Exam simulation

ATPL - Airline Transport Pilot license - Operational Procedures

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STUDENT NAME:	DATE AND TIME:

01. The state of design shall ensure that, there exists a continuing structural integrity program to ensure the airworthiness of the aeroplane, which includes specific information concerning corrosion prevention and control, in respect of aeroplanes:

a) Over 5700 kg maximum certificated take-off and landing mass

b) Up to 5700 kg maximum certificated take-off mass

c) Over 5700 kg maximum certificated take-off mass

d) Up to 5700 kg maximum certificated take-off and landing mass

02. For a pressurised aircraft, the first-aid oxygen is designed to:

a) Protect all the occupants against the effects of accidental depressurisation.

b) Protect the flight crew and cabin attendants against fumes and noxious gases.

c) Provide oxygen to 10% of passengers at a cabin altitude exceeding 13000 ft after 30 minutes.

d) Provide undiluted oxygen to passengers for physiological reasons following a cabin depressurisation.

03. Aircraft told to contact Stephenville Radar on 132.010. Response if unable to comply:

a) Negative channel 132.010

b) Negative frequency 132.008

c) Negative 8 point 3 3

d) Negative on 132.010

04. On large aeroplanes equipped with power brakes, the main source of power is derived from:

a) The Master Cylinders.

b) Pressure to the rudder pedals.

c) The aeroplane's hydraulic system.

d) The Brake Actuators.

05. The point, where the single resultant aerodynamic force acts on an aerofoil, is called:

a) Neutral point

b) Centre of gravity

c) Aerodynamic centre

d) Centre of pressure

06. In the Flight Management Computer (FMC) of the Flight Management System (FMS), data relating to V1, VR and V2 speeds is stored in the:

a) Performance database

b) Auto flight computer

c) Navigation database

d) Air data computer

07. If a pilot has connected the automatic pilot to the gyro compass (which is assumed to be operating correctly) and the latter is fitted with a rate correction device which is properly corrected by astronomical precession, the course followed by the aircraft (in still air conditions) is a:

a) Rhumb line.

b) Great circle.

c) Spherical flight segment.

d) Curve of some type or other.

08. If the take-off mass of an aeroplane is tyre speed limited, downhill slope would:

a) Have no effect on the maximum mass for take-off

b) Increase the required take-off distance

c) Increase the maximum mass for take-off

d) Decrease the maximum mass for take-off

09. In the northern hemisphere, during the take-off run in an easterly direction, a direct reading magnetic compass indicates:

a) No apparent turn.

b) An apparent turn to approximately the heading 100°.

c) An apparent turn to the south.

d) An apparent turn to the north.

10. You would use a CO2 fire-extinguisher for:1. a paper fire2. a plastic fire3. a hydrocarbon fire4. an electrical fireThe combination regrouping all the correct statements is:

a) 3,4

b) 1,2,3

c) 1,2,3,4

d) 2,3

11. Which of the following alternatives is correct when you cross the international date line?

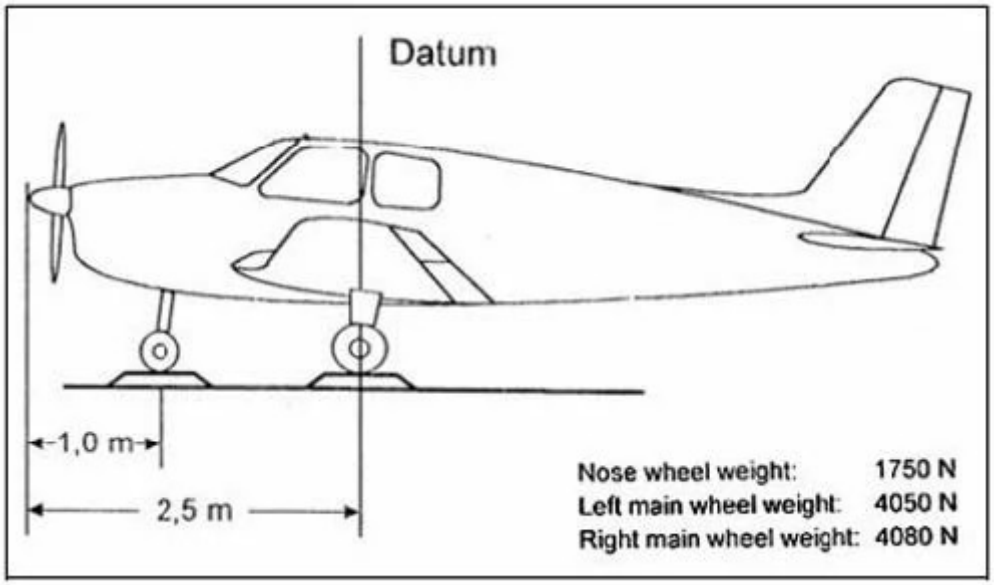
a) The date will increase if you are crossing on a westerly heading.

b) If you are crossing from westerly longitude to easterly longitude the date will remain the same.

c) The date will always be the same.

d) The date will increase if you are crossing on a easterly heading.

12. Where is the centre of gravity of the aeroplane in the diagram?



a) 26.57 cm forward of datum.

b) 32.29 cm aft of datum.

c) 26.57 cm aft of datum.

d) 32.29 cm forward of datum.

13. The conditions under which you obtain the highest engine power are:

a) Warm And Humid Air At Low Pressure.

b) Cold and humid air at high pressure.

c) Cold and dry air at high pressure.

d) Warm And Dry Air At High Pressure.

14. In order to maintain straight and level flight at a constant airspeed, whilst the flaps are being retracted, the angle of attack must be:

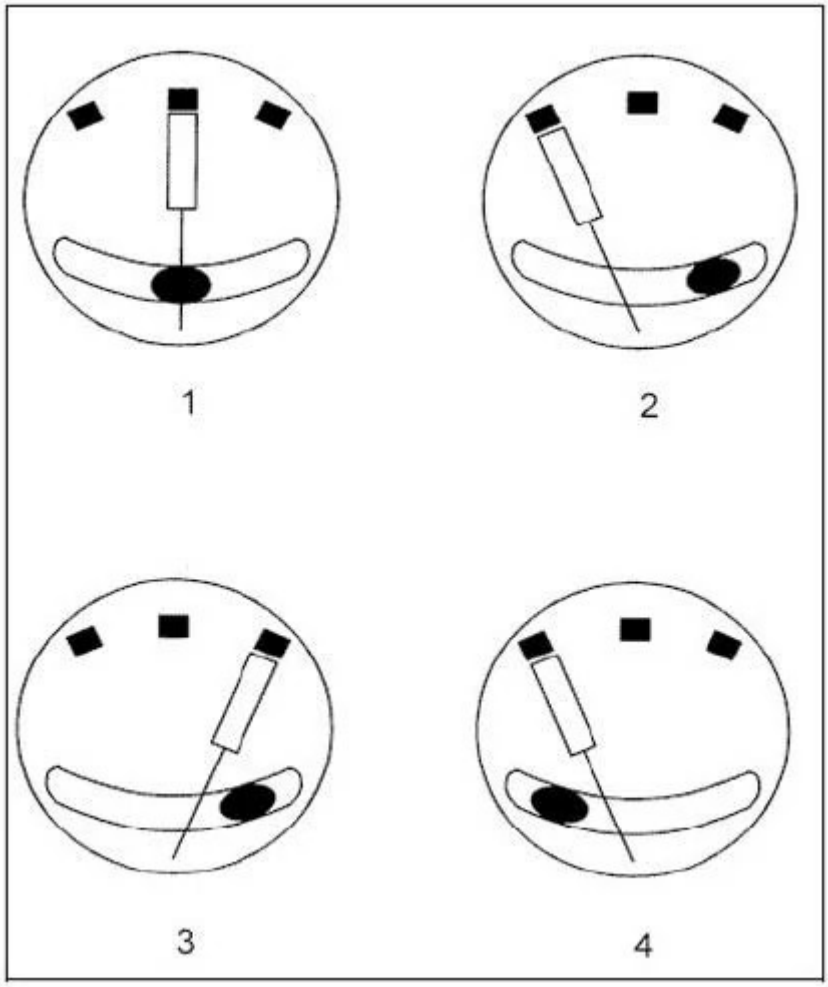
a) Held constant

b) Decreased

c) Increased or decreased depending upon the type of flap

d) Increased

15. The diagram representing a left turn with insufficient rudder is:



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

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

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

17. With respect to a piston engine aircraft, ice in the carburettor:

a) Will Only Form At Oat's Below +10°c.

b) Will only form at outside air temperatures (OAT's) below the freezing point of water.

c) Will only form at outside air temperatures (OAT's) below the freezing point of water.may form at OAT's higher than +10°

d) Will Only Form At Oat's Below The Freezing Point Of Fuel.

18. The maximum operating altitude for a certain aeroplane with a pressurised cabin

a) Is dependent on aerodynamic ceiling.

b) Is the highest pressure altitude certified for normal operation.

c) Is only certified for four-engine aeroplanes.

d) Is dependent on the OAT.

19. On which of the following radar displays is it possible to get an indication of the shape, and to some extent the type, of the aircraft generating the return?

a) Aerodrome Surveillance (approach) Radar

b) Secondary Surveillance Radar (SSR)

c) Airborne Weather Radar (AWR)

d) The installation does not require to have a separate method (marker beacons or DME) to determine range

20. Increasing the number of propeller blades will:

a) Increase the propeller efficiency

b) Increase the noise level at maximum power

c) Increase the maximum absorption of power

d) Decrease the torque in the propeller shaft at maximum power

21. 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) ± 8.0nm for 95% of the flight time.

22. When are ATIS broadcasts updated?

a) Every 30 minutes if weather conditions are below those for VFR

b) Otherwise hourly

c) Only when weather conditions change enough to require a change in the active runway or instrument approach in use

d) Upon receipt of any official weather, regardless of content change or reported values

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

a) The aeroplane descends if the airspeed is maintained.

b) The aeroplane accelerates if the altitude is maintained.

c) The aeroplane decelerates if the altitude is maintained.

d) The aeroplane decelerates if it is in the region of reversed command.

24. The OBS is set to 235°. The indications of the VOR are half full scale deflection left and 'to'. The aircraft is on the radial:

a) 230°

b) 050°

c) 240°

d) 100 NM

25. The middle marker transmits on:

a) 75MHz

b) 1300Hz

c) 75Hz

d) 1300MHz

26. The region of the globe where the greatest number of tropical revolving storms occur is

a) The north-west Pacific, affecting Japan, Taiwan, Korea and the Chinese coastline.

b) The northern Indian ocean, affecting India, Sri Lanka and Bangladesh.

c) The south-western Indian ocean, affecting Madagascar, Mauritius and the island of Réunion.

d) The Caribbean sea, affecting the West Indies, Mexico and the south-east coastline of the US

27. The colour identification of the contents of droppable containers and packages containing survival equipment should take the form of coloured streamers according to the following code:

a) Red for food and water.

b) Yellow for blankets and protective clothing.

c) Black for food and water.

d) Blue for medical supplies and first aid equipment.

28. Planning an IFR-flight from Paris (Charles de Gaulle) to London (Heathrow) for the twin jet aeroplane.Given: Estimated Take-off Mass (TOM) 52000 kg, Airport elevation 387 ft, FL 280, W/V 280°/40 kt, ISA Deviation -10°C, Average True Course 340°Find: Time to the top of climb (TOC)

a) 3 min

b) 11 min

c) 15 min

d) 12 min[see Annex]

29. What is measured in order to establish aircraft position in relation to the localiser beam on an ILS?

a) The bearing to the localiser antenna found by means of a loop antenna.

b) The difference in phase between the 90 Hz modulation and the 150 Hz modulation.

c) The difference in time between the 90 Hz modulation and the 150 Hz modulation.

d) The difference in depth between the 90 Hz modulation and the 150 Hz modulation.

30. Max. Exhaust Gas Temperature is theoretically associated with:

a) Full Rich Setting.

b) Cruising mixture setting.

c) Mixture ratio very close to idle cut-out.

d) Mass ratio of 1/15.

31. If OAT increases when at a constant TAS:

a) Mach number decreases.

b) The difference between surrounding conditions and ISA must be known to deduce the Mach number variation.

c) Mach number remains constant.

d) Mach number increases.

32. What is the radiotelephony call sign suffix for the aeronautical station indicating aerodrome control service:

a) AERODROME

b) CONTROL

c) APRON

d) TOWER

33. The type of icing that occurs in dense clouds with large supercooled drops that have a temperature of -5°C is most likely to be

a) Clear ice

b) Cloudy ice

c) Rime ice

d) Hoar frost

34. Given that the characteristics of a three engine turbojet aeroplane are as follows:Thrust = 50000 Newton / Engine g = 10 m/s2Drag = 72569 NMinimum steady gradient of climb (2nd segment) = 2.7% SIN (Angle of climb) = (Thrust - Drag) / WeightThe maximum take-off mass under 2nd segment conditions with 1 engine out is:

a) 101596 kg

b) 209064 kg

c) 74064 kg

d) 286781 kg

35. The purpose of static wick dischargers is to:

a) Dissipate Static Charge From The Aircraft Skin After Landing.

b) Provide a path to ground for static charges when refuelling.

c) Dissipate static charge of the aircraft in flight thus avoiding radio interference as a result of static electricity.

d) Be Able To Fly Higher Because Of Less Electrical Friction.

36. In the MAPPING MODE the airborne weather radar utilises a:

a) Pencil beam to a maximum range of 60 NM

b) Fan shaped beam effective up to a range of 150 NM

c) Pencil beam effective from zero to 150 NM

d) Range from cloud, wavelength / frequency used

37. Given: GS = 135 kt.Distance from A to B = 433 NM. What is the time from A to B?

a) 3 HR 12 MIN

b) 3 HR 20 MIN

c) 3 HR 19 MIN

d) 3 HR 25 MIN

38. Under CS-25 colour code rules for Electronic Flight Instrument Systems (EFIS), increasing intensity of precipitation are coloured in the order:

a) Green, amber/yellow, red, magenta

b) Amber/yellow, magenta, black

c) Black, amber/yellow, magenta, red

d) Multi-sensor systems are not certificated for flights under IFR conditions

39. Which phraseology is to be used to ask the control tower for permission to taxi on a runway in the direction opposite to that in use ?

a) 'Request backtrack on runway'.

b) 'Backtrack clearance'.

c) 'To enter back runway'.

d) 'Clearance to backtrack'.

40. What does the word 'disregard' mean?

a) Consider that transmission as not sent

b) Wait and I will call you

c) Annul the previously transmitted clearance

d) An error has been made in this transmission

41. An applicant for a commercial pilot licence aeroplane shall have completed in aeroplanes not less than:

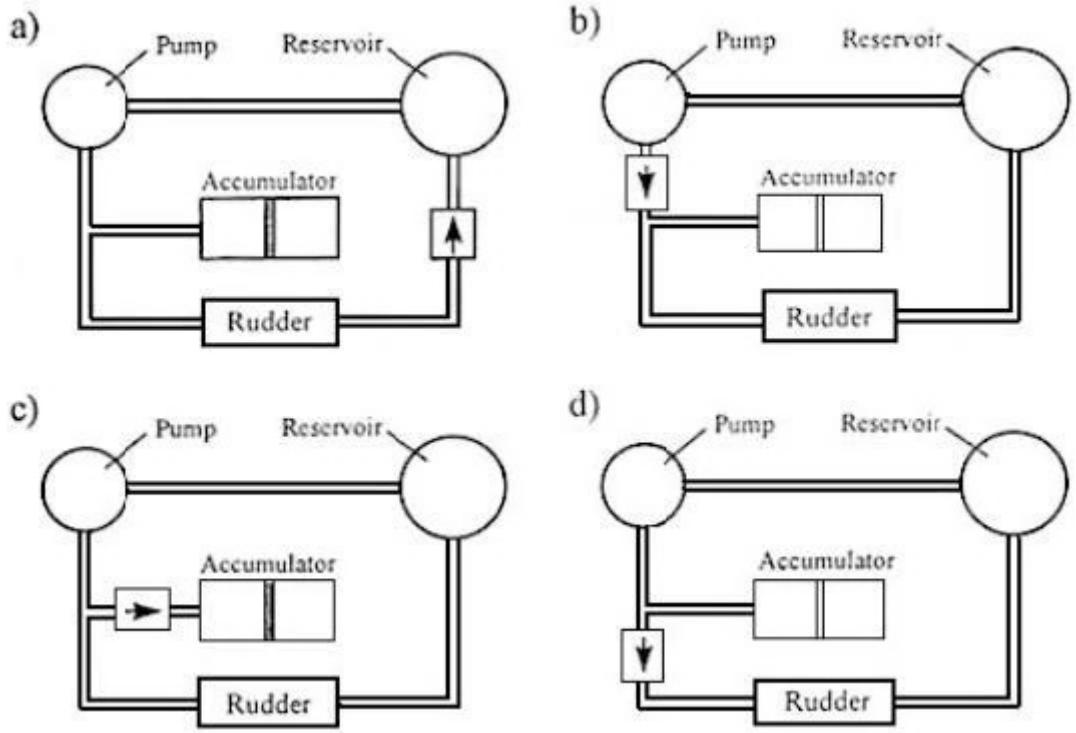
a) 200 hours of flight time or 150 hours if completed during a course of approved training as a pilot of aeroplanes

b) 150 hours of flight time and 100 hours as pilot in command

c) 200 hours of flight time and 70 hours as pilot in command

d) 200 hours of flight time and 80 hours as pilot in command

42. The hydraulic systems which works correctly is shown in the figure:



a) A
b) B
c) D
d) C

43. With too much cohesion, Groupthink can be:

a) Popular and positive
b) Positive and far-reaching
c) Positive
d) Negative

44. In the ATC flight plan Item 10 (equipment), the letter to indicate the carriage of a serviceable transponder - mode A (4 digits-4096 codes) and mode C, is:

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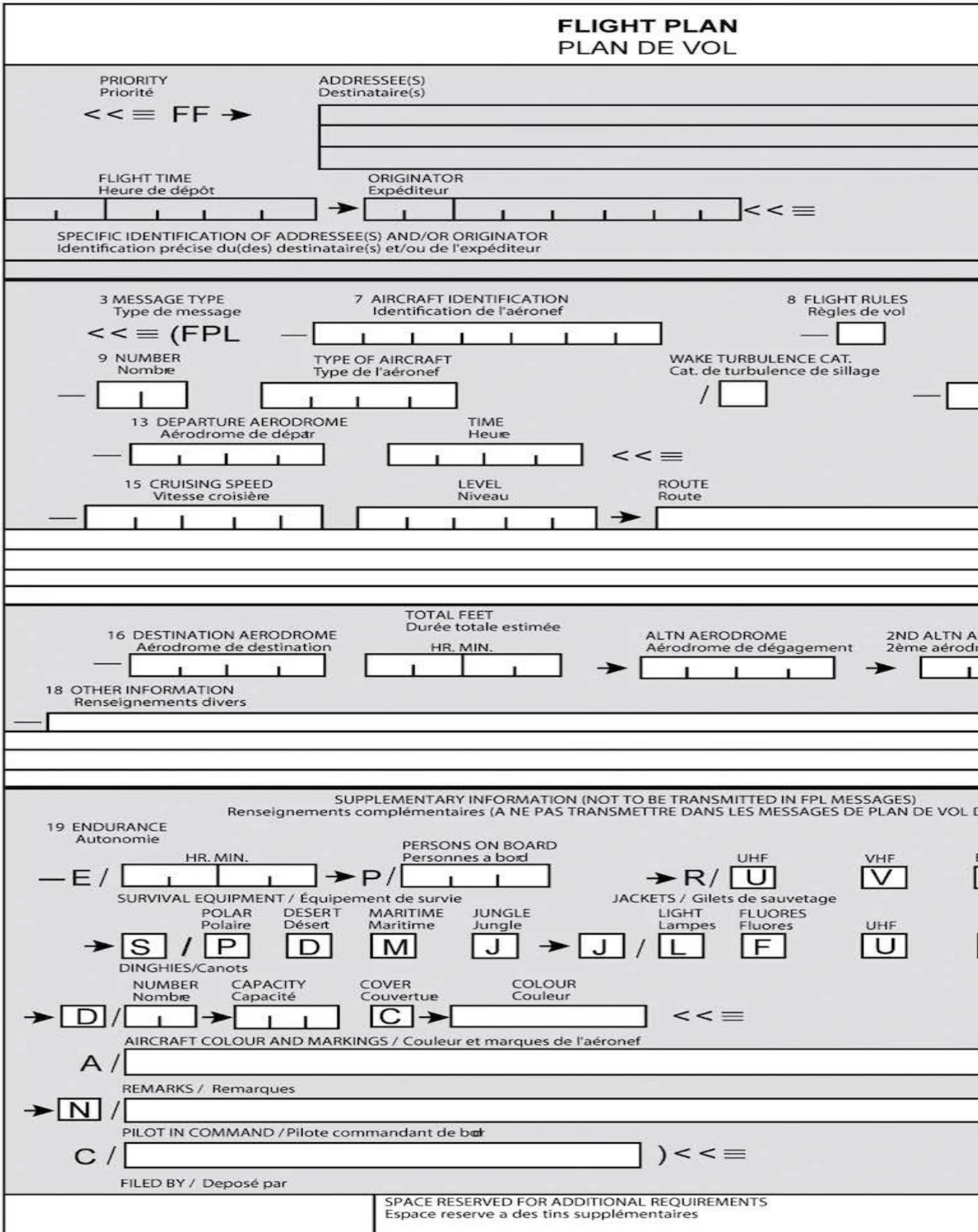

a) B
b) A
c) C
d) P

45. The properties of a gyroscope are: 1 - rigidity in space2 - rigidity on earth 3 - precession4 - Schuler oscillationsThe combination regrouping all the correct statements is:

a) 2, 3.

b) 1, 4.

c) 1, 3.

d) 2, 4.

46. If you pull back the RPM lever of a constant speed propeller during a glide with idle power and constant speed, the propeller pitch will:

a) Increase and the rate of descent will increase.

b) Decrease and the rate of descent will decrease.

c) Increase and the rate of descent will decrease.

d) Decrease and the rate of descent will increase.

47. Other factors remaining constant and not limiting, how does increasing pressure altitude affect allowable take-off mass?

a) Allowable take-off mass increases

b) There is no effect on allowable take-off mass

c) Allowable take-off mass decreases

d) Allowable take-off mass remains uninfluenced up to 5000' pressure altitude

48. General provisions - amended clearanceIf an ATC clearance is not suitable to the pilot-in-command of an aircraft

a) The PIC has to accept the ATC clearance. The clearance is based on the flight plan filed with AT

b) The PIC may propose another clearance. ATC has to amend the clearance in accordance with the pilots request.

c) The PIC may propose another clearance. ATC has to amend the clearance in accordance with the pilots request. The PIC may request an amended clearance from the AT Amended clearances will only be given when VMC prevails.

d) The PIC may request and, if practicable, obtain an amended clearance.

49. The stall speed in a 60° banked turn increases by the following factor:

a) 1.41

b) 2.00

c) 1.30

d) 1.07

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

a) Stop transmitting, DISTRESS

b) Stop transmitting, EMERGENCY

c) Stop transmitting, MAYDAY

d) All stations in this frequency, MAYDAY traffic

51. A controlled airspace extending upwards from the surface of the Earth to a specified upper limit is:

a) Control zone.

b) Advisory airspace.

c) Control area.

d) Air traffic zone.

52. The crew of a transport aeroplane prepares a flight using the following data:- Dry operating mass: 90 000 kg- Block fuel: 30 000 kg- Taxi fuel: 800 kg- Maximum take-off mass: 145 000 kg The traffic load available for this flight is:

a) 55 000 kg

b) 25 000 kg

c) 55 800 kg

d) 25 800 kg

53. The spin axis of the turn indicator gyroscope is parallel to the:

a) Pitch axis.

b) Yaw axis.

c) Roll axis.

d) Longitudinal axis.

54. The maximum zero fuel mass is a mass limitation for the:

a) Strength of the fuselage

b) Strength of the wing root

c) Total load of the fuel imposed upon the wing

d) Allowable load exerted upon the wing considering a margin for fuel tanking

55. In what type of nominal orbit are NAVSTAR GPS satellites placed?

a) Elliptical

b) Geo-stationary

c) Circular

d) Height based on QFE

56. Which of the following corresponds to zero fuel mass?

a) Operating mass plus luggage of passengers and cargo.

b) Operating mass plus passengers and cargo.

c) The take-off mass of an aeroplane minus all usable fuel.

d) Take-off mass minus fuel to destination and alternate.

57. Contracting States shall not require the authorized agent or pilot-in-command to deliver to the public authorities concerned, before departure of the aircraft, more than some copies of General Declaration, Cargo Manifest and stores list. The numbers of the copies are:

a) 2 copies of General Declaration and of Cargo Manifest and of a stores list.

b) 3 of each.

c) 2 copies of General Declarations and Cargo Manifest and one copy of a simple stores list.

d) 2 of each.

58. Which of the following statements regarding Alerting service is correct?

a) The Alert phase is established when no communication has been received from an aircraft within a period of thirty minutes after the time a communication should have been received

c) The distress phase is established when an aircraft is known or believed to be the subject of unlawful interference

d) Alerting Service and Flight Information Service are often provided by the same ATS unit

59. According with DOC 4444 (ICAO), a wake turbulence non-radar separation minima of 3 minutes shall be applied to:

a) LIGHT aircraft taking-off behind a MEDIUM aircraft from a parallel runway separated by less than 760 m. (using whole runway)

b) LIGHT aircraft taking -off behind a MEDIUM aircraft when aircraft are using the same runway

c) LIGHT aircraft landing behind a MEDIUM aircraft

d) MEDIUM aircraft landing behind a HEAVY aircraft

60. A jet transport has the following structural limits:-Maximum Ramp Mass: 63 060 kg-Maximum Take Off Mass: 62 800 kg-Maximum Landing Mass: 54 900 kg-Maximum Zero Fuel Mass: 51 300 kgThe aeroplane's fuel is loaded accordance with the following requirements:-Taxi fuel: 400 kg-Trip fuel: 8400 kg-Contingency & final reserve fuel: 1800 kg-Alternate fuel: 1100 kgIf the Dry Operating Mass is 34930 kg, determine the maximum traffic load that can be carried on the flight if departure and landing airfields are not performance limited.

a) 16 430 kg

b) 17 070 kg

c) 16 370 kg

d) 16 570 kg

61. 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.

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

a) No apparent turn.

b) A heading fluctuating about 360°.

c) An apparent turn to the west.

d) An apparent turn to the east.

63. What is the correct way of expressing visibility ?

a) Visibility 1200 feet

b) Visibility 1.2 nautical miles

c) Visibility 1200 metres

d) Visibility 1.2 kilometres

64. SSR - TransponderWhen an aircraft carries a serviceable transponder, the pilot shall operate the transponder:

a) Only when the aircraft is flying within controlled airspace.

b) Only when the aircraft is flying within airspace where SSR is used for ATS purposes.

c) Only when directed by AT

d) At all times during flight, regardless of whether the aircraft is within or outside airspace where SSR is used for ATS purposes.

65. Flutter results from two deformation modes which are:

a) Torsion And Shearing

b) Bending and elongation

c) Torsion and bending

d) Shearing And Elongation

66. The function of the rudder limiter system is:

a) To Restrict The Rudder Deflection During Flight At High Altitudes.

b) To Limit Pedal Movement In Heavy Turbulence.

c) To restrict rudder deflection during flight at high ias.

d) To Reduce Pilot's Workload During Engine Failure.

67. If the elevator trim tab is deflected up, the cockpit trim indicator presents:

a) Neutral

b) Nose-down

c) Nose-left

d) Nose-up

68. When you are intercepting a distress signal and/or message, as a pilot-in-command of an aircraft you shall:

a) - record the position of the transmission

b) - proceed according to the flight plan

c) - complete the SAR report form at the next airport, indicating where you can be reached in order to supply further information.

d) - record the position of the craft in distress

69. Dry air is a mixture of gases. Their volume percentage is about:

a) 18% oxygen, 80% nitrogen, 2% other gases

b) 21% oxygen,78% nitrogen, 1% other gases

c) 25% oxygen, 74% nitrogen, 1% other gases

d) 19% oxygen, 80% nitrogen, 1% other gases

70. In what flight phase are the outboard ailerons (if present) not operated ?

a) During cruise flight.

b) During a landing with strong and gusty crosswind to avoid overcontrolling the aeroplane.

c) In the approach phase, before landing.

d) During take-off, until lift-off.

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Response Scheme

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

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

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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:
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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:
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65:	66:	67:	68:
69:	70:		