

Exam Simulation

ATPL - Airline Transport Pilot license - Meteorology

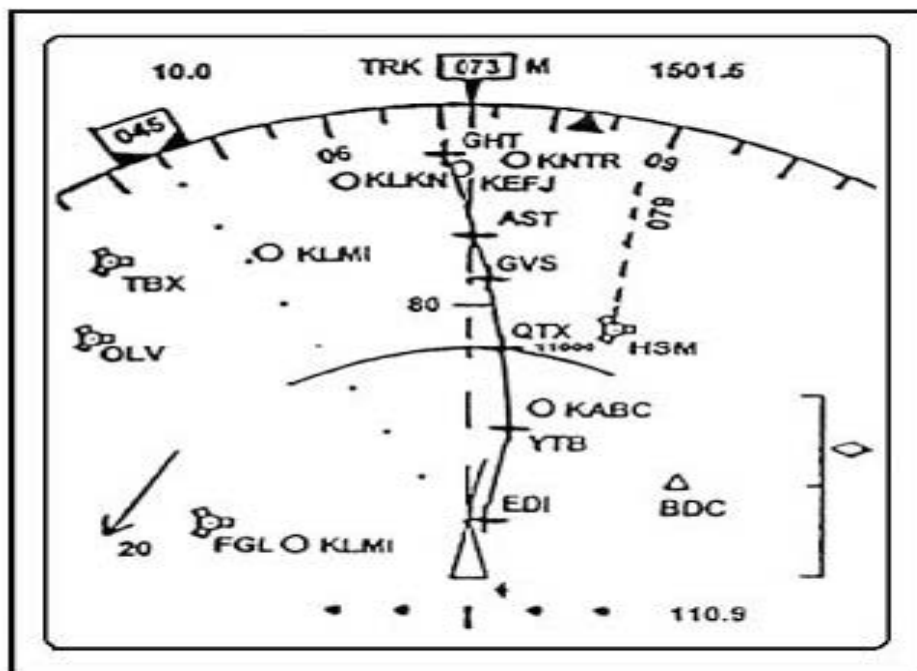


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STUDENT NAME:

DATE AND TIME:

01. What wind velocity is indicated?



- a) 105°(M)/20KT
- b) 285°(M)/20KT
- c) 255°(M)/20KT
- d) 7500

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02. An airplane is cruising at FL 220. The auto-throttle maintains a constant CAS. If the OAT decreases, the Mach number:

- a) Remains constant.
- b) Decreases if OAT is lower than standard temperature, increases in the opposite case.
- c) Decreases.
- d) Increases.

03. An aircraft encountering radio communication failure on an IFR flight in IMC has to land, if possible, within:

- a) 30 minutes after noticing the radio failure
- b) 30 minutes after ETA or the last EAT, whichever is later
- c) 15 minutes after vacating the transition layer
- d) 30 minutes after waiting for the EAT

04. The frontal area of a body, placed in a certain airstream is increased by a factor 3. The shape will not alter. The aerodynamic drag will increase with a factor:

- a) 6
- b) 9
- c) 1.5
- d) 3

05. The optimum long-range cruise altitude for a turbojet aeroplane:

- a) Is always equal to the powerplant ceiling
- b) Is independent of the aeroplane mass
- c) Increases when the aeroplane mass decreases
- d) Is only dependent on the outside air temperature

06. Which degree of aircraft turbulence is determined by the following ICAO description?'There may be moderate changes in aircraft attitude and/or altitude but the aircraft remains in positive control at all times. Usually, small variations in air speed. Changes in accelerometer readings of 0.5 to 1.0 g at the aircraft's centre of gravity. Occupants feel strain against seat belts. Loose objects move about. Food service and walking are difficult.'

- a) Severe.
- b) Light.
- c) Violent.
- d) Moderate.

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07. Given: Position 'A' N60 W020, Position 'B' N60 W021, Position 'C' N59 W020. What are, respectively, the distances from A to B and from A to C?

- a) 60 NM and 30 NM
- b) 52 NM and 60 NM
- c) 60 NM and 52 NM
- d) 30 NM and 60 NM

08. The angle between True North and Magnetic North is called:

- a) Variation
- b) Drift
- c) Compass error
- d) Deviation

09. An aeroplane whose maximum approved passenger seating configuration is 61 to 200 seats must be equipped with at least:

- a) 2 Hand Fire-extinguishers Conveniently Located In The Passenger Compartment.
- b) 4 hand fire-extinguishers conveniently located in the passenger compartment.
- c) 3 hand fire-extinguishers conveniently located in the passenger compartment.
- d) 5 Hand Fire-extinguishers Conveniently Located In The Passenger Compartment.

10. The two main design functions of Secondary Surveillance Radar (SSR) Mode S are:

- a) Collision avoidance using TCAS II and improved long range (HF) communication capability.
- b) Air to ground and ground to air data link communications and improved ATC aircraft surveillance capability
- c) The elimination of ground to air communications and the introduction of automatic separation between aircraft using TCAS II
- d) Aeroplane is circling around the station

11. How should a pilot inform the ATS unit that their aircraft does not have 8.33 KHz capability?

- a) We do not have this frequency
- b) Negative eight point three three
- c) Negative eight point three three frequency equipment
- d) My aircraft is not equipped with eight point three three

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12. The STOPWAY is a defined rectangular area on the ground at the end of take-off run available prepared as a suitable area where:

- a) An aircraft can be stopped in the case of an abandoned take-off.
- b) An aircraft taking-off or landing can be stopped.
- c) A landing aircraft can be stopped only in emergency.
- d) A landing aircraft can be stopped if overcoming the end of runway.

13. The voltage of a fully charged lead-acid battery cell is:

- a) 1,4 Volts.
- b) 1,8 volts.
- c) 2,2 volts.
- d) 1,2 Volts.

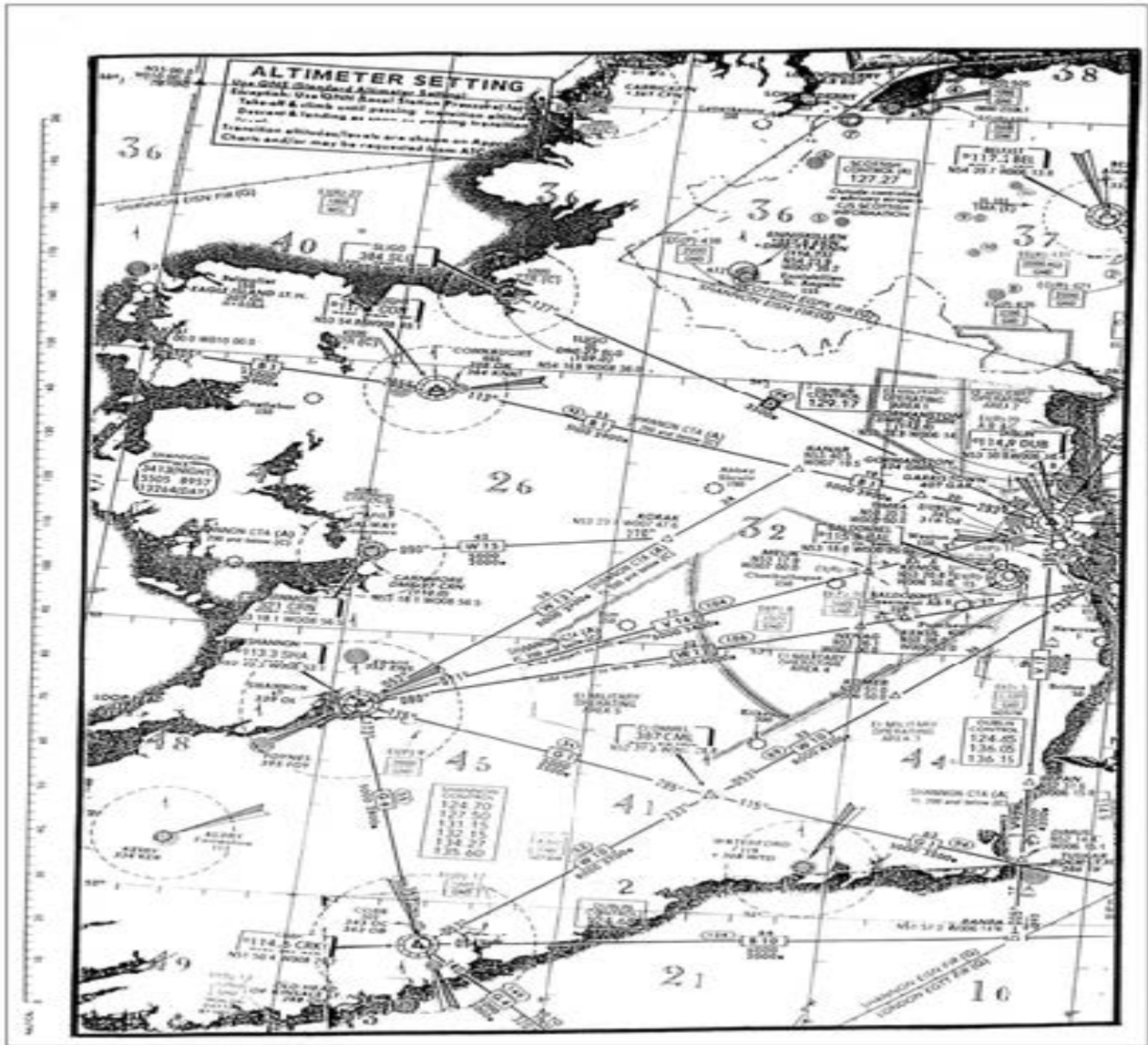
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14. What is the radial and DME distance from BEL VOR/DME (N5439.7 W00613.8) to position N5410 W00710?



- a) 223° - 36 NM
- b) 320° - 44 NM
- c) 236° - 44 NM
- d) 333° - 36 NM

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15. Concerning the NAVSTAR/GPS satellite navigation system, what is the meaning of the term 'Receiver Autonomous Integrity Monitoring' (RAIM)?

- a) It is a technique by which a receiver ensures the integrity of the navigation information
- b) It is a technique whereby the receivers of the world-wide distributed monitor stations (ground segment) automatically determines the integrity of the navigation message
- c) It is a method whereby a receiver ensures the integrity of the Pseudo Random Noise (PRN) code transmitted by the satellites
- d) 6

16. Without any external action, the axis of a free gyroscope is fixed with reference to:

- a) The earth.
- b) The apparent vertical.
- c) The aircraft.
- d) Space.

17. Consider an aerofoil with a certain camber and a positive angle of attack. At which location will the highest flow velocities occur?

- a) Upper side
- b) In the stagnation point
- c) In front of the stagnation point
- d) Lower side

18. The maximum pulse repetition frequency (PRF) that can be used by a primary radar facility in order to detect targets unambiguously at a range of 50 NM is:(pps = pulses per second)

- a) 610 pps
- b) 3240 pps
- c) 713 pps
- d) 330 NM

19. 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

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

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

21. How many feet are equivalent to 9,5 km?

- a) 57.760 ft
- b) 50.160 ft
- c) 9.500 ft
- d) 31.160 ft

22. Long range cruise is a flight procedure which gives:

- a) A specific range which is approximately 99% of maximum specific range and a higher cruise speed
- b) A specific range which is approximately 99% of maximum specific range and a lower cruise speed
- c) An IAS which is 1% higher than the IAS for maximum specific range
- d) A 1% higher TAS for maximum specific range

23. At the surface the lifetime of a typical microburst and the diameter of the area affected by damaging winds are in the order of

- a) 30-40 minutes and 4 km
- b) 5-15 minutes and 8 km
- c) 1-5 minutes and 4 km
- d) 5-10 minutes and 12 km

24. A radio signal loses strength as range from the transmitter increases, this is called:

- a) Attenuation
- b) Ducting
- c) Propagation
- d) Refraction

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25. An integrated aeronautical information package consists of the following elements

- a) AIP, including amendment service
- b) Supplements to AIP, NOTAM, AIC and checklist summaries
- c) AIP, supplements to AIP
- d) NOTAM and PIB

26. In the lower layers of the atmosphere due to friction the wind changes direction towards the low pressure area because:

- a) Turbulence is formed and pressure increases
- b) The pressure gradient increases
- c) Turbulence is formed and pressure decreases
- d) Wind speed decreases and therefore Coriolis force decreases

27. A red flare addressed to a flying aircraft means:

- a) Come back and land.
- b) Give way to another aircraft and hold the circuit.
- c) Not with standing any previous instructions, do not land for the time being.
- d) Dangerous airfield. Do not land.

28. When in the upper part of a layer and warm air is advected in, the:

- a) Stability decreases in the layer
- b) Wind will back with increasing height in the northern hemisphere
- c) Stability increases in the layer
- d) Wind speed will always decrease with increasing height in the northern hemisphere

29. General provisions - Responsibility for terrain clearance Who is in general responsible for an ATC clearance to be safe in respect to terrain clearance?

- a) The AT
- b) The aircraft operator.
- c) The aircraft operator. The ATS reporting office accepting the flight plan.
- d) The pilot-in-command.

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30. The boundary between polar and tropical air is known as:

- a) Tropical front.
- b) Cold front.
- c) Polar front.
- d) Warm front.

31. Waypoints can be entered in an INS memory in different formats. In which of the following formats can waypoints be entered into all INSs?

- a) 1401 UTC
- b) 1333 UTC
- c) After flying 70 NM along track from 'A', the aircraft is 3 MIN ahead of planned time. Using the actual GS experienced, what is the revised ETA at 'B'? 1401 UTC 1333 UTC 1340 UTC
- d) 1347 UTC

32. In the ICAO Standard Atmosphere the decrease in temperature with height below 11 km is

- a) 1°C per 100m
- b) 0.65°C per 100m
- c) 0.6°C per 100m
- d) 0.5°C per 100m

33. Which separation will be provided if Reduced Vertical Separation Minimum (RVSM) is used when operating in MNPS airspace?

- a) 90 NM lateral and 1000 ft vertical.
- b) 60 NM lateral and 1000 ft vertical.
- c) 90 NM lateral and 500 ft vertical.
- d) 60 NM lateral and 500 ft vertical.

34. 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

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35. Member states should introduce specific security measures for the air transport of the following groups of potentially disruptive passengers defined below:

- a) Deportees, inadmissible persons and persons in lawful custody
- b) None of the answers is correct
- c) Deportees and inadmissible persons only
- d) Deportees and persons in lawful custody only

36. A location in the aircraft which is identified by a number designating its distance from the datum is known as:

- a) Station.
- b) Index.
- c) MA
- d) Moment.

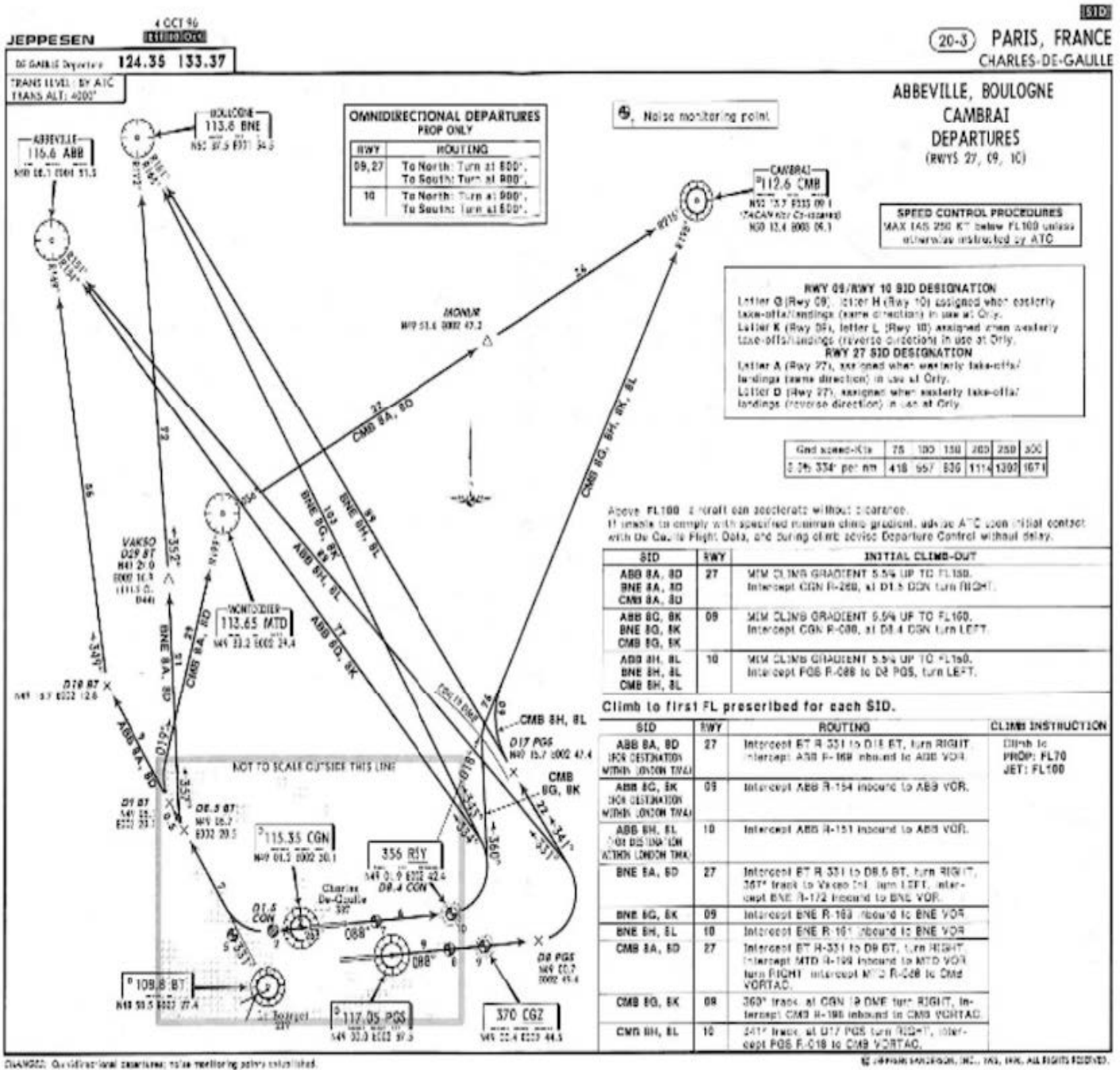
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37. Refer to the Student Pilot Route Manual - PARIS CDG Plate 20-3: Planning an IFR-flight from Paris (Charles de Gaulle) London. Given: Distance from PARIS Charles-de-Gaulle to top of climb 50 NM Determine the distance from the top of climb ABB 116.6.



- a) 24.5 NM
- b) 31 NM
- c) 36.5 NM
- d) 33 NM

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38. In weather radar the use of a cosecant squared beam in 'Mapping' mode enables:

- a) Better reception of echos on contrasting terrain such as ground to sea
- b) A greater radar range to be achieved
- c) Scanning of a large ground zone producing echos whose signals are practically independent of distance
- d) (48°50'N , 006°22'W)

39. What does the instruction:'Fastair 345 standby 118.9 for TOWER' mean:

- a) Fastair 345 should change frequency to 118.9, on which aerodrome data are being broadcast
- b) Fastair 345 should contact TOWER on 118.9
- c) Fastair 345 should listen on frequency 118.9 on which TOWER will initiate further communications
- d) Fastair 345 should standby on the current frequency

40. When a bimetallic strip is used as a switch in a fire detection loop, a fire alarm is triggered after a delay. The purpose of this delay is to:

- a) Delay The Triggering Of The Fire Extinguishers And Increase Their Efficiency
- b) Allow temperatures to equalise
- c) Wait for the triggering of the second fire detection loop in order to confirm the fire
- d) Avoid false alarms in case of vibrations

41. What does the word 'recleared' mean?

- a) Permission for proposed action granted
- b) An error has been made in my last transmission
- c) A change has been made to your last clearance
- d) Consider that transmission as not sent

42. Some inertial reference and navigation systems are known as 'strapdown'. This means that:

- a) N5310 W00830
- b) N5355 W00825
- c) N5307 W00923
- d) N5252 W00923[see Annex]

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43. Which of the following statements about a constant speed propeller is correct?

- a) The RPM decreases with increasing aeroplane speed
- b) The propeller system keeps the aeroplane speed constant
- c) The selected RPM is kept constant by the manifold pressure
- d) The blade angle increases with increasing aeroplane speed

44. What does the word 'correct' mean?

- a) That is correct
- b) Negative, the correct version is ...
- c) Permission for proposed action not granted
- d) An error has been made in this transmission. The correct version is ...



45. Which aeronautical chart symbol indicates a non-compulsory reporting point?

ICAO AERONAUTICAL CHART SYMBOL AIR TRAFFIC SERVICES



OBSTACLES



VISUAL AIDS



- a) 15
- b) 7
- c) 6
- d) 8

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46. Isogonals are lines of equal:

- a) Pressure.
- b) Compass deviation.
- c) Wind velocity.
- d) Magnetic variation.

47. A pilot should not fly immediately after donating blood because:

- a) The chance you get the bends is higher after blood-donation
- b) You have an increased susceptibility to fainting
- c) Your heart rate is too low after blood-donation
- d) Your blood-pressure is too low after blood-donation

48. The validity of the instrument rating (IR) is:

- a) 5 years
- b) 6 months
- c) 2 years
- d) 1 year

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49. Which navigation aid is located in position 48°55'N, 009°20'E ?



- a) NDB
- b) VOR/DME
- c) VOR
- d) TACAN

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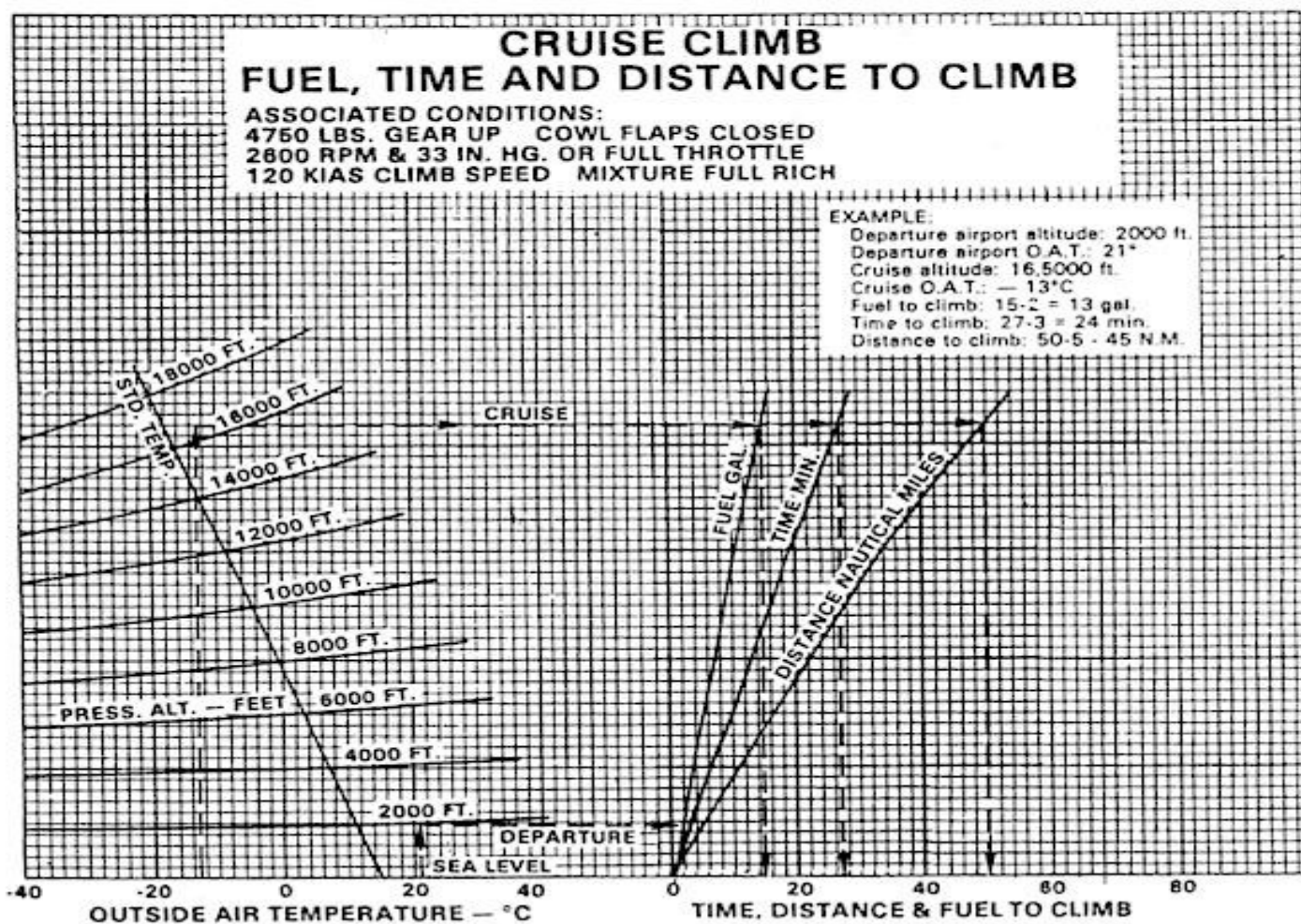
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50. Refer to CAP698 Section 3 - MEP1 Figure 3.1 Normal Procedure Given: OAT -15 °C Pressure Altitude: 4000' RWY 12R Wind - 080/12 KT Take-off Mass: 4000 lbs Runway Surface: tarred and dry What is the minimum runway length? No stopway or clearway is available.

CIVIL AVIATION AUTHORITY
FLIGHT PLANNING & MONITORING

DATA SHEET
MEP1

Figure 3.1 CLIMB



- a) 1250 ft
- b) 1750 ft
- c) 1950 ft
- d) 1550 ft

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51. What does the instruction 'Vacate left' mean ?

- a) Give way to aircraft from the left
- b) Clear the runway immediately
- c) Turn left to leave the runway
- d) Hold position on the left side of the runway

52. VNO is the maximum speed:

- a) Which must never be exceeded.
- b) Not to be exceeded except in still air and with caution.
- c) With flaps extended in landing position.
- d) At which the flight controls can be fully deflected.

53. Given: CON VOR/DME (N5354.8 W00849. 1) Abbey Shrule aerodrome (N5335 W00739) What is the CON radial and DME distance when overhead Abbey Shrule aerodrome?

- a) 296° - 46 NM
- b) 116° - 47 NM
- c) 304° - 47 NM
- d) 123° - 46 NM[see Annex]

54. An aeroplane has static directional stability

- a) In a side-slip to the right, initially the:
- b) Nose of the aeroplane tends to move to the right.
- c) Nose of the aeroplane tends to move to the left.
- d) Nose of the aeroplane will remain in the same direction.

55. Clear ice forms on an aircraft by the freezing of:

- a) Small supercooled water drops
- b) Water vapour
- c) Snow
- d) Large supercooled water drops

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56. Which component of the Electronic Flight Instrument System generates the visual displays on the EADI and EHSI?

- a) Flight Control Computer
- b) Flight Management Computer
- c) Navigation database
- d) 17 NM

57. A typical frequency employed in Distance Measuring Equipment (DME) is:

- a) 100 MHz
- b) 10 MHz
- c) 100 GHz
- d) SHF band and uses frequency modulation techniques

58. RADAR instructs aircraft X-BC:'X-BC squawk ident'. What does this mean:

- a) Radar identification has been achieved by correlating an observed radar blip with aircraft XY-ABC
- b) X-BC should perform an identification turn of at least 020 degrees
- c) X-BC shall operate the IDENT button
- d) X-BC shall reselect his assigned mode and code

59. What characteristics will the surface winds have in an area where the isobars on the weather map are very close together?

- a) Very weak but gusty and flowing across the isobars.
- b) Strong and flowing across the isobars.
- c) Moderate and flowing parallel to the isobars.
- d) Strong and flowing parallel to the isobars.

60. When the term 'CAVOK' is used in an aviation routine weather report (METAR), the values of visibility and clouds are:

- a) Visibility 10 km or more, no clouds below 5000 feet/GND
- b) Visibility more than 5000 m, no clouds below 1500 m/GND
- c) Visibility more than 8 km, no clouds below 3000 feet/GND
- d) Visibility 10 km or more, no clouds below 1500 feet/GND

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61. Given: True course A to B = 250° Distance A to B = 315 NM TAS = 450 kt. W/V = 200°/60kt. ETD A = 0650 UTC. What is the ETA at B?

- a) 0730 UTC
- b) 0736 UTC
- c) What is the ETA at B? 0730 UTC 0736 UTC 0716 UTC
- d) 0810 UTC

62. When an aircraft subjected to an unlawful interference has landed it shall notify by the most expeditious means of the State of registry of the aircraft and the State of the operator of the landing and shall similarly transmit all other relevant information to the:

- a) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens are known to be on board the aircraft and the ICAO
- b) Two aforementioned States and the ICAO
- c) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens were detained as hostages, each State whose citizens are known to be on board the aircraft and the ICAO
- d) Two aforementioned States, each State whose citizens suffered fatalities or injuries on board the aircraft and the ICAO

63. A person being exposed to extreme or prolonged stress factors can perceive:

- a) Coping stress
- b) Eustress
- c) Distress
- d) Stressors

64. RADAR informs aircraft X-BC: 'X-BC identified'. What does this mean:

- a) X-BC should perform an identification turn
- b) X-BC is not visible on the radar screen
- c) X-BC should operate the IDENT-button
- d) Radar identification has been achieved

65. Given: TAS = 140 kt, True HDG = 302°, W/V = 045°(T)/45kt Calculate the drift angle and GS?

- a) 9°L - 146 kt
- b) 9°R - 143 kt
- c) 18°R - 146 kt
- d) 16°L - 156 kt

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66. Which of the following abilities will not improve efficient decision making on the cockpit?

- a) Ability to persuade others to follow your own point of view.
- b) Ability to think ahead and specify alternative courses of action.
- c) Ability to search for and examine all available information regarding a situation.
- d) Communicational skills and social competence.

67. ICAO Annex 11 defines Area Navigation (RNAV) as a method of navigation which permits aircraft operation on any desired flight path:

- a) Outside the coverage of station-referenced navigation aids provided that it is equipped with a minimum of one serviceable self-contained navigation aid
- b) Within the coverage of station-referenced navigation aids or within the limits of the capability of self-contained aids, or a combination of these
- c) Outside the coverage of station-referenced navigation aids provided that it is equipped with a minimum of two serviceable self-contained navigation aids
- d) Simultaneously transmit weather and mapping beams

68. In a complex task high levels of arousal

- a) Improve performance
- b) Narrow the span of attention
- c) Reduce failures
- d) Lead to better decision-making

69. An aircraft with a pressurized cabin is settled at its cruise level. During the flight, a malfunction of the pressure controller is detected by the crew and the cabin altitude rate indicator reads -200ft/min. Given that: DELTA P: Differential pressure Zc: Cabin altitude

- a) A Descent Must Be Initiated To Prevent The Oxygen Masks Dropping When Zc Reaches 14000ft.
- b) The aircraft has to climb to a higher flight level in order to reduce Zc to its initial value.
- c) DELTA P will rise up to its maximum value, thus causing the safety relief valves to open.
- d) The Crew Has To Intermittently Cut Off The Incoming Air Flow In Order To Maintain A Zero Zc.

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70. Which of the following factors will lead to an increase of ground distance during a glide, while maintaining the appropriate minimum glide angle speed?

- a) Increase of aircraft mass
- b) Decrease of aircraft mass
- c) Tailwind
- d) Headwind

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Answer scheme

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

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

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Response form

Use this form to mark your answers

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