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STUDENT NAME:

DATE AND TIME:

01. A slat will:

- a) Prolongs the stall to a higher angle of attack
- b) Provide a boundary layer suction on the upper surface of the wing
- c) Increase the lift by increasing the wing area and the camber of the aft portion of the wing
- d) Increase the camber of the aerofoil and divert the flow around the sharp leading edge

02. During flight in IMC, the most reliable sense which should be used to overcome illusions is the:

- a) Vestibular sense
- b) 'Seat-of-the-pants-Sense'
- c) Visual sense by looking outside
- d) Visual sense, interpreting the attitude indicator

03. What, if any, is the abbreviated call sign of Fastair 2345?

- a) Fastair 345
- b) No abbreviated form
- c) 2345
- d) Fastair 45

04. A cumulus congestus is:

- a) A remnant of a CB
- b) A cumulus with little vertical development
- c) A cumulus that is of great vertical extent
- d) A cumulus that only occurs in association with the ITCZ

05. Which information can aircraft in flight obtain by VOLMET:

- a) SIGMET
- b) SPECI and TAF
- c) Runway reports
- d) Aviation routine weather reports (METAR) of specific airports

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06. 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

07. Which word or phrase shall be used in order to repeat for clarity or emphasis?

- a) Confirm
- b) Read back
- c) I say again
- d) Verify

08. Mass for individual passengers (to be carried on an aircraft) may be determined from a verbal statement by or on behalf of the passengers if the number of

- a) Passengers carried is less than 6.
- b) Passenger seats available is less than 20.
- c) Passenger seats available is less than 10.
- d) Passengers carried is less than 20.

09. Which phenomena will normally influence the reception of VHF transmission?

- a) Electrical discharges as they happen frequently in thunderstorms
- b) The ionosphere
- c) Day and night effect
- d) Level of aircraft and terrain elevations

10. In the ATS flight plan, for a non-scheduled flight which of the following letters should be entered in item 8 (type of flight):

- a) N/S
- b) G
- c) N
- d) X

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11. The operator of an aircraft equipped with 50 seats uses standard masses for passengers and baggage. During the preparation of a scheduled flight a group of passengers present themselves at the check-in desk, it is apparent that even the lightest of these exceeds the value of the declared standard mass.

- a) The operator may use the standard masses for the load and balance calculation without correction
- b) The operator may use the standard masses for the balance but must correct these for the load calculation
- c) The operator should use the individual masses of the passengers or alter the standard mass
- d) The operator is obliged to use the actual masses of each passenger

12. The QFF at an airfield located 400 metres above sea level is 1016 hPa. The air temperature is 10°C higher than a standard atmosphere. What is the QNH?

- a) 1016 hPa
- b) Less than 1016 hPa
- c) More than 1016 hPa
- d) It is not possible to give a definitive answer

13. Refer to Performance Manual MRJT1 Page 75 Figure 4.7.2 Area of Operation - Diversion Distance One Engine Inoperative Using the above table, in ISA conditions and at a speed of M.70/280KIAS, in an elapsed time of 90 minutes an aircraft with mass at point of diversion 48000 kg could divert a distance of:

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Speed M/KIAS	Div. Wt 1000 kg	TIME MINUTES														
		60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
.70/280	35	406	472	539	605	672	738	805	871	938	1004	1071	1137	1204	1271	1337
	40	402	467	533	598	663	729	794	860	925	990	1056	1121	1187	1252	1318
	45	397	462	526	590	654	718	782	846	910	975	1039	1103	1167	1231	1295
	50	392	454	517	580	642	705	768	830	893	956	1018	1081	1144	1207	1269
	55	385	446	507	568	630	691	752	813	875	936	997	1058	1119	1181	1242
	60	377	437	497	557	616	676	736	796	855	915	975	1035	1094	1154	1214
	65	369	427	486	544	602	660	718	776	835	893	951	1009	1067	1125	1183
	70	363	419	476	532	589	645	702	758	815	871	928	985	1041	1098	1154
.74/290	35	412	478	545	612	678	745	811	878	945	1011	1078	1145	1211	1278	1345
	40	409	474	540	606	672	737	803	869	935	1000	1066	1132	1198	1263	1329
	45	404	469	533	598	663	727	792	856	921	986	1050	1115	1180	1244	1309
	50	400	463	526	590	653	717	780	844	907	970	1034	1097	1161	1224	1288
	55	393	455	517	579	641	704	766	828	890	952	1014	1077	1139	1201	1263
	60	386	447	508	568	629	690	751	812	872	933	994	1055	1116	1176	1237
	65	378	437	497	556	615	675	734	793	853	912	971	1031	1090	1149	1209
	70	372	430	488	546	603	661	719	777	835	893	950	1008	1066	1124	1182
.74/310	35	415	482	548	615	681	748	814	881	948	1014	1081	1147	1214	1280	1347
	40	413	479	545	611	677	743	810	876	942	1008	1074	1140	1206	1272	1338
	45	410	476	541	607	672	737	803	868	933	999	1064	1130	1195	1260	1326
	50	407	472	536	601	665	730	794	859	923	988	1052	1116	1181	1245	1310
	55	402	466	529	592	656	719	783	846	908	973	1036	1100	1163	1226	1290
	60	397	459	521	583	646	708	770	833	895	957	1019	1082	1144	1206	1269
	65	391	452	513	574	635	696	757	818	879	940	1002	1063	1124	1185	1246
	70	385	445	505	565	625	685	744	804	864	924	984	1044	1103	1163	1223
.74/330	35	416	482	548	614	680	746	811	877	943	1009	1075	1141	1207	1273	1339
	40	415	481	547	613	678	744	810	875	941	1007	1072	1138	1204	1270	1335
	45	414	480	545	610	676	741	806	871	937	1002	1067	1133	1198	1263	1328
	50	412	477	542	607	671	736	801	865	930	995	1059	1124	1189	1254	1318
	55	408	472	536	600	664	728	792	856	920	984	1048	1112	1176	1240	1304
	60	404	467	530	593	656	719	783	846	909	972	1035	1098	1161	1224	1287
	65	399	461	523	586	648	710	772	834	896	958	1020	1082	1144	1207	1269
	70	395	457	518	579	640	701	762	823	884	945	1006	1067	1128	1190	1251
LRC	35	368	428	488	548	608	668	728	787	847	906	965	1024	1083	1141	1200
	40	372	433	493	554	614	674	735	794	854	914	973	1032	1092	1151	1209
	45	376	437	497	558	619	679	739	799	859	919	979	1038	1097	1157	1216
	50	379	440	501	561	622	682	742	803	862	922	982	1041	1101	1160	1219
	55	380	441	502	562	623	683	743	803	863	922	982	1041	1100	1159	1218
	60	381	442	503	563	624	684	744	804	863	923	982	1041	1100	1159	1218
	65	381	442	503	563	623	683	742	802	861	921	980	1038	1097	1156	1214
	70	383	444	504	564	623	683	742	802	860	919	978	1036	1094	1152	1210

**ISA
BASED ON DRIFTDOWN STARTING AT OR NEAR OPTIMUM ALTITUDE**

Figure 4.7.2 Area of Operation – Diversion Distance One Engine Inoperative

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- a) 563 NM
- b) 603 NM
- c) 584 NM
- d) 608 NM

14. The span-wise flow is caused by the difference between the air pressure on top and beneath the wing and its direction of movement goes from:

- a) Beneath to the top of the wing via the wing tip
- b) The top to beneath the wing via the leading edge
- c) Beneath to the top of the wing via the trailing edge
- d) The top to beneath the wing via the wing's trailing edge

15. Type ratings shall be established

- a) Only aircraft certificated for operation with a minimum crew of at least two pilots
- b) For any type of aircraft whenever considered necessary by the authority
- c) All the answers are correct
- d) Only for aircraft certificated for operation with a minimum crew of at least two pilots and each type of helicopter

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16. A pilot wishes to turn left on to a southerly heading with 20° bank at a latitude of 20° North. Using a direct reading compass, in order to achieve this he must stop the turn on an approximate heading of:

- a) 160°
- b) 170°
- c) 200°
- d) 190°

17. An aircraft has two certified landing flaps positions, 25° and 35°. If a pilot chooses 25° instead of 35°, the aircraft will have:

- a) A reduced landing distance and better go-around performance
- b) An increased landing distance and better go-around performance
- c) A reduced landing distance and degraded go-around performance
- d) An increased landing distance and degraded go-around performance

18. An aircraft is flying at Mach 0.84 at FL 330. The static air temperature is -48°C and the headwind component 52 kt. At 1338 UTC the controller requests the pilot to cross the meridian of 030W at 1500 UTC. Given the distance to go is 570 NM, the reduced Mach No. should be:

- a) 0.76
- b) 0.78
- c) 0.72
- d) 0.80

19. Alcohol, even when taken in minor quantities

- a) Can make the brain cells to be more susceptible to hypoxia
- b) May improve the mental functions, so that the symptoms of hypoxia are much better to be identified
- c) Will have no effect at all
- d) Will stimulate the brain, making the pilot resistant to hypoxia

20. What does the abbreviation 'SSR' mean?

- a) Search and surveillance radar
- b) Surface strength of runway
- c) Secondary surveillance radar
- d) Standard snow report

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21. What does the abbreviation 'AIS' mean?

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

22. The surveillance radar approach shall be terminated at a distance of 2 NM from the touchdown except when as determined by the appropriate ATS authority, the accuracy of the radar equipment permits to be continued to a prescribed point less than 2 NM from the touchdown. In this case distance and level information shall be given at each

- a) 1 NM
- b) Half NM
- c) Half mile
- d) 1.5 NM

23. Which combination of circumstances or conditions would most likely lead to a tyre speed limited take-off?

- a) A high runway elevation and tailwind
- b) A low runway elevation and a headwind
- c) A high runway elevation and a headwind
- d) A low runway elevation and a cross wind

24. What is normally used for ATIS broadcasts?

- a) Voice channel of an ILS
- b) NDB frequencies
- c) Discrete VHF frequency or/and VOR
- d) DME voice channel

25. The properties of a gyroscope are: 1 - rigidity in space 2 - rigidity on earth 3 - precession 4 - Schuler oscillations. The combination regrouping all the correct statements is:

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

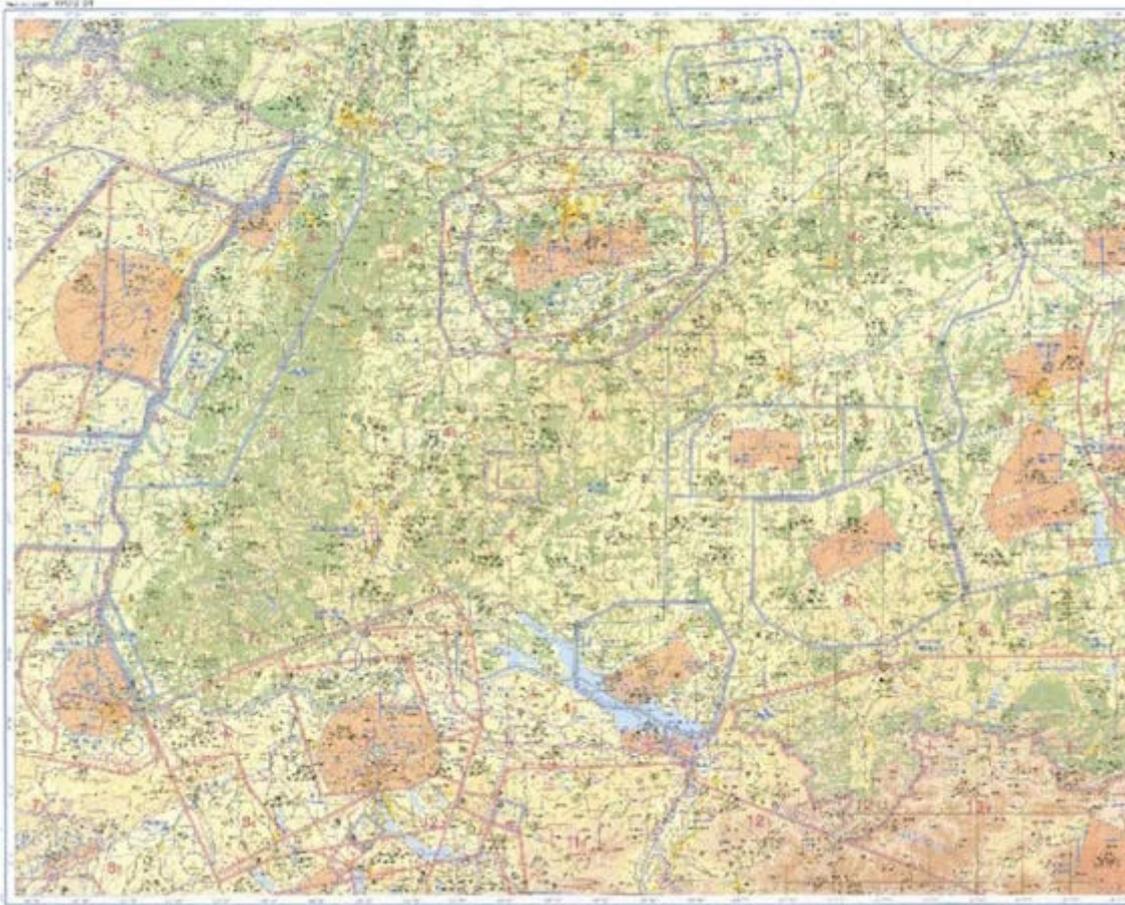
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26. Refer to the Student Pilot Route Manual - VFR Chart ED-4 Flying from ERBACH airport (48°21'N, 009°55'E) to POLTRINGEN airport (48°33'N, 008°57'E). Find magnetic course and the distance.



- 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

27. In order to avoid CB a pilot wants to turn right to a magnetic heading of 100 degrees. The correct way to ask the ATC unit for permission is:

- a) Request right turn to heading one-double-0
- b) Request right turn to heading one-hundred degrees
- c) Request right turn to heading one-point-zero-zero
- d) Request right turn, heading one-zero-zero

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28. The minimum equipment list (MEL) gives the equipment which can be inoperative when undertaking a flight and the additional procedures to be observed accordingly. This list is prepared by:

- a) The operator, and it is inserted in the operations manual
- b) The manufacturer, and it is appended to the flight manual
- c) The operator, and it is appended to the flight manual
- d) The manufacturer, and it is inserted in the operations manual

29. The intersections of the thrust available and the drag curve are the operating points of the aeroplane

- a) In accelerated level flight.
- b) In descent with constant IAS.
- c) In unaccelerated climb.
- d) In unaccelerated level flight.

30. The radar controller is transmitting: 'Confirm squawk'. What does he mean?

- a) The controller wants to know which code is set on the transponder.
- b) The controller requests the registration of the aircraft.
- c) The controller wants you to transmit your bearing.
- d) The controller wants you to repeat your last transmission once again.

31. Which controls act together in a V-tail aircraft?

- a) The stick in one axis and the rudder-pedals.
- b) The rudder-pedals and the mixture.
- c) The stick in one axis and the throttle.
- d) The stick in both axis (push, pull and turn).

32. With hyperventilation, caused by high levels of arousal or overstress:

- a) Finger nails and lips will turn blue ('cyanosis')
- b) An increased amount of carbon dioxide is exhaled causing muscular spasms and even unconsciousness
- c) Peripheral and scotopic vision will be improved
- d) More oxygen will reach the brain

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33. The prime factor in determining the maximum unambiguous range of a primary radar is the:

- a) Pulse recurrence rate
- b) Height of the transmitter above the ground
- c) Size of parabolic receiver aerial
- d) Power output

34. The maximum range of primary radar depends on:

- a) Wave length
- b) Pulse recurrence frequency
- c) Pulse length
- d) Frequency

35. Given: TAS = 135 kt, HDG (°T) = 278, W/V = 140/20kt. Calculate the Track (°T) and GS?

- a) 279 - 152 kt
- b) 272 - 121 kt
- c) 283 - 150 kt
- d) 275 - 150 kt

36. When, in flight, the needle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft is:

- a) Turning right with not enough bank.
- b) Turning right with too much bank.
- c) Turning left with too much bank.
- d) Turning left with not enough bank.

37. A 3-D RNAV system has capability in:

- a) A horizontal plane and cruise management system
- b) A horizontal plane and speed management system
- c) A horizontal plane and vertical plane and timing function
- d) A horizontal plane and the vertical plane

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38. At which altitude, at temperate latitudes, may hail be expected in connection with a CB?

- a) From the ground up to about FL 200.
- b) From the ground up to about FL 100.
- c) From the ground up to a maximum of FL 450.
- d) From the base of the clouds up to about FL 200.

39. Due to risk of tyres explosion, after landing, when the brakes are at a very high temperature, one should approach the landing gear:

- a) Sideways.
- b) Either from aft or fore.
- c) From the inboard side.
- d) From any direction.

40. Gyroscopic precession of a propeller is induced by:

- a) Pitching and yawing.
- b) Increasing RPM and rolling.
- c) Increasing RPM and yawing.
- d) Pitching and rolling.

41. Which phraseology shall a pilot use if he receives an instruction from ATC which he cannot carry out:

- a) Negative instruction
- b) Impossible to make it
- c) Unable to comply
- d) Disregard

42. 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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43. What is the correct way for the pilot to acknowledge that ATIS Information Golf has been received:

- a) Information Golf
- b) We have the ATIS Golf
- c) We have the Information
- d) Weather Golf received

44. Given: Distance from departure to destination: 210 NM Endurance: 2,5 h True Track: 035 W/V: 250/20 TAS: 105 kt. What is the distance of the PSR from the departure point?

- a) 64 NM
- b) 88 NM
- c) 172 NM
- d) 127 NM

45. An aircraft encountering radio communication failure on an IFR flight in VMC is assumed to:

- a) Leave controlled airspace and continue the flight within uncontrolled airspace
- b) Continue to fly in VMC, land at the nearest suitable aerodrome, report its arrival
- c) Continue the flight to destination aerodrome in any case
- d) Squawk IDENT and proceed to the alternate aerodrome

46. In which frequency band do VOR transmitters operate?

- a) SHF
- b) UHF
- c) EHF
- d) VHF

47. An engine failure can result in a windmilling (1) propeller and a feathered (2) propeller. Which statement about propeller drag is correct?

- a) (2) is larger than (1).
- b) (1) is equal to (2).
- c) Impossible to say which one is largest.
- d) (1) is larger than (2).

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48. At approximately what flight level is the subtropical jet stream found?

- a) FL 200
- b) FL 400
- c) FL 500
- d) FL 300

49. What is meant by good microphone technique?

- a) Use a normal conversation tone, speak clearly and distinctly.
- b) Make large use of hesitation sounds as 'er'.
- c) Keep the microphone far away since it improves the readability.
- d) Speak very loudly into the microphone.

50. The Mean Aerodynamic Chord (MAC) for a given wing of any planform is

- a) The chord of a large rectangular wing
- b) The average chord of the actual aeroplane
- c) The chord of a rectangular wing with same moment and lift
- d) The wing area divided by the wing span

51. In the Flight Management Computer (FMC) of the Flight Management System (FMS), data relating to STARs and SIDs is stored in the:

- a) Performance database
- b) Air data computer
- c) Auto flight computers
- d) Navigation database

52. Given: GS = 122 KT. Distance from A to B = 985 NM What is the time from A to B?

- a) 7 h 48 min
- b) 8 h 04 min
- c) 8 HR 10 MIN
- d) 7 h 49 min

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53. In what way do (1) induced drag and (2) parasite drag alter with increasing speed in straight and level flight?

- a) (1) decreases and (2) increases
- b) (1) increases and (2) decreases
- c) (1) decreases and (2) decreases
- d) (1) increases and (2) increases

54. Altitude-hypoxia, when breathing ambient air, should not usually occur (indifferent phase)

- a) Between 3 000 m and 5 000 m
- b) Up to 5 000 m
- c) Between 5 000 m and 7 000 m
- d) Below 3 000 m

55. Which of the following factors leads to the maximum flight time of a glide?

- a) High mass
- b) Low mass
- c) Tailwind
- d) Headwind

56. In twin-jet take-off performance, why can the climb-limit mass curve have a kink at about 30°C and pressure altitude 0 ft?

- a) At lower temperatures one has to take the danger of icing into account
- b) At higher temperatures the VMBE determines the climb limit mass
- c) At higher temperatures the flat rated engines determines the climb limit mass
- d) The engines are pressure limited at lower temperature, at higher temperatures they are temperature limited

57. The core of the polar front jet stream is usually located in the

- a) Polar air below the tropopause
- b) Polar air above the tropopause
- c) Tropical air above the tropical tropopause
- d) Tropical air below the tropopause

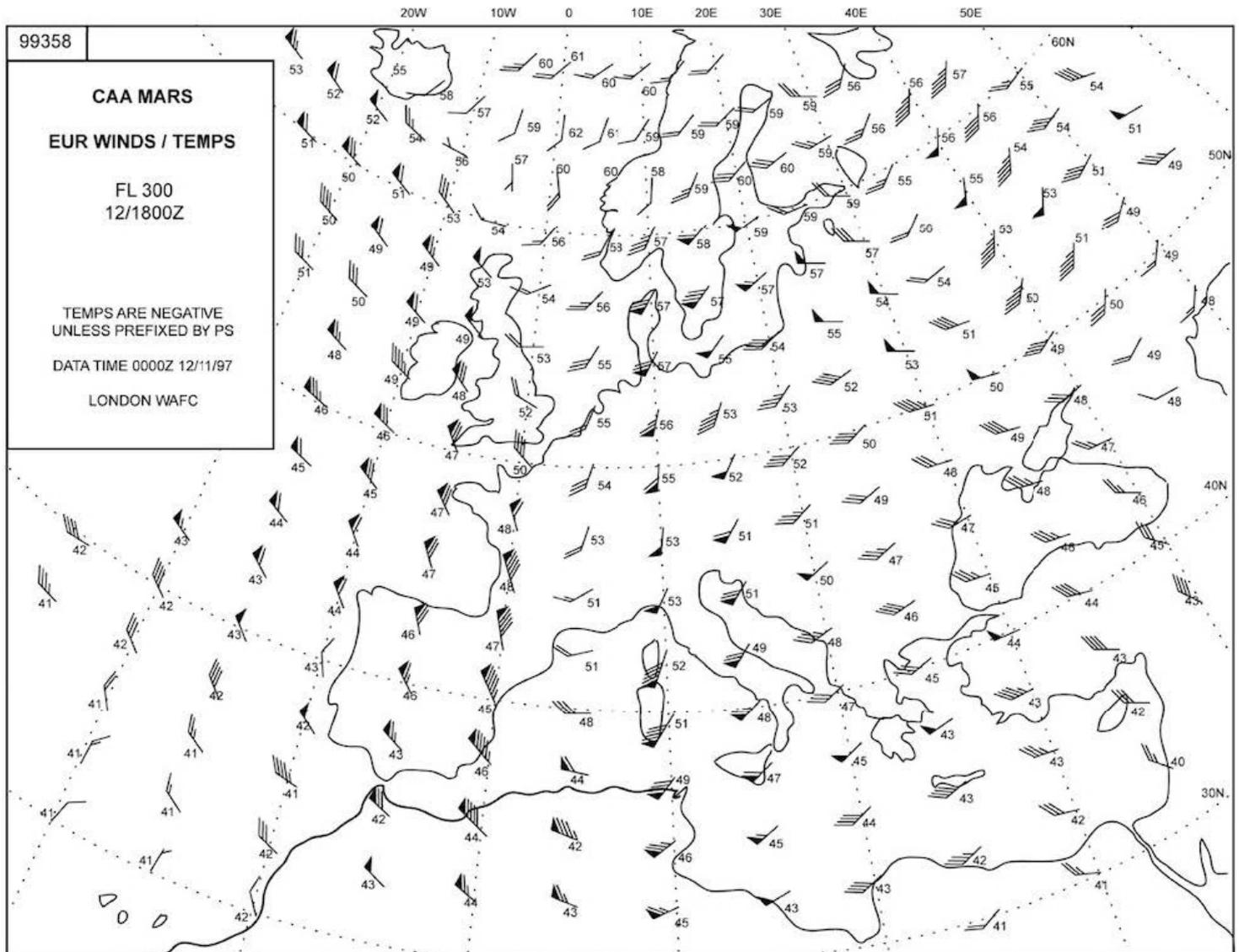
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58. What is the temperature deviation (°C) from ISA over 50° N 010°E?



- a) -55
- b) -10
- c) +10
- d) +2

59. Which statement is correct about the laminar and turbulent boundary layer:

- a) Friction drag will be equal in both types of layers
- b) Friction drag is lower in the laminar layer
- c) Separation point will occur earlier in the turbulent layer
- d) Friction drag is lower in the turbulent layer

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60. Please check the following statements: 1. Psychosomatic means that mental and/or emotional stressors can be manifested in organic stress reactions. 2. Psychosomatic means that a physical problem is always followed by psychological stress.

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

61. The approach climb requirement has been established to ensure:

- a) Minimum climb gradient in case of a go-around with one engine inoperative.
- b) Manoeuvrability during approach with full flaps and gear down, all engines operating.
- c) Manoeuvrability in case of landing with one engine inoperative.
- d) Obstacle clearance in the approach area.

62. 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

63. If the ground wire between the magnetos and the ignition switch becomes disconnected the most noticeable result will be that:

- a) A still operating engine will run down
- b) The engine cannot be started with the ignition switch in the 'ON' position
- c) The engine cannot be shut down by turning the ignition switch to the 'OFF' position
- d) The power developed by the engine will be strongly reduced

64. The frequency 121.500 MHz is designated as:

- a) A frequency for air-to-air communication
- b) An international emergency frequency
- c) An airline operation frequency
- d) A regional UHF frequency

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65. Calculate the D lat from 001°15'N 090°00'E to 090°00'S 090°00'W:

- a) 91°15'N
- b) 268°15'N
- c) 91°15'S
- d) 88°45'N

66. The required 24 NAVSTAR/GPS operational satellites are located on:

- a) 4 orbital planes with 6 satellites in each plane
- b) 3 orbital planes with 8 satellites in each plane
- c) 6 orbital planes with 3 satellites in each plane plus 6 reserve satellites positioned in a geostationary orbital plane
- d) 6 orbital planes with 4 satellites in each plane

67. Which one of the following sets of conditions is the least likely to attract flocks of birds?

- a) An area liable to flooding
- b) Edible rubbish
- c) Short gang-mown grass
- d) Long grass

68. 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

69. The BEM of an aircraft is 30000 kg. Given the following data calculate the DOM: Catering = 300 kg. Crew = 600 kg. Trip Fuel = 1200 kg. Unusable Fuel = 30 kg. Traffic Load = 2500 kg

- a) 30930 kg
- b) 30900 kg
- c) 29100 kg
- d) 34630 kg

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**70. Given: Distance from departure to destination 340 NM True track 320 W/V 160/40 TAS 110 kt
What is the distance of the PET from the departure point?**

- a) 228 NM
- b) 112 NM
- c) 219 NM
- d) 121 NM

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Response Scheme

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

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

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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: _____		