

Exam simulation

ATPL - Airline Transport Pilot license - General Navigation



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STUDENT NAME:

DATE AND TIME:

01. The true course is 042°. The variation in the area is 6° W and the wind is calm. The deviation card is reproduced in the annex. In order to follow this course, the pilot must fly a compass heading of:

CH	000	045	090	135	...
Dev	-2	-4	-3	-1	

- a) 040°
- b) 058°
- c) 044°
- d) 052°

02. The main limitation of the long-term memory is:

- a) The quantity of data which may be stored
- b) If enough information is entered at the same time, saturation may take place
- c) Unless information is accessed from time to time, retrieval of information can be difficult
- d) The data storage time

03. 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

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

04. On an aircraft landing gear, an under-inflated tyre:

- a) Will have an increased critical hydroplaning speed
- b) It's tread will deteriorate faster
- c) Will be more subject to viscosity aquaplaning on dry runway
- d) Will wear at the shoulders

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05. A secondary radar can provide up to 4096 different codes. These 4096 codes can be used in:

- a) Mode S
- b) All modes
- c) Mode C only
- d) Mode A only

06. You are flying at FL 300 where the outside air temperature is -57.5°C and the pressure at MSL is 1013.25 hPa. If you assume that the difference between the actual temperature and the temperature in the ISA is valid for the whole troposphere, then the true altitude is:

- a) 30.000 ft
- b) 27.000 ft
- c) 31.500 ft
- d) 28.500 ft

07. If an aeroplane is at a higher mass than anticipated, for a given airspeed the angle of attack will

- a) Be decreased, drag will decrease and endurance will increase.
- b) Remain constant, drag will decrease and endurance will decrease.
- c) Be greater, drag will increase and endurance will decrease.
- d) Remain constant, drag will increase and endurance will increase.

08. 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.

09. A Lambert conformal conic chart has a constant of the cone of 0.75. The initial course of a straight line track drawn on this chart from A ($40^{\circ}\text{N } 050^{\circ}\text{W}$) to B is $043^{\circ}(\text{T})$ at A; Course at B is $055^{\circ}(\text{T})$. What is the longitude of B?

- a) 36°W
- b) 34°W
- c) 41°W
- d) 38°W

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10. In which situation will speed indications on an airborne Distance Measuring Equipment (DME) most closely represent the groundspeed of an aircraft flying at FL400?

- a) When overhead the station, with no change of heading at transit
- b) When passing abeam the station and within 5 NM of it
- c) When tracking directly away from the station at a range of 10 NM
- d) When tracking directly towards the station at a range of 100 NM or more

11. The fuel system boost pumps are used to:

- a) Feed the fuel control units, which inject the pressurized fuel into the engine.
- b) Avoid the bubbles accumulation.
- c) Avoid the bubbles accumulation and feed the lines with fuel for directing it to the engine at a positive pressure.
- d) Feed the lines with fuel for directing it to the engine at a positive pressure.

12. The regime of flight from the critical Mach number up to approximately $M = 1.3$ is called the:

- a) Supersonic range
- b) Transonic range
- c) Subsonic range
- d) Hypersonic range

13. When flying in accordance with IFR, which of the following best describes the term 'Visual approach' ?

- a) A visual manoeuvre executed by an IFR flight when the weather conditions at the aerodrome of destination are equal to or better than required VMC minima
- b) An approach executed by an IFR flight unable to maintain VMC
- c) An extension of an instrument approach procedure to bring an aircraft into position for landing on a runway which is not suitably located for straight-in-approach
- d) An approach by an IFR flight when either part or all of an instrument approach procedure is not completed and the approach is executed in visual reference to terrain

14. As regards the detection of bird strike hazard, pilots may obtain information on bird strike hazards by means of: 1 - ATIS; 2 - NOTAMs; 3 - BIRDTAMs; 4 - Weather radar; 5 - The report by another crew. The combination regrouping all the correct statements is:

- a) 1,2,3,4,5
- b) 1,3,4
- c) 1,2,5
- d) 2,5

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15. Of what does lenticular cloud provide evidence?

- a) Jet streams
- b) Mountain waves
- c) Areas of high level clear air turbulence
- d) Stratospheric inversions

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

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

17. During a VFR flight at a navigational checkpoint the remaining usable fuel in tanks is 60 US gallons. The reserve fuel is 12 US gallons. According to the flight plan the remaining flight time is 1h35min. Calculate the highest acceptable rate of consumption possible for the rest of the trip.

- a) 33.0 US gallons/hour
- b) 30.3 US gallons/hour
- c) 21.3 US gallons/hour
- d) 37.9 US gallons/hour

18. Given: TAS = 132 kt, HDG (T) = 053°, W/V = 205/15kt. Calculate the Track (°T) and GS?

- a) 050 - 145 kt
- b) 051 - 144 kt
- c) 052 - 143 kt
- d) 057 - 144 kt

19. The maximum certificated take-off mass is:

- a) A take-off limiting mass which is governed by the gradient of climb after reaching V_2 .
- b) A take-off limiting mass which is affected by the aerodrome altitude and temperature.
- c) Limited by the runway take off distance available. It is tabulated in the Flight Manual.
- d) A structural limit which may not be exceeded for any take-off.

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20. Which of the following statements is correct? 1. Psychosomatic means that mental and/or emotional stressors can be manifested in physical reactions. 2. Psychosomatic means that a physical problem is always followed by psychological stress.

- a) 1 and 2 are both correct
- b) 1 is false, 2 is correct
- c) 1 is correct, 2 is false
- d) 1 and 2 are both false

21. Given: M 0.80, OAT -50°C, FL 330, GS 490 kt, VAR 20°W, Magnetic heading 140°, Drift is 11° Right. Calculate the true W/V?

- a) 025°/47 kt
- b) 200°/95 kt
- c) 020°/95 kt
- d) 025°/45 kt

22. The minimum requirements for Supplemental Oxygen to be supplied in pressurised aeroplanes during and following an emergency descent are that for pilots it shall be available for the entire flight time that the cabin pressure altitude exceeds a minimum of X feet. That minimum of X feet is:

- a) 14000 ft
- b) 15000 ft
- c) 13000 ft
- d) 25000 ft

23. Which statement related to a take-off from a wet runway is correct?

- a) A reduction of screen height is allowed in order to reduce weight penalties
- b) Screen height reduction cannot be applied because of reduction in obstacle clearance
- c) In case of a reverser inoperative the wet runway performance information can still be used
- d) The use of a reduced VR is sufficient to maintain the same safety margins as for a dry runway

24. If the pressure in the cabin tends to become lower than the outside ambient air pressure the:

- a) Negative pressure relief valve will open.
- b) Air cycle machine will stop.
- c) Outflow valve open completely.
- d) Negative pressure relief valve will close

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25. An aircraft operating within NAT HLA (North Atlantic High Level Airspace) is unable to continue flight in accordance with its air traffic control clearance, but is able to maintain its assigned level, and due to a total loss of communications capability, cannot obtain a revised clearance from ATC. The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and climb 1 000 ft or descend 500 ft, if:

- a) Above FL 410
- b) At FL 410
- c) At FL 430
- d) Below FL 410

26. What characterises the notion of role ?

- a) The function and behaviour associated with the particular role
- b) The hierarchical position of the function and the associated behaviour
- c) The characteristic behaviour associated with the description of the various roles of a particular status
- d) Only the functions associated with role

27. 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

28. Early symptoms of hypoxia could be: 1. euphoria 2. decreased rate and depth of breathing 3. lack of concentration 4. visual disturbances

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

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29. Concerning to RNP (Required Navigation Performance) types, the indication RNP 4, represents a navigation accuracy of

- a) Plus or minus 4 NM on a 95 per cent containment basis
- b) Plus or minus 4 miles on a 90 per cent containment basis
- c) Plus or minus 4 NM on a 98 per cent containment basis
- d) Plus or minus 4 NM on a 90 per cent containment basis

30. If an aircraft flies along a VOR radial it will follow a:

- a) Rhumbline track
- b) Great circle track
- c) Constant magnetic track
- d) Line of constant bearing

31. A gravity type erector is used in a vertical gyro device to correct errors on:

- a) A directional gyro unit
- b) An artificial horizon
- c) A gyromagnetic indicator
- d) A turn indicator

32. What should a pilot do to optimise his/her night vision (scotopic vision)?

- a) Wait at least 60 minutes to night-adapt before he takes off
- b) Avoid food containing high amounts of vitamin A
- c) Select meals with high contents of vitamin B and C
- d) Not smoke before start and during flight and avoid flash-blindness

33. When the centre of gravity is at the forward limit, an aeroplane will be:

- a) Extremely stable and require small elevator control to change pitch.
- b) Extremely stable and will require excessive elevator control to change pitch.
- c) Extremely unstable and require small elevator control to change pitch.
- d) Extremely unstable and require excessive elevator control to change pitch.

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34. Consider the steady flow through a stream tube where the velocity of the stream is V . An increase in temperature of the flow at a constant value of V will:

- a) Increase the mass flow
- b) Not affect the mass flow
- c) Decrease the mass flow
- d) Increase the mass flow when the tube is divergent in the direction of the flow

35. What does the term 'clearance limit' mean?

- a) The point to which an aircraft is granted an air traffic control clearance
- b) The time after which an air traffic control clearance will be automatically cancelled if the flight has not been commenced
- c) The time at which an aircraft is given an air traffic control clearance
- d) The time of expiry of an air traffic control clearance

36. Given: P_t : total pressure, P_s : static pressure, P_d : dynamic pressure. The altimeter is fed by:

- a) P_t
- b) P_s
- c) $P_d - P_s$
- d) P_d

37. The fuel burn of an aircraft turbine engine is 220 l/h with a fuel density of 0,80. If the density is 0,75, the fuel burn will be:

- a) 235 l/h
- b) 176 l/h
- c) 220 l/h
- d) 206 l/h

38. 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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39. For the purpose of completing the Mass and Balance documentation, the Traffic Load is considered to be equal to the Take-off Mass

- a) Plus the Operating Mass.
- b) Plus the Trip Fuel Mass.
- c) Less the Operating Mass.
- d) Less the Trip Fuel Mass.

40. Under EASA Air OPS / Part-CAT, which of the following are included in the aerodrome operating minima for a non-precision approach? 1 - the required RVR; 2 - the ceiling; 3 - the minimum descent height (MDH); 4 - the decision height (DH)

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

41. An aircraft operating within NAT HLA (North Atlantic High Level Airspace) is unable to continue flight in accordance with its air traffic control clearance, but is able to maintain its assigned level, and due to a total loss of communications capability, cannot obtain a revised clearance from ATC. The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and climb or descend 500 ft, if:

- a) Above FL 410
- b) At FL 410
- c) At FL 430
- d) Below FL 410

42. For a given aeroplane, the wake turbulence increases when the aeroplane has a:

- a) Low mass and low airspeed
- b) High mass and high airspeed
- c) Low mass and high airspeed
- d) High mass and low airspeed

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43. Air traffic services may require an aircraft to report position when flying east-west, north of 70°N between 10°W and 50°W, every:

- a) 15° of longitude.
- b) 10° of longitude.
- c) 5° of longitude.
- d) 20° of longitude.

44. An aircraft transmitting a distress message is required to give its position as:

- a) The most accurate possible using GPS if fitted.
- b) Present or last known position, altitude or level and heading.
- c) Position relative to a VRP.
- d) Latitude and longitude.

45. Signal reception is required from a minimum number of satellites that have adequate elevation and suitable geometry in order for a Satellite-Assisted Navigation System (GPS) to carry out independent three dimensional operation without the Receiver Autonomous Integrity Monitoring (RAIM) function. The number of satellites is:

- a) 6
- b) 5
- c) 3
- d) 4

46. What does the term 'waypoint' mean?

- a) A defined position on an aerodrome used for the calibration of the inertial navigation system
- b) A signal indicating the direction of the runway-in-use
- c) A specified geographical position used to define an area navigation route or the flight path of an aircraft employing area navigation
- d) A general term meaning the taxiway- and the runway-system of an international airport

47. The limits of the green scale of an airspeed indicator are:

- a) VS1 for the lower limit and VNE for the upper limit
- b) VS0 for the lower limit and VNO for the upper limit
- c) VS1 for the lower limit and VLO for the upper limit
- d) VS1 for the lower limit and VNO for the upper limit

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48. Position A is located on the equator at longitude 130°00E. Position B is located 100 NM from A on a bearing of 225°(T). The coordinates of position B are:

- a) 01°11'S 131°11'E
- b) 01°11'N 131°11'E
- c) 01°11'N 128°49'E
- d) 01°11'S 128°49'E

49. Which of these statements about the wing structure is correct?

- a) A torsion box is formed by wing spars, ribs and wing skin reinforced by stringers.
- b) The slats are a part of the torsion box.
- c) A semi-monocoque structure consists of the skin and frames.
- d) A wing main spar consists of a web with stringers.

50. 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

51. Interception. An aircraft equipped with SSR transponder which is intercepted by another aircraft shall immediately, unless otherwise instructed by the appropriate air traffic service unit, select Mode A

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

52. The direction of the Earth's rotation on its axis is such that:

- a) An observer on the surface of the Earth always will face West when observing sunrise.
- b) Any point on the surface of the Earth will move eastward.
- c) Observe from the point above the North pole, the rotation is counterclockwise.
- d) Any point on the surface of the Earth will move westward.

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53. Can you suffer from aerodontalgia in the descent?

- a) Only above 10.000 ft
- b) No
- c) Only in pressurised aircraft
- d) Yes

54. Which signal indicates "Operations complete"?

- a) N
- b) LLL
- c) NN
- d) V

55. For a planned flight the calculated fuel is as follows: Flight time: 3h06min The reserve fuel, at any time, should not be less than 30% of the remaining trip fuel. Taxi fuel: 8 kg Block fuel: 118 kg How much fuel should remain after 2 hours flight time?

- a) 39 kg trip fuel and 12 kg reserve fuel.
- b) 30 kg trip fuel and 9 kg reserve fuel.
- c) 39 kg trip fuel and no reserve fuel.
- d) 27 kg trip fuel and 12 kg reserve fuel.

56. How shall a pilot ask for a QFE?

- a) Request Queen Fox Easy
- b) Request Quebec Foxtrot Echo
- c) Request Quebec Fox Echo
- d) Request Quebec Fox Easy

57. The output of a generator is controlled by:

- a) Varying the length of wire in the armature windings.
- b) Varying the speed of the engine.
- c) The reverse current relay circuit breaker.
- d) Varying the field strength.

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58. What is a VDF referenced to?

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

59. Which of the following changes of state is known as sublimation (in meteorology)?

- a) Solid direct to vapour
- b) Liquid direct to vapour
- c) Liquid direct to solid
- d) Solid direct to liquid

60. Full deflection on a glide slope indicator indicates that the aircraft is:

- a) 2.5° above or below the correct glide path.
- b) 0.5° above or below the correct glide path.
- c) 0.7° above or below the correct glide path.
- d) 1.25° above or below the correct glide path.

61. The (subsonic) static pressure:

- a) Decreases in a flow in a tube when the diameter decreases
- b) Increases in a flow in a tube when the diameter decreases
- c) Is the pressure in a point at which the velocity has become zero
- d) Is the total pressure plus the dynamic pressure

62. For aircraft call sign "Easy G-ABCD" the correct abbreviation is:

- a) Golf Charlie Delta
- b) Easy Charlie Delta
- c) Easy Delta
- d) Easy Golf Charlie Delta

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63. Air traffic services may require an aircraft to report position when flying east-west, south of 70°N between 5°W and 65°W, every:

- a) 10° of longitude.
- b) 15° of longitude.
- c) 20° of longitude.
- d) 5° of longitude.

64. What is the correct call sign of Fastair 345 in the initial call to the aerodrome control tower and the approach control unit, if the aircraft has a maximum take-off weight of more than 136 tonnes:

- a) Fastair 345 heavy
- b) Fastair 345 widebody
- c) Fastair 345
- d) Heavy Fastair 345

65. A mass of 500 kg is loaded at a station which is located 10 metres behind the present Centre of Gravity and 16 metres behind the datum. (Assume: $g = 10 \text{ m/s}^2$). The moment for that mass used in the loading manifest is:

- a) 50000 Nm
- b) 80000 Nm
- c) 130000 Nm
- d) 30000 Nm

66. Which of these markers has the highest audible frequency?

- a) Inner
- b) Airways
- c) Middle
- d) Outer

67. Approach Procedures -Arrival and Approach Segments. The minimum obstacle clearance in the primary area of the initial approach segment for an instrument approach procedure is at least:

- a) 150m (492 ft).
- b) 300m (984 ft).
- c) 600m (1968 ft).
- d) 450m (1476 ft).

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68. A message preceded by the phrase 'Transmitting blind due to receiver failure' shall be transmitted:

- a) On the regional guard frequency
- b) On the international emergency frequency
- c) On the frequency presently in use
- d) On all available aeronautical stations

69. What does the phrase 'break break' mean?

- a) It indicates the separation between portions of a message transmitted to an aircraft station
- b) It indicates the separation between messages transmitted to different aircraft in a very busy environment
- c) My transmission is ended and I expect a response from you
- d) The exchange of transmissions is ended and no response is expected

70. When completing Item 9 of the ATC flight plan, if there is no appropriate aircraft designator, the following should be entered:

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- a) The most descriptive abbreviation
- b) 'XXXX' followed by an entry in Item 18
- c) 'NONE'
- d) 'ZZZZ' followed by an entry in Item 18

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Response Scheme

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

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

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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: _____		