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STUDENT NAME:

DATE AND TIME:

01. What type of satellite navigation system NAVSTAR/GPS receiver is most suitable for use on board an aircraft?

- a) Multiplex
- b) Sequential
- c) Any hand held type
- d) Multichannel

02. Among the functions below, which is the most sensitive to hypoxia?

- a) Hearing
- b) Motor coordination
- c) Speech.
- d) Night vision

03. The troposphere

- a) Contains all oxygen of the stratosphere
- b) Is the separation layer between the stratosphere and atmosphere
- c) Has a greater vertical extent above the equator than above the poles
- d) Reaches the same height at all latitudes

04. When a person is found inadmissible and is returned to the operator for transport away from the territory of the state, the operator:

- a) Is not responsible for the person inadmissible for entry in the receiving state
- b) Shall not recover from such person any transportation costs arising from his (her) inadmissibility
- c) And the state of the operator are both responsible for the person inadmissible
- d) Shall not be preclude from recovering from such person any transportation costs arising from his (her) inadmissibility

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05. The airspeed indicator of a twin-engine aircraft comprises different sectors and colour marks. The blue line corresponds to the:

- a) Speed not to be exceeded, or VNE
- b) Optimum climbing speed with one engine inoperative, or V_y
- c) Maximum speed in operations, or VMO
- d) Minimum control speed, or VMC

06. When an aircraft has turned 90 degrees with a constant attitude and bank, the pilot observes the following on a classic artificial horizon:

- a) Too much nose-up and bank correct
- b) Attitude and bank correct
- c) Too much nose-up and bank too high
- d) Too much nose-up and bank too low

07. If during flight a pilot is in a mental condition of 'optimum arousal' he/she will be:

- a) Unprepared to handle a difficult situation
- b) Approaching a condition of complacency or fatigue
- c) Prepared best to cope with a difficult task
- d) In a confused mental state

08. During a glide at constant Mach number, the pitch angle of the aeroplane will:

- a) Increase
- b) Increase at first and decrease later on
- c) Decrease
- d) Remain constant

09. What is the name given to an Inertial Reference System (IRS) which has the gyros and accelerometers as part of the unit's fixture to the aircraft structure?

- a) Rigid
- b) Strapdown
- c) Ring laser
- d) Solid state

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10. A Category 1 Instrument Landing System (ILS) ground installation provides accurate guidance from coverage limit down to:

- a) Runway surface
- b) 200 feet above the runway threshold
- c) 50 feet above ILS reference point
- d) 200 feet above the inner marker

11. The Dry Operating Mass includes:

- a) Crew and crew baggage, catering, removable passenger service equipment, potable water and lavatory chemicals.
- b) Passengers baggage and cargo.
- c) Fuel and passengers baggage and cargo.
- d) Unusable fuel and reserve fuel.

12. Considering only structural limitations, on very short legs with minimum take-off fuel, the Traffic Load is normally limited by:

- a) Maximum Zero Fuel Mass.
- b) Actual Landing Mass.
- c) Maximum Take-off Mass.
- d) Maximum Landing Mass.

13. Thermal plugs are installed in:

- a) Wheel rims.
- b) Cargo compartments.
- c) Cabin windows.
- d) Fire warning systems.

14. When compared to still air conditions, a constant headwind component:

- a) Increases the best rate of climb
- b) Decreases the angle of climb
- c) Increases the angle of flight path during climb
- d) Increases the maximum endurance

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15. An aircraft experiencing radio communication failure on an IFR flight in IMC is assumed to:

- a) Proceed to an area from where the flight can be continued according to the visual flight rules
- b) Proceed in accordance with the current flight plan to the designated navigation aid serving the destination aerodrome
- c) Execute a VMC approach at the nearest suitable aerodrome
- d) Divert to the most suitable aerodrome according to the route of flight

16. For a conventional DME facility 'Beacon Saturation' will occur whenever the number of aircraft interrogations exceeds:

- a) 60
- b) 200
- c) 80
- d) 100

17. Of the following alternatives, which effects are due to positive acceleration (+ Gz)? - 1: Decrease in heart rate - 2: Pooling of blood into lower parts of the body - 3: Drop in blood pressure above heart-level - 4: Downward displacement or deformation of soft or mobile organs

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

18. While inertial platform system is operating on board an aircraft, it is necessary to use a device with the following characteristics, in order to keep the vertical line with a pendulous system:

- a) Without damping and a period of about 84 minutes
- b) Without damping and a period of about 84 seconds
- c) With damping and a period of about 84 minutes.
- d) With damping and a period of 84 seconds

19. What does the word 'wilco' mean?

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

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20. In Airborne Weather Radar (AWR), the main factors which determine whether a cloud will be detected are:

- a) Size of the water drops, wavelength / frequency used
- b) Rotational speed of radar scanner, range from cloud
- c) Size of the water drops, diameter of radar scanner
- d) Range from cloud, wavelength / frequency used

21. A braking action of 0.25 and below reported on a SNOWTAM is:

- a) Unreliable
- b) Medium
- c) Poor
- d) Good

22. How shall a pilot inform the control tower that they have to abandon the take-off manoeuvre:

- a) Stopping
- b) Cancelling take-off
- c) Aborting take-off
- d) Abandoning take-off

23. According to EASA CS-25 failure-condition classifications, the worst effect of a MINOR failure condition on the aeroplane may be:

- a) Significant reduction in functional capabilities or safety margins.
- b) Large reduction in functional capabilities or safety margins.
- c) Slight reduction in functional capabilities or safety margins.
- d) No effect on operational capabilities or safety.

24. What does the instruction 'Orbit right' mean?

- a) Turn right to avoid other traffic
- b) Make 360° turns to the right
- c) Leave the runway to the right
- d) Right-hand circuits are in use

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25. Given: TAS = 205 kt, HDG (T) = 180°, W/V = 240/25kt. Calculate the drift and GS?

- a) 7L - 192 kt
- b) 6L - 194 kt
- c) 4L - 195 kt
- d) 3L - 190 kt

26. A substance which may never be used in the vicinity or on parts of an oxygen installation is:

- a) Grease
- b) Nitrogen
- c) Water
- d) Halon

27. During a category III automatic approach, the position signals in the vertical plane under 200 ft are based on:

- a) An altimeter set to the QFE.
- b) A radio altimeter.
- c) An altimeter set to 1013 hPa.
- d) An altimeter set to the QNH.

28. What is the transponder code for radio communication failure:

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

29. A 'current flight plan' is a:

- a) Filed flight plan.
- b) Flight plan with the correct time of departure.
- c) Filed flight plan with amendments and clearance included.
- d) Flight plan in the course of which radio communication should be practised between aeroplane and ATC

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30. If somebody starts breathing faster and deeper without physiological need

- a) The blood turns more acid
- b) The acid-base balance of the blood will not change
- c) The blood turns more alkaline
- d) The blood pressure in the brain will rise significantly

31. 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

32. The total gas volume of the lung is the sum of: 1. tidal volume 2. inspiratory reserve volume 3. expiratory reserve volume 4. residual volume Which of the following lists the correct combination?

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

33. Windshear may be described as a change in wind direction and/or speed in space, including updraughts and downdraughts. To counter the effects of windshear the amount of control action that is required is:

- a) Medium
- b) Small
- c) Nil
- d) Substantial

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34. A temperature of +15°C is recorded at an altitude of 500 metres above sea level. If the vertical temperature gradient is that of a standard atmosphere, what will the temperature be at the summit of a mountain, 2500 metres above sea level?

- a) 0°C
- b) +4°C
- c) -2°C
- d) +2°C

35. In the vicinity of industrial areas, smoke is most likely to affect surface visibility when

- a) The surface wind is strong and gusty
- b) There is a low level inversion
- c) A rapid moving cold front has just passed the area
- d) Cumulus clouds have developed in the afternoon

36. Which of the following statements regarding filing a ATC flight plan is correct?

- a) In case of ATFM (Air Traffic Flow Management) the flight plan should be filed at least three hours in advance of the EOBT.
- b) A flying college can file repetitive flight plan for VFR flights.
- c) A flight plan should be filed when a national FIR boundary will be crossed.
- d) Any flight plan should be filed at least 10 minutes before departure.

37. 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

38. What effect has a centre of gravity close to the most forward limit?

- a) A better rate of climb capability.
- b) A reduction in the specific fuel consumption.
- c) A reduced rate of climb capability.
- d) A decreased induced drag.

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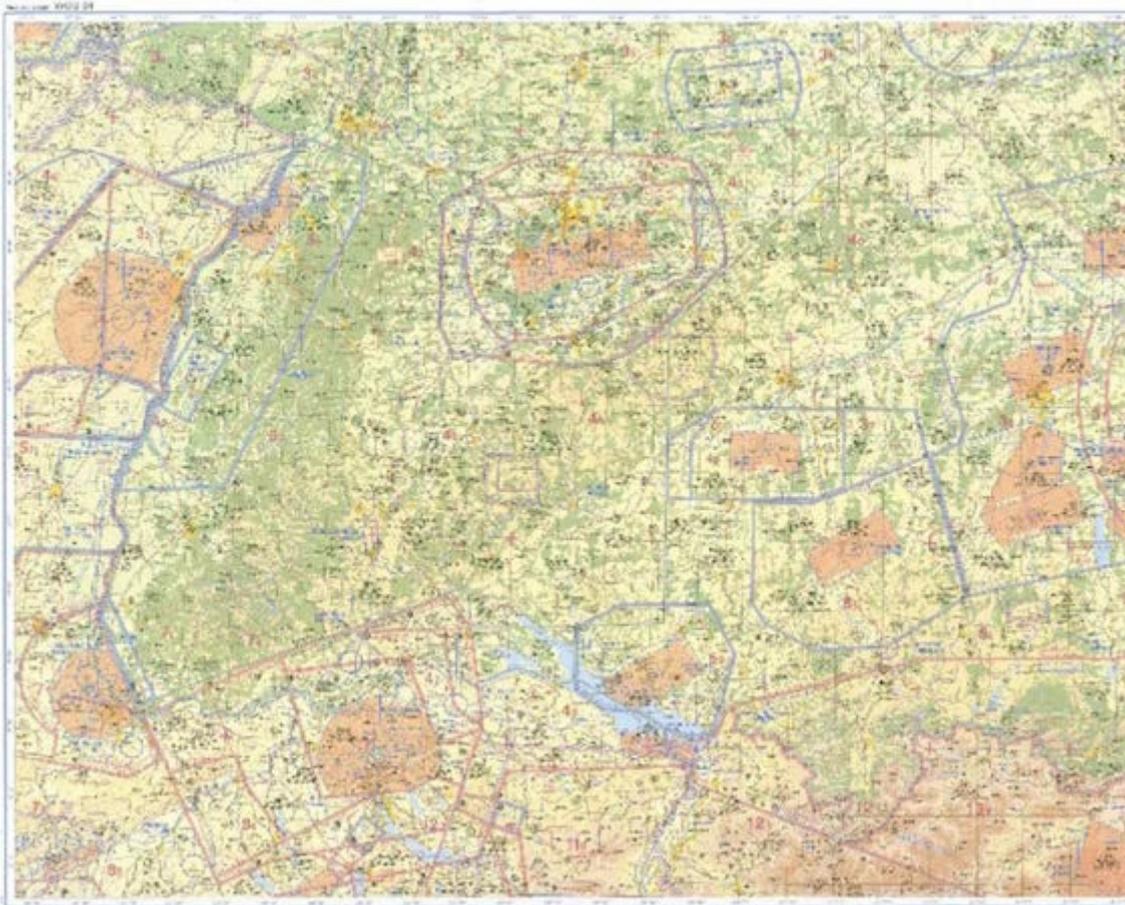


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39. Which statement applies to hypoxia?

- a) You may become immune to hypoxia when exposed repeatedly to hypoxia
- b) Carbon monoxide increases the tolerance of the brain to oxygen deficiency
- c) It is possible to predict when, how and where hypoxia reaction starts to set in
- d) Sensitivity and reaction to hypoxia varies from person to person

40. Refer to the General Student Pilot Route Manual - VFR Chart 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 magnetic course.



- a) 257°
- b) 063°
- c) 077°
- d) 243°

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41. What approximate rate of descent is required in order to maintain a 3° glide path at a groundspeed of 120 kt?

- a) 600 FT/MIN
- b) 950 FT/MIN
- c) 800 FT/MIN
- d) 550 FT/MIN

42. An aneroid capsule: 1 - measures differential pressure 2 - measures absolute pressure 3 - is used for low pressure measurement 4 - is used for very high pressure measurement. The combination regrouping all the correct statements is:

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

43. When asked by ATC 'ARE YOU ABLE TO MAINTAIN FL80?' the correct reply contains the word:

- a) AFFIRM or NEGATIVE
- b) WILCO
- c) CLEARED
- d) ROGER

44. Under which of the following circumstances does a VOR/DME Area Navigation system switch to Dead Reckoning mode?

- a) VOR/DME Area Navigation computer is not receiving information from the aircraft compass system.
- b) VOR/DME Area Navigation computer is not receiving information from the Air Data Computer.
- c) When "DR" is selected by the pilot.
- d) VOR/DME Area Navigation computer is receiving neither radial nor distance data information from VOR/DME stations.

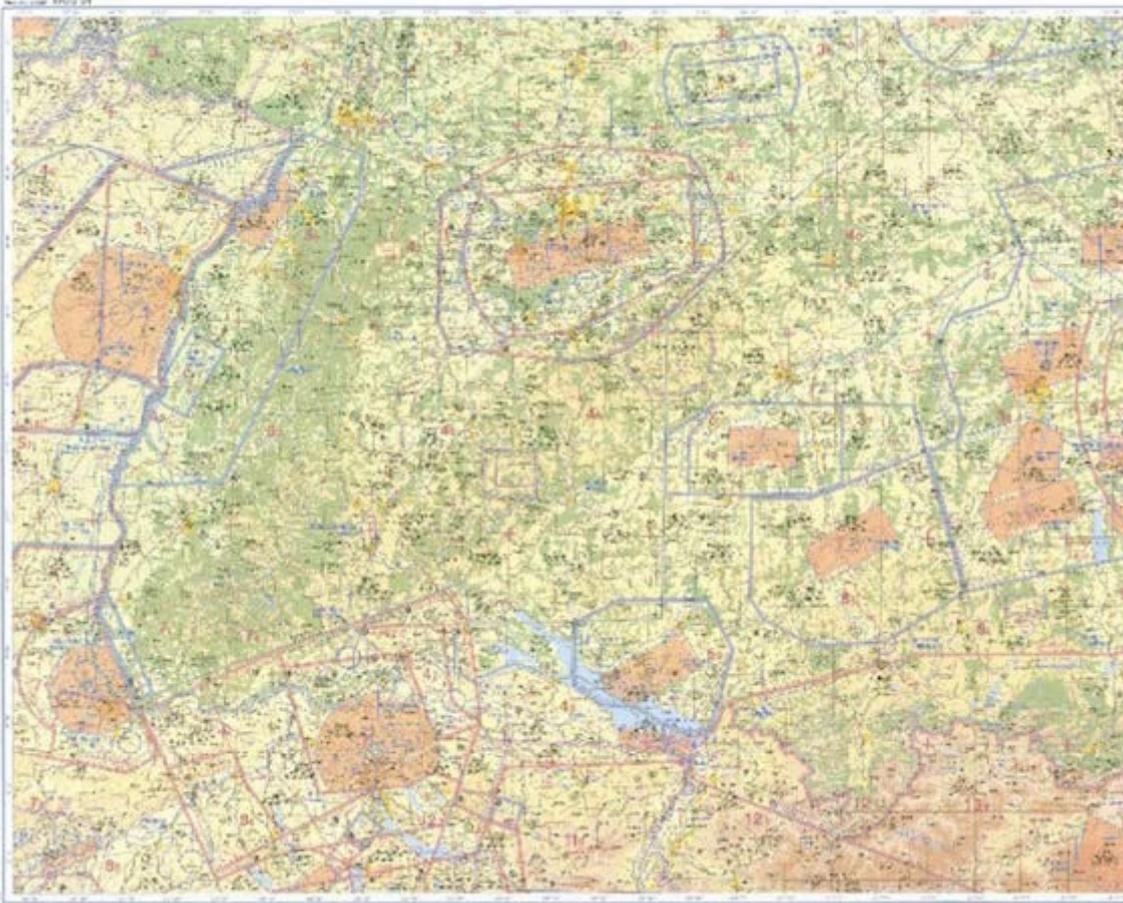
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45. Refer to the Student Pilot Route Manual - VFR Chart ED-4 Flying from ERBACH airport (48°21'N, 009°55'E) to POLTRINGEN airport (48°33'N, 008°57'E). Find magnetic course and the distance.



- a) Magnetic course 285°, distance 41 NM
- b) Magnetic course 289°, distance 76 km
- c) Magnetic course 287°, distance 60 NM
- d) Magnetic course 108°, distance 41 NM

46. In the Air OPS, a runway is referred to as contaminated when more than 25 % of the required runway surface is covered with the one of the following elements: 1. a water film sufficiently thick to give a shiny appearance to the runway. 2. a water film or loose or slushy snow equivalent to more than 3 mm of water. 3. compacted snow (a solid mass which may not be compacted further). 4. ice, including wet ice. 5. moist grass. The combination regrouping all the correct statements is:

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

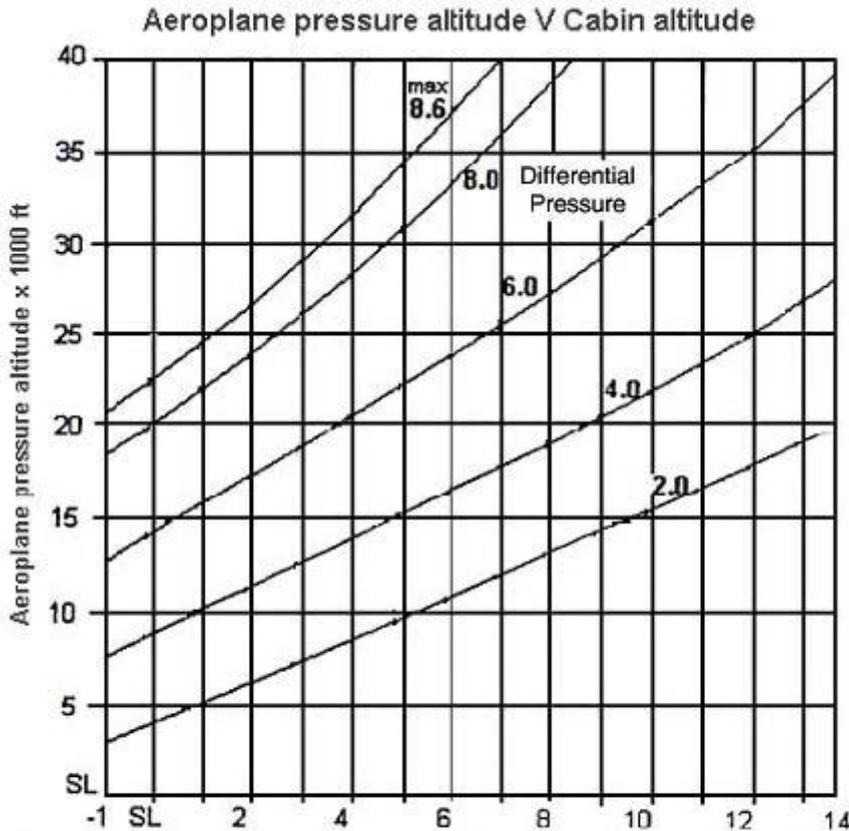
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47. Due to a cabin pressurisation defect the maximum differential pressure is limited to 2 psi. Assuming the oxygen masks will be deployed at 14000 feet, the maximum achievable flight altitude is approximately:



The graph shows aeroplane cruising altitude versus cabin altitude when the aeroplane's pressure altimeter and cabin pressure Controller are set to 1013.2 hPa. The graph is used to determine / select cabin altitude appropriate to the aeroplane's cruise altitude, and also, by a combination of the same parameters to determine the differential pressure prevailing at these altitudes.

- a) 12000 ft
- b) 8600 ft
- c) 20750 ft
- d) 2900 ft

48. Given the following: D = flight distance X = distance to Point of Equal Time GSo = groundspeed out GSr = groundspeed return. The correct formula to find distance to Point of Equal Time is:

- a) $X = (D/2) \times GSo / (GSo + GSr)$
- b) $X = D \times GSo / (GSo + GSr)$
- c) $X = (D/2) + GSr / (GSo + GSr)$
- d) $X = D \times GSr / (GSo + GSr)$

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49. What does the abbreviation 'AIS' mean?

- a) Aerodrome identification signal-area
- b) Aeronautical information service
- c) Aerodrome information service
- d) Airport information system

50. Personality is based on: 1. Heredity 2. Upbringing 3. Experience 4. Childhood

- a) 1, 2, 3 and 4 are correct
- b) 2, 3 and 4 only are correct
- c) None of the listed answers is correct
- d) 1, 2 and 4 only are correct

51. When an aircraft will pass through the level of another aircraft on the same track, the following minimum longitudinal separation shall be provided:

- a) 10 minutes at the time the level is crossed.
- b) 15 minutes at the time the level is crossed.
- c) 20 minutes at the time the level is crossed.
- d) 5 minutes at the time the level is crossed.

52. The phases related to an aircraft in emergency or believed in emergency are:

- a) Uncertainty phase, alert phase, distress phase and urgency phase.
- b) Uncertainty phase, urgency phase, distress phase.
- c) Uncertainty phase, alert phase, distress phase.
- d) Uncertainty phase, distress phase, urgency phase.

53. In order to maintain an accurate vertical using a pendulous system, an aircraft inertial platform incorporates a device:

- a) without damping and a period of 84.4 MIN
- b) without damping and a period of 84.4 SEC
- c) with damping and a period of 84.4 MIN
- d) with damping and a period of 84.4 SEC

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54. Arrival and Approach segments, General. What are the names of all separate segments that can be part of an instrument approach procedure?

- a) Initial, intermediate, final.
- b) Arrival, holding, initial, intermediate, final, missed approach.
- c) Arrival, initial, intermediate, final, missed approach.
- d) Descend, holding arrival, initial, intermediate, final, missed approach.

55. Which of the following signals is a distress signal?

- a) The repeated switching on and off of the landing lights.
- b) A parachute flare showing a red light.
- c) In radiotelephony the spoken words PAN, PAN.
- d) The repeated switching on and off of the navigation lights.

56. The selection of code 7600 on an aircraft SSR transponder indicates:

- a) An emergency
- b) Radio communication failure
- c) Transponder malfunction
- d) Unlawful interference with the planned operation of the flight

57. Given: Magnetic heading 311° Drift angle 10° left, Relative bearing of NDB 270°. What is the magnetic bearing of the NDB measured from the aircraft?

- a) 211°
- b) 208°
- c) 180°
- d) 221°

58. What is the radiotelephony call sign for the aeronautical station indicating approach control radar departures?

- a) ...CONTROL
- b) ...RADAR
- c) ...DEPARTURE
- d) ...APPROACH

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

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

60. For three- and four-engined aeroplanes, the take-off alternate, if required, shall be located (in still air conditions) within:

- a) 2 hours flight time at cruising speed with all engines operating.
- b) 2 hours flight time at one-engine-inoperative cruising speed.
- c) 1 hour flight time at cruising speed with all engines operating.
- d) 1 hour flight time at one-engine-inoperative cruising speed.

61. The term Decision Height (DH) is used for:

- a) A conventional approach followed by a visual manoeuvre.
- b) An indirect approach.
- c) A conventional approach.
- d) A precision approach.

62. At 0000 Local Mean Time of an observer:

- a) The mean sun is in transit with the observer's meridian.
- b) The apparent sun is in transit with the observer's anti-meridian.
- c) The apparent sun is in transit with the observer's meridian.
- d) The mean sun is in transit with the observer's anti-meridian.

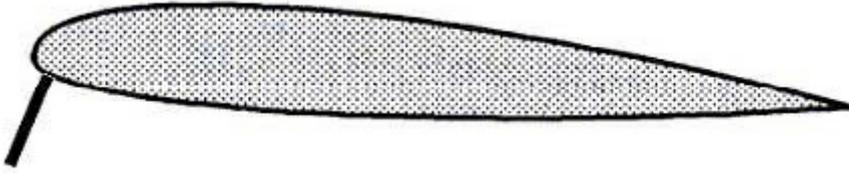
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63. The high lift device shown in the figure below is a:



- a) Slotted flap
- b) Fowler flap
- c) Slot or slat
- d) Krueger flap

64. What are the modulation frequencies of the two overlapping lobes that are used on an ILS approach?

- a) 90 Hz, 150 Hz
- b) 63 MHz, 123 MHz
- c) 328 MHz, 335 MHz
- d) 75 kHz, 135 kHz

65. In case of a hi-jack, the squawk code is:

- a) A 7600
- b) A 7500
- c) A 2000
- d) A 7700

66. Holding procedures (entry). You have received instructions to hold over a radio fix. The published procedure is: All turns to the right, 1 minute outbound, inbound Magnetic Track 052°. You are approaching the fix on Magnetic Track 232°. Select the appropriate entry procedure:

- a) Parallel or direct.
- b) Offset only.
- c) Direct only.
- d) Either offset or parallel.

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67. The Vestibular Apparatus consists of the:

- a) Eustachian tube and the semi-circular canals
- b) Semi-circular canals and the otoliths
- c) Eustachian tube and the pinna
- d) Cochlea and the auditory nerve

68. In an ATC flight plan Item 15 (route), in terms of latitude and longitude, a significant point at 41°35' north 4°15' east should be entered as:

- a) 4135N00415E
- b) N4135 E00415
- c) N04135E0415
- d) 41°35' N 04° 15'E

69. The percentage of oxygen in the air at an altitude of approximately 34 000 ft is:

- a) 10,5%
- b) 5%
- c) 42%
- d) 21%

70. Floating due to ground effect during an approach to land will occur:

- a) When the height is less than half of the length of the wing span above the surface
- b) At a speed approaching the stall
- c) When a higher than normal angle of attack is used
- d) When the height is less than twice the length of the wing span above the surface

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Response Scheme

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

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