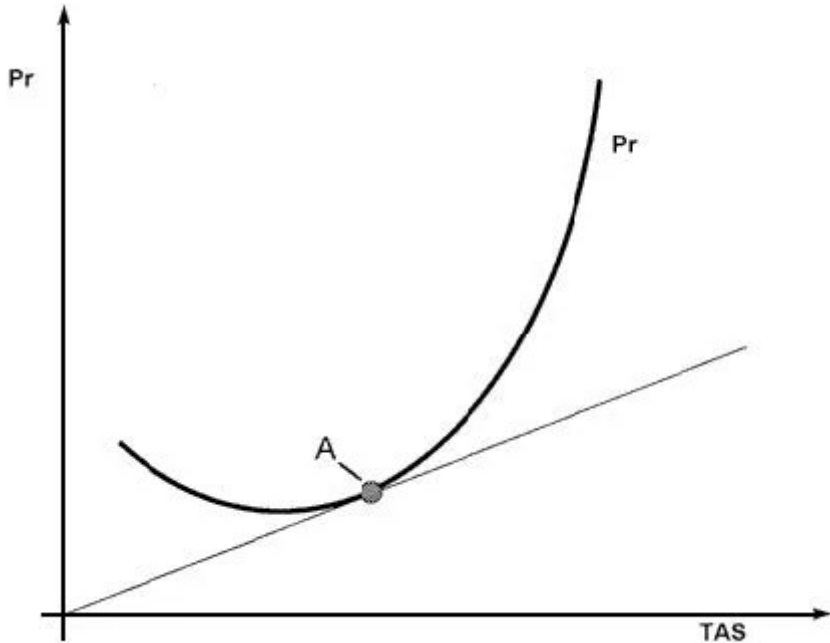
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15. Consider the graphic representation of the power required versus true air speed (TAS), for a piston engine aeroplane with a given mass. When drawing the tangent from the origin, the point of contact (A) determines the speed of:



- a) Maximum specific range
- b) Critical angle of attack
- c) Maximum thrust
- d) Maximum endurance

16. The Ground Proximity Warning System (GPWS) is a system working according to a height span ranging from:

- a) 50 ft to 2 500 ft
- b) The ground to 500 ft
- c) 30 ft to 5 000 ft
- d) The ground to 1 000 ft

17. Given: Position 'A' is  $N00^{\circ} E100^{\circ}$ , Position 'B' is  $240^{\circ}(T)$ , 200 NM from 'A'. What is the position of 'B'?

- a)  $N01^{\circ}40' E097^{\circ}07'$
- b)  $S01^{\circ}40' E097^{\circ}07'$
- c)  $N01^{\circ}40' E101^{\circ}40'$
- d)  $S01^{\circ}40' E101^{\circ}40'$

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**18. A tubeless tyre is a tyre 1. which requires solid or branched wheels 2. whose valve can be sheared in sudden accelerations 3. whose mounting rim must be flawless 4. which requires no rim protection between rim flange and tire removing device 5 . which does not burst in the event of a tire puncture 6. which eliminates internal friction between the tube and the tire The combination regrouping all the correct statements is:**

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- a) 1, 5, 6.
- b) 2, 3, 2006.
- c) 1, 2, 2005.
- d) 3, 4, 2005.

**19. The FMS Overfly function consists in:**

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- a) Manually selecting a flight plan waypoint to fly over when sequencing it instead of flying by at the transition.
- b) Manually selecting a flight plan waypoint to hold over for a selected time.
- c) Selecting the secondary flight plan making it active to fly over the legs.
- d) Manually selecting a flight plan to fly over each of the waypoints at the transitions along the route.

**20. The identification of each prohibited, restricted and danger area shall be composed by:**

---

- a) The nationality letters for location indicators assigned to the state or territory, followed the letters P. R and D and figures
- b) The letters P (Prohibited), R (Restricted) and D (Dangerous) followed by figures
- c) The nationality letters for the location indicators assigned to the state, followed by P, R and D
- d) The letters P (Prohibited), R (Restricted) and D (Dangerous) for the area concerned and figures

**21. Critical Mach number is the free stream Mach number at which:**

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- a) There is subsonic flow over all parts of the aeroplane.
- b) Local supersonic flow first exists on any part of the aeroplane.
- c) The aeroplane has zero buffet margin.
- d) There is supersonic flow over all parts of the aeroplane.

**22. The take-off mass of an aeroplane is 117 000 kg, comprising a traffic load of 18 000 kg and fuel of 46 000 kg. What is the dry operating mass?**

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- a) 64 000 kg
- b) 53 000 kg
- c) 99 000 kg
- d) 71 000 kg

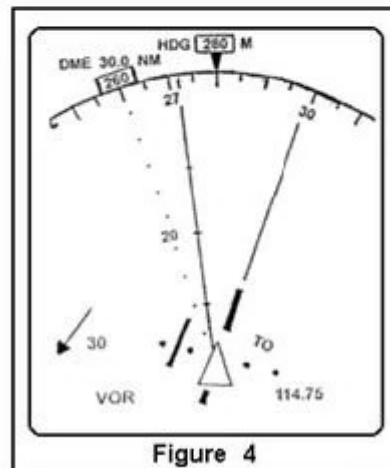
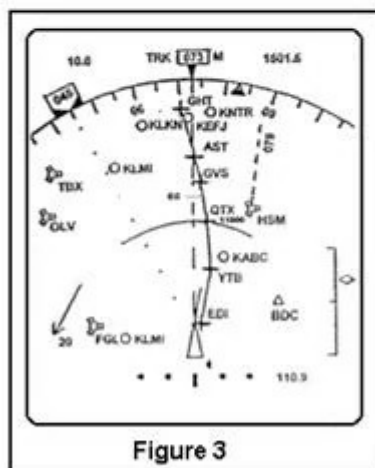
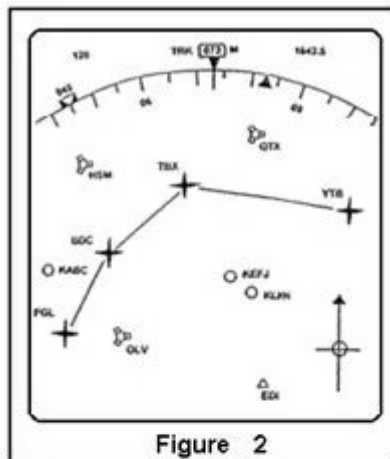
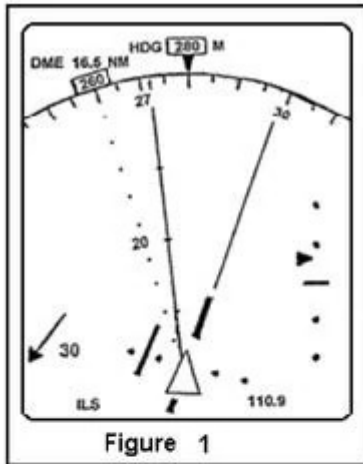
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23. Which of the figures depicts an Electronic Flight Instrument System (EFIS) display in Expanded (EXP) VOR/ILS mode with an ILS frequency selected?



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

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

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- 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

**25. When vectoring an aircraft to intercept the localizer course, the final vector furnished shall be such as to enable the aircraft to intercept the localizer course at an angle not greater than:**

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- a) 30 degrees.
- b) 20 degrees.
- c) 15 degrees.
- d) 25 degrees.

**26. The distress communication and silence conditions shall be terminated by transmitting a message. Which words shall this message include?**

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- a) Distress traffic ended
- b) Disregard distress communication, OUT
- c) MAYDAY traffic ended
- d) Emergency communication finished

**27. On a un-swept wing, when the aerofoil is accelerated from subsonic to supersonic speeds, the aerodynamic centre:**

---

- a) Shifts aft by about 10%.
- b) Remains unchanged.
- c) Shifts from 25% to about 50% of the aerofoil chord.
- d) Slightly shifts forward.

**28. Coaction is a mode of coordination which recommends:**

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- a) Sustained cooperation on actions and the formulation of commitments concerning flight situations
- b) Working parallel to achieve individual objectives
- c) The application of procedural knowledge in the conduct of specific actions
- d) Working in parallel to achieve one common objective

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**29. The manoeuvrability of an aeroplane is best when the:**

---

- a) Speed is low.
- c) G. position is on the forward G. limit. G. is on the aft G. limit.
- d) Flaps are down.

**30. The CVR (Cockpit Voice Recorder) includes:**1. a microphone2. a recorder in compliance with the shock and fire resistance standards3. an independent battery4. a flight data recorder  
**The combination regrouping all the correct statements is:**

---

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

**31. When stopping the rotation of a spin we have the sensation**

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- a) Of turning in the same direction
- b) That we are starting a spin in the opposite direction
- c) Of the immediate stabilization of the aircraft
- d) Of the sharp dipping of the nose of the aircraft

**32. The unit of density is:**

---

- a) Kg/cm<sup>2</sup>
- b) Psi
- c) Bar
- d) Kg/m<sup>3</sup>

**33. The time of useful consciousness in case of an explosive decompression at an altitude of 40 000 ft is:**

---

- a) 1 minute.
- b) 30 seconds.
- c) 5 minutes.
- d) 12 seconds.



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**34. In order to indicate unlawful interference with the planned operation of the flight, the aircraft Secondary Surveillance Radar (SSR) transponder should be selected to:**

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- a) 7600
- b) 7500
- c) 7000
- d) 7700

**35. What is the main cause for the formation of a polar front jet stream?**

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- a) The pressure difference, close to the ground, between a high over the Azores and a low over Iceland
- b) The varied elevations of the tropopause in the polar front region
- c) The north-south horizontal temperature gradient at the polar front
- d) Strong winds in the upper atmosphere

**36. A diluter demand oxygen regulator:**

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- a) Is Only Recommended For Use With Smoke In The Cockpit.
- b) Delivers oxygen flow only above FL 100.
- c) Mixes air and oxygen in a passenger oxygen mask.
- d) Delivers oxygen flow when inhaling.

**37. An aircraft making a radar approach should be directed to consider executing a missed approach if the aircraft is not visible on the radar display for any significant interval during the:**

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- a) Last 4 NM of the approach
- b) Last 3 NM of the approach
- c) Last 2 NM of the approach
- d) Last 5 NM of the approach

**38. What is the average track (°M) and distance between WTD NDB (N5211.3 W00705.0) and BAL VOR (N5318.0 W00626.9)?**

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

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**39. An aircraft is flying on a heading of 270°(M). The VOR OBS is also set to 270° with the full left deflection and FROM flag displayed. In which sector is the aircraft from the VOR ground station?**

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- a) NW
- b) NE
- c) SE
- d) 156 NM

**40. Low speed pitch up is caused by the:**

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- a) Spanwise flow on a swept back wing
- b) Mach trim system
- c) Wing tip vortex
- d) Spanwise flow on a swept forward wing

**41. What determines the longitudinal stability of an aeroplane ?**

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- a) The effectiveness of the horizontal stabilizer, rudder and rudder trim tab.
- b) The location of the centre of gravity with respect to the neutral point.
- c) The dihedral, angle of sweepback and the keel effect.
- d) The relationship of thrust and lift to weight and drag.

**42. Refer to Student Pilot Route Manual London, Heathrow (Plate 10- 3): Which of the following is a correct Minimum Safe Altitude (MSA) for the Airport?**

---

- a) West sector 2300 ft within 25 NM
- b) East sector 2100 ft within 50 NM
- c) West sector 2100 ft within 25 NM
- d) East sector 2300 ft within 50 NM[see Annex]

**43. In computer technology, an EPROM: 1) is a read-only memory 2) is a write memory 3) erases its content when power supply is cut off 4) keeps its content when power supply is cut off The combination re-grouping all the correct statements is:**

---

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

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**44. The use of a slot in the leading edge of the wing enables the aeroplane to fly at a slower speed because:**

---

- a) The laminar part of the boundary layer gets thicker
- b) It decelerates the upper surface boundary layer air
- c) It delays the stall to a higher angle of attack
- d) It changes the camber of the wing

**45. The one engine out take-off run is the distance between the brake release point and:**

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- a) The lift-off point
- b) The point where  $V_2$  is reached
- c) The middle of the segment between VLOF point and 35 ft point
- d) The point half way between  $V_1$  and  $V_2$

**46. The velocity maximum operating (V.M.O.) is a speed expressed in:**

---

- a) Equivalent airspeed (EAS).
- b) True airspeed (TAS).
- c) Calibrated airspeed (CAS).
- d) Computed airspeed (COAS).

**47. The distance between positions A and B is 180 NM. An aircraft departs position A and after having travelled 60 NM, its position is pinpointed 4 NM left of the intended track. Assuming no change in wind velocity, what alteration of heading must be made in order to arrive at position B?**

---

- a)  $8^\circ$  Right
- b)  $6^\circ$  Right
- c)  $4^\circ$  Right
- d)  $2^\circ$  Left

**48. The data supplied by a radio altimeter:**

---

- a) Is used only by the radio altimeter indicator.
- b) Concerns only the decision height.
- c) Is used by the automatic pilot in the altitude hold mode.
- d) Indicates the distance between the ground and the aircraft.

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**49. An aeroplane is loaded with its centre of gravity towards the rear limit. This will result in:**

---

- a) A reduction in power required for a given speed
- b) An increased risk of stalling due to a decrease in tailplane moment
- c) An increase in longitudinal stability
- d) A reduced fuel consumption as a result of reduced drag

**50. Fatigue and stress**

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- a) Increase the tolerance to hypoxia
- b) Lower the tolerance to hypoxia
- c) Will increase the tolerance to hypoxia when flying below 15 000 feet
- d) Do not affect hypoxia at all

**51. According to ICAO Annex 8, a certificate of airworthiness shall be renewed or shall remain valid subject to the:**

---

- a) Laws of the State in which is operated
- b) Laws of the State of registry
- c) Requirements laid down by ICAO
- d) Laws of the State of registry and operation

**52. Which of the following statements are correct:-1: Scuba diving may be practiced without restriction-2: Many medicines have effects which are incompatible with flight safety-3: An adequate amount of fluid should be drunk when flying-4: Alcohol has no effect on the inner ear.**

---

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

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

---

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

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**54. If an aeroplane was to circle around the Earth following the parallel 60°N at a ground speed of 480 KT. In order to circle around the Earth along the equator in the same amount of time, it should fly at a ground speed of:**

---

- a) 960 KT
- b) 480 KT
- c) 550 KT
- d) 240 KT

**55. Whenever ATIS is provided, the preparation and dissemination of the ATIS message shall be the responsibility of**

---

- a) The meteorological office serving the aerodrome (s)
- b) Both air traffic services and the meteorological office
- c) The air traffic services
- d) The unit as prescribed by the state

**56. Approach procedures - missed approach climb** Normally the missed approach procedures are based on a nominal missed approach climb gradient of:

---

- a) 2.5%
- b) 3.3%
- c) 5%
- d) 2%

**57. When a pilot is facing a problem during flight he should**

---

- a) Always make up his mind quickly to give himself as much spare time as possible
- b) Avoid making up his mind until the very last minute
- c) Take as much time as he needs and is available to make up his mind
- d) Make up his mind before consulting other crew members

**58. An asymmetric loading (p-factor) on the propeller exists ..**

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- a) If There Is An Unbalanced Propeller.
- b) If the aeroplane has a large angle of attack.
- c) Only if the 'constant speed propeller' mechanism is broken.
- d) Only For Counterrotating Propeller

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**59. You intend to overfly a mountain range. The recommended minimum flight altitude is, according to the aviation chart, 15000' AMSL. The air mass that you will fly through is on average 15°C warmer than the standard atmosphere. The altimeter is set to QNH (1023 hPa). At what altimeter reading will you effectively be at the recommended minimum flight altitude?**

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- a) 13830'
- b) 14100'
- c) 15900'
- d) 14370'

**60. In case of a SSR transponder failure occurring after departure of an IFR flight, the pilot shall:**

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- a) Inform the current ATC unit immediately
- b) Continue the flight in VMC
- c) Squawk 7600
- d) Land at the nearest suitable aerodrome for repair

**61. Given: True Track = 095° TAS = 160 kt True Heading = 087° GS = 130 kts Calculate W/V**

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- a) 237°/36 kt
- b) 057°/36 kt
- c) 124°/36 kt
- d) 307°/36 kt

**62. The purpose of stringers, used in fuselage construction, is to:**

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- a) Withstand Shear Stresses.
- b) Assist the skin withstand longitudinal compressive loads.
- c) Carry the loads due to pressurisation and convert them into tensile stress.
- d) Provide Sound And Thermal Isolation.

**63. The ventilation system in a fuel tank:**

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- a) Can Be Used To Drain The Tanks, For Daily Checks.
- b) It prevents a surge in the tank of an iced aeroplane.
- c) Prevents low pressure or overpressure in the tank.
- d) Prevents Vapour Lock In The Fuel Lines.

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

---

- 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.

**65. Given the following: True track: 192° Magnetic variation: 7°E Drift angle: 5° left What is the magnetic heading required to maintain the given track?**

---

- a) 204°
- b) 194°
- c) 180°
- d) 190°

**66. The point at which a tangent out of the origin touches the power required curve**

---

- a) Is the point where Drag coefficient is a minimum.
- b) Is the point where the Lift to Drag ratio is a minimum.
- c) Is the point where the Lift to Drag ratio is a maximum.
- d) Is the maximum drag speed.

**67. The floor of the main cargo hold is limited to 4000 N/m<sup>2</sup>. It is planned to load a cubic container each side of which measures 0.5 m. Its maximum gross mass must not exceed: (assume  $g=10\text{m/s}^2$ )**

---

- a) 1000 kg
- b) 100 kg
- c) 5000 kg
- d) 500 kg

**68. The advantages of Nickel-Cadmium compared with lead-acid batteries are:**  
1. lower risk of thermal runaway  
2. higher internal resistance, hence higher power  
3. reduced charging time  
4. constant output voltage  
**The combination which regroups all the correct statements is:**

---

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

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**69. On the display of a TCAS 2 (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. Creep of turbine blades is caused by:**

---

- a) Prolonged Idling At Low Rpm.
- b) High blade temperature whilst under centrifugal loading.
- c) Static imbalance of the blades.
- d) Bending Stresses Set Up By Gas Pressure.

**71. A public transport aeroplane is intended to be operated at FL 370. The cabin is fitted with 180 passenger seats. The minimum number of cabin oxygen masks (dispensing units) required for this aeroplane is:**

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- a) 198 (110% of the seating capacity).
- b) 210 (one additional mask per seat row).
- c) 240 (one additional mask per seat block).
- d) 270 (150% of the seating capacity).

**72. An aircraft shall display, if so equipped, an anti-collision light:**

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- a) While taxiing, but not when it is being towed
- b) Outside the daylight-period in flight, but not on the ground when it is being towed
- c) Outside the daylight-period at engine-start. During the daylight-period this is not applicable
- d) On the ground when the engines are running

**73. Which elements of instructions or information shall always be read back ?**

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- a) Runway-in-use, altimeter settings, SSR codes, level instructions, heading and speed instructions
- b) Time check, runway-in-use, altimeter settings, level instructions, SSR codes
- c) Surface wind, visibility, ground temperature, runway-in-use, altimeter settings, heading and speed instructions
- d) Runway-in-use, visibility, surface wind, heading instructions, altimeter settings



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**74. What is the frequency separation between consecutive frequencies in the VHF band:**

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- a) 25 KHz
- b) 75 KHz
- c) 8.33 KHz
- d) 50 KHz

**75. An aircraft, following a 215° true track at variation 3°W, must fly over a 10 600 ft obstacle with a minimum obstacle clearance of 1 500 ft. Knowing the QNH received from an airport close by, which is almost at sea-level, is 1035 and the temperature is ISA -15°C, the minimum flight level will be:**

---

- a) 140
- b) 150
- c) 130
- d) 120

**76. When the air is passing through a shock wave the static temperature will**

---

- a) Stay constant.
- b) Decrease.
- c) Decrease and beyond a certain Mach number start increasing again
- d) Increase.

**77. When the intruding aircraft is equipped with a serviceable mode C transponder, the TCAS 2 (Traffic Collision Avoidance System) generates a:**

---

- a) 'traffic advisory' and vertical 'resolution advisory'.
- b) 'traffic advisory', vertical and horizontal 'resolution advisory'.
- c) Vertical 'traffic advisory' and an horizontal 'resolution advisory'.
- d) 'traffic advisory' and horizontal 'resolution advisory'.

**78. If the control stick of an aircraft with properly rigged flight controls is moved rearward and to the left, the right aileron will move:**

---

- a) Up And The Elevator Will Move Down.
- b) Down And The Elevator Will Move Down.
- c) Up And The Elevator Will Move Up.
- d) Down and the elevator will move up.

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

---

- 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

**80. Which is the correct sequence of speeds during take-off?**

---

- a) VMCG, V1, VR, V2
- b) V1, VR, V2, VMCA
- c) V1, VR, VMCG, V2
- d) V1, VMCG, VR, V2

**81. What is the Q-code for 'magnetic heading to the station (no wind)?'**

---

- a) QNE
- b) QDR
- c) QTE
- d) QDM

**82. The units providing Air Traffic Services are:**

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- a) Area Control Centre - Advisory Centre - Flight Information Centre - Approach Control Office and Tower.
- b) Area Control Centre - Approach Control Office and Aerodrome Control Tower.
- c) Area Control Centre - Flight Information Centre - Approach Control Office - Aerodrome Control Tower and Air Traffic Services reporting office.
- d) Area Control Centre - Flight Information Region - Approach Control Office and Tower.

**83. A "close traffic advisory" is displayed on the display device of the TCAS II (Traffic Collision Avoidance System) by:**

---

- a) A blue or white empty lozenge.
- b) A yellow full circle.
- c) A red full square.
- d) A blue or white full lozenge.

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**84. 'Flutter' may be caused by:**

---

- a) Low airspeed aerodynamic wing stall.
- b) Roll control reversal.
- c) Distortion by bending and torsion of the structure causing increasing vibration in the resonance frequency.
- d) High airspeed aerodynamic wing stall.

**85. The zero fuel mass of an aeroplane is always:**

---

- a) The take-off mass minus the wing fuel mass.
- b) The take-off mass minus the fuselage fuel mass.
- c) The take-off mass minus the mass of take-off fuel.
- d) The maximum take-off mass minus the take-off fuel mass.

**86. Air traffic services unit clocks and other time recording devices shall be checked as necessary to ensure correct time to within plus or minus**

---

- a) 15 seconds of UTC at all times
- b) 30 seconds of UTC at all times
- c) 1 minute of UTC at all times
- d) 10 seconds of UTC at all times

**87. In case of supersonic flow retarded by a normal shock wave a high efficiency (low loss in total pressure) can be obtained if the Mach number in front of the shock is**

---

- a) Lower than 1.
- b) High (supersonic).
- c) Exactly 1.
- d) Small but still supersonic.

**88. . Allowed traffic load is the difference between:**

---

- a) Allowed take off mass and basic empty mass.
- b) Allowed take off mass and basic empty mass plus trip fuel.
- c) Operating mass and basic empty mass.
- d) Allowed take off mass and operating mass.

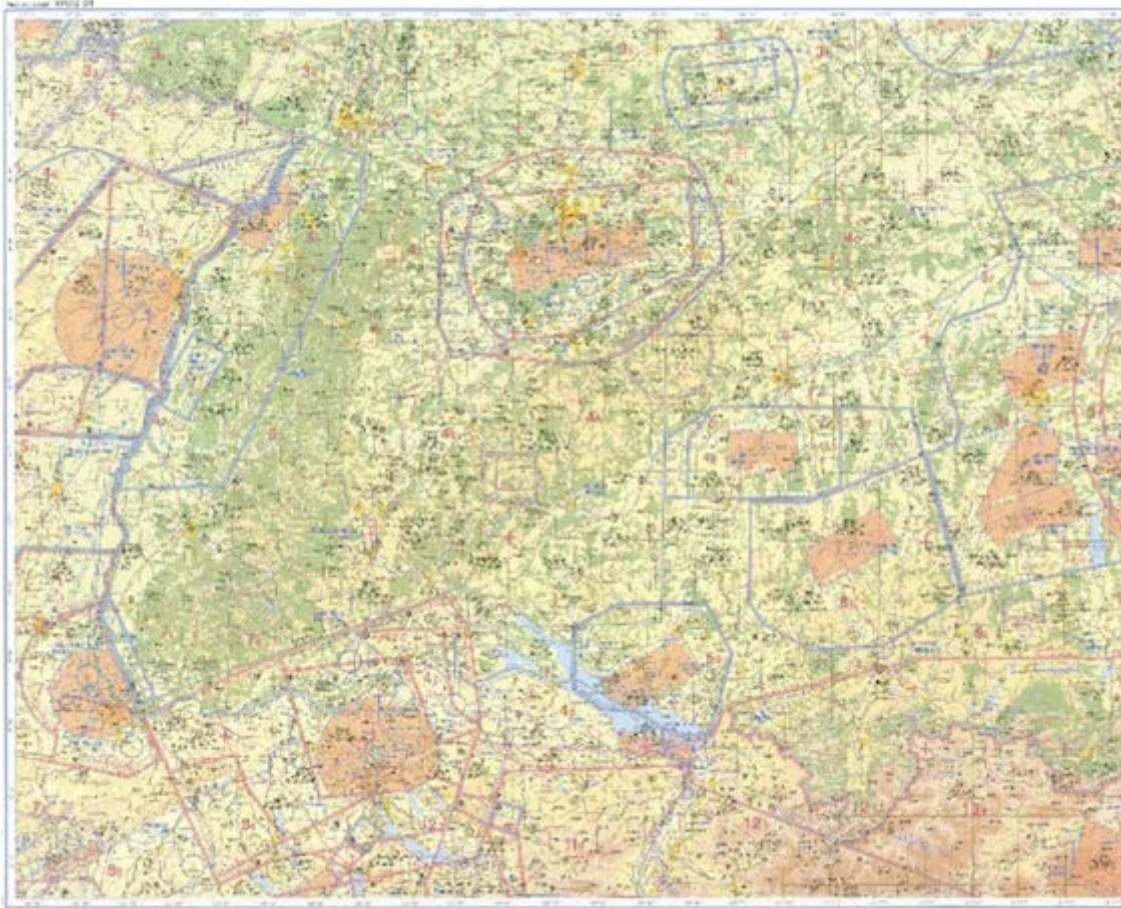
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**89. Refer to the General Student Pilot Route Manual ED-4: Flying VFR from PEITING (47°48.0'N, 010°55.5'E) to IMMENSTADT (47°33.5'N, 010°13.0'E). Determine the minimum altitude within a corridor 5 NM left and 5 NM right of the course line in order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



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

**90. Hard iron magnetism in aircraft may be caused by:**

- a) All answers are correct.
- b) A strike of lightning.
- c) Magnetic qualities of the cargo or baggage.
- d) Steel components, mainly in engines and undercarriage.

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**91. At reference or use of Performance Manual MEP 1 Figure 3.2 Given: OAT: 25°C Pressure Altitude: 3000 ft RWY: 24L Wind: 310°/20kts Take off Mass: 4400 lbs Heavy Duty Brakes installed. Other conditions as associated in the header of the graph. What is the Accelerate and Stop Distance under the conditions given?**

---

- a) 3750 ft
- b) 3350 ft
- c) 4000 ft
- d) 4300 ft

**92. Runway threshold lights shall be:**

---

- a) Fixed unidirectional lights showing white in the direction of approach to the runway.
- b) Fixed unidirectional lights showing green in the direction of approach to the runway.
- c) Fixed lights showing green or white colours.
- d) Fixed lights green colours.

**93. In the ATC flight plan Item 19, if the number of passengers to be carried is not known when the plan is ready for filing:**

---

- a) An estimate may be entered but that number may not subsequently be exceeded
- b) The plan should be filed with the relevant box blank
- c) The plan may not be filed until the information is available
- d) 'TBN' (to be notified) may be entered in the relevant box

**94. Loads must be adequately secured in order to:**

---

- a) Avoid unplanned centre of gravity (CG) movement and aircraft damage.
- b) Prevent excessive g-loading during the landing flare.
- c) Avoid any centre of gravity (CG) movement during flight.
- d) Allow steep turns.

**95. The code transmitted by a SSR transponder consists of:**

---

- a) Pulses
- b) Amplitude differences
- c) Frequency differences
- d) It is of no use to civil aviation

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**96. What will be the effect on an aeroplane's performance if aerodrome pressure altitude is decreased?**

---

- a) It will decrease the take-off distance required
- b) It will increase the accelerate stop distance
- c) It will increase the take-off ground run
- d) It will increase the take-off distance required

**97. The selection of code 7500 on an aircraft SSR transponder indicates:**

---

- a) Transponder malfunction
- b) An emergency
- c) Radio communication failure
- d) Phase difference between emitted wave and reflected wave

**98. Haemoglobin has an affinity for carbon monoxide of .....times over oxygen**

---

- a) 5 - 10
- b) 50 - 75
- c) 500 - 1,000
- d) 210 - 250

**99. When an aircraft station is unable to establish communication due to receiver failure, the following procedure should be undertaken:**

---

- a) Transmit at regular times or positions, the phrase 'Transmitting blind due to receiver failure'.
- b) Change to frequency 121.5 MHZ and squawk 7700.
- c) Transmit reports at scheduled times or positions, preceded by the phrase 'Transmitting blind due to receiver failure'.
- d) Land at the nearest uncontrolled airfield.

**100. A pilot is required to read back the following ATC message:**

---

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

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**101. A pilot can overcome hyperventilation by:**

- a) Increasing the rate and depth of breathing to eliminate harmful carbon dioxide
- b) Depending on instruments
- c) The use of drugs stabilizing blood pressure
- d) Controlling the rate and depth of breathing and/or breathing into a bag

---

**102. 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.

---

**103. The required time for final reserve fuel for turbojet aeroplane is:**

- a) 45 min.
- b) 60 min.
- c) 30 min.
- d) Variable with wind velocity.

---

**104. When an aircraft on a westerly heading on the northern hemisphere accelerates, the effect of the acceleration error causes the magnetic compass to:**

- a) Lag behind the turning rate of the aircraft
- b) Indicate a turn towards the south
- c) Indicate a turn towards the north
- d) To turn faster than the actual turning rate of the aircraft

---

**105. During landing of a low-winged jet aeroplane, the greatest elevator up deflection is normally required when the flaps are:**

- a) Fully down and the cg is fully aft.
- b) Up and the cg is fully forward.
- c) Up and the cg is fully aft.
- d) Fully down and the cg is fully forward.

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**106. Given: An aircraft is on final approach to runway 32R (322°)**

---

- a) The wind velocity reported by the tower is 350°/20 kt.
- b) TAS on approach is 95 kt. In order to maintain the centre line, the aircraft's heading (°M) should be:
- c) 316°
- d) 322°

**107. Which cloud type may indicate the presence of severe turbulence?**

---

- a) Stratocumulus
- b) Cirrocumulus
- c) Altopumulus lenticularis
- d) Nimbostratus

**108. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 2200 l. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:**

---

- a) 1738 kg
- b) 1798 kg
- c) 2098 kg
- d) 2785 kg

**109. Glaucoma is:**

---

- a) High intra-ocular pressure
- b) Disturbed night vision
- c) Disturbed adaptation
- d) Disturbed colour vision

**110. The Warsaw convention and later amendments deals with:**

---

- a) Operator's licence for international scheduled aviation
- b) The regulation of transportation of dangerous goods
- c) The security system at airports
- d) Limitation of the operator's liability for damage caused to passengers and goods transported



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**111. Select the acronym corresponding to the following definition: an special NOTAM series notifying, by means of a specific format, an important change for the aircraft operations, due to a volcano activity, a volcano eruption or a volcanic ash cloud.**

---

- a) VULTAM
- b) ASHTAM
- c) VOLCAM
- d) NAVTAM

**112. On an oblate spheroid representing the Earth's shape:**

---

- a) 1 minute of arc along the meridian at low latitudes measures a greater distance than 1 minute of arc along the meridian at high latitudes.
- b) 1 minute of arc along the meridian at 0°N/S measures the same distance as 1 minute of arc at 90°N/S.
- c) 1 minute of arc along the equator measures the same distance as 1 minute of arc along the meridian at a latitude of 45°N/S.
- d) 1 minute of arc along the equator measures a greater distance than 1 minute of arc along the meridian at a latitude of 45°N/S.

**113. Which one of the following describes the appearance of rhumb lines, except meridians, on a Polar Stereographic chart?**

---

- a) Ellipses around the Pole
- b) Curves concave to the Pole
- c) Straight lines
- d) Curves convex to the Pole

**114. The average pulse of a healthy adult at rest is about:**

---

- a) 30 to 50 beats/min
- b) 90 to 100 beats/min
- c) 60 to 80 beats/min
- d) 110 to 150 beats/min

**115. The vestibular system is composed of-1: two ventricles-2: a saccule-3: a utricle-4: three semicircular channels**

---

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

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**116. The aircraft DME receiver is able to accept replies to its own transmissions and reject replies to other aircraft interrogations because:**

---

- a) Pulse pairs are amplitude modulated with the aircraft registration
- b) Aircraft interrogation signals and transponder responses are 63 MHz removed from each other
- c) The time interval between pulse pairs is unique to that particular aircraft
- d)  $\pm 8.0\text{nm}$  for 95% of the flight time.

**117. An aircraft squawking 7700 indicates to the ground station that:**

---

- a) The aircraft's transceiver is unserviceable.
- b) The aircraft is in distress.
- c) The aircraft is being hijacked.
- d) There is a sick passenger on board.

**118. A load placed forward of the datum**

---

- a) Has a negative arm and therefore generates a negative mass and moment
- b) Has a positive arm and therefore generates a positive mass and moment
- c) Has a negative arm and therefore generates a negative moment
- d) Has a positive arm and therefore generates a positive moment

**119. The 'Standards' contained in the Annexes to the Chicago convention are to be considered:**

---

- a) Advice and guidance for the aviation legislation within the member states
- b) Binding for the member states that have not notified ICAO about a national difference
- c) Binding for all air line companies with international traffic
- d) Binding for all member states

**120. 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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## Response Scheme

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

01: A	02: A	03: A	04: C
05: C	06: A	07: D	08: C
09: B	10: D	11: C	12: D
13: C	14: C	15: A	16: A
17: B	18: A	19: A	20: A
21: B	22: B	23: C	24: D
25: A	26: A	27: C	28: D
29: C	30: A	31: B	32: D
33: C	34: B	35: C	36: D
37: C	38: D	39: A	40: A
41: B	42: C	43: A	44: C
45: C	46: C	47: B	48: D
49: D	50: B	51: B	52: C
53: B	54: A	55: C	56: A
57: C	58: B	59: B	60: A
61: B	62: B	63: C	64: B
65: D	66: C	67: B	68: A
69: C	70: B	71: B	72: D
73: A	74: C	75: A	76: D
77: A	78: D	79: B	80: A
81: D	82: C	83: B	84: C

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85: **C**

86: **B**

87: **D**

88: **D**

89: **C**

90: **A**

91: **A**

92: **B**

93: **D**

94: **A**

95: **A**

96: **A**

97: **D**

98: **D**

99: **C**

100: **A**

101: **D**

102: **D**

103: **C**

104: **C**

105: **D**

106: **D**

107: **C**

108: **A**

109: **A**

110: **D**

111: **B**

112: **D**

113: **B**

114: **C**

115: **D**

116: **C**

117: **B**

118: **C**

119: **B**

120: **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: _____	71: _____	72: _____
73: _____	74: _____	75: _____	76: _____
77: _____	78: _____	79: _____	80: _____
81: _____	82: _____	83: _____	84: _____

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85: _____	86: _____	87: _____	88: _____
89: _____	90: _____	91: _____	92: _____
93: _____	94: _____	95: _____	96: _____
97: _____	98: _____	99: _____	100: _____
101: _____	102: _____	103: _____	104: _____
105: _____	106: _____	107: _____	108: _____
109: _____	110: _____	111: _____	112: _____
113: _____	114: _____	115: _____	116: _____
117: _____	118: _____	119: _____	120: _____