Exam simulation

SPL - Sailplane Pilot License - Communication

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STUDENT NAME:	DATE AND TIME:

01. Which transponder code indicates a loss of radio communication?

a) 2000
b) 7600
c) 7000
d) 7700

02. Which of the following landing areas is most suitable for an off-field landing?

a) A field with ripe waving crops
b) A meadow without livestock
c) A light brown field with short crops
d) A lake with an undisturbed surface

03. What color has the emergency hood release handle?

a) Green
b) Red
c) Yellow
d) Blue

04. The connection between middle ear and nose and throat region is called...

a) Inner ear
b) Eardrum
c) Cochlea
d) Eustachian tube

05. What pattern can be found at the stagnation point?

a) The boundary layer starts separating on the upper surface of the profile
b) All aerodynamic forces can be considered as attacking at this single point
c) The laminar boundary layer changes into a turbulent boundary layer
d) Streamlines are divided into airflow above and below the profile

06. About how many axes does an aircraft move and how are these axes called?

a) 3; vertical axis, lateral axis, longitudinal axis
b) 4; vertical axis, lateral axis, longitudinal axis, axis of speed
c) 3; x-axis, y-axis, z-axis
d) 4; optical axis, imaginary axis, sagged axis, axis of evil

07. What must be considered for cross-border flights?

a) Transmission of hazard reports
b) Requires flight plans
c) Regular location messages
d) Approved exceptions

08. Trim masses or lead plates must be secured firmly when installed into a sailplane, so that...

a) The maximum allowed mass will not be exceeded
b) A comfortable seat position will be assured for the glider pilot
c) They will not block rudders or induce any C.G. shift
d) The glider pilot will not be hurt during flight in thermal turbulences

09. The required data for a mass and balance calculation including masses and balance arms can be found in the...

a) Certificate of airworthiness
b) Mass and balance section of the pilot's operating handbook of this particular aircraft
c) Performance section of the pilot's operating handbook of this particular aircraft
d) Documentation of the annual inspection

10. What is the percentage of nitrogen in the atmosphere?

a) 21 %
b) 78 %
c) 0.1 %
d) 1 %

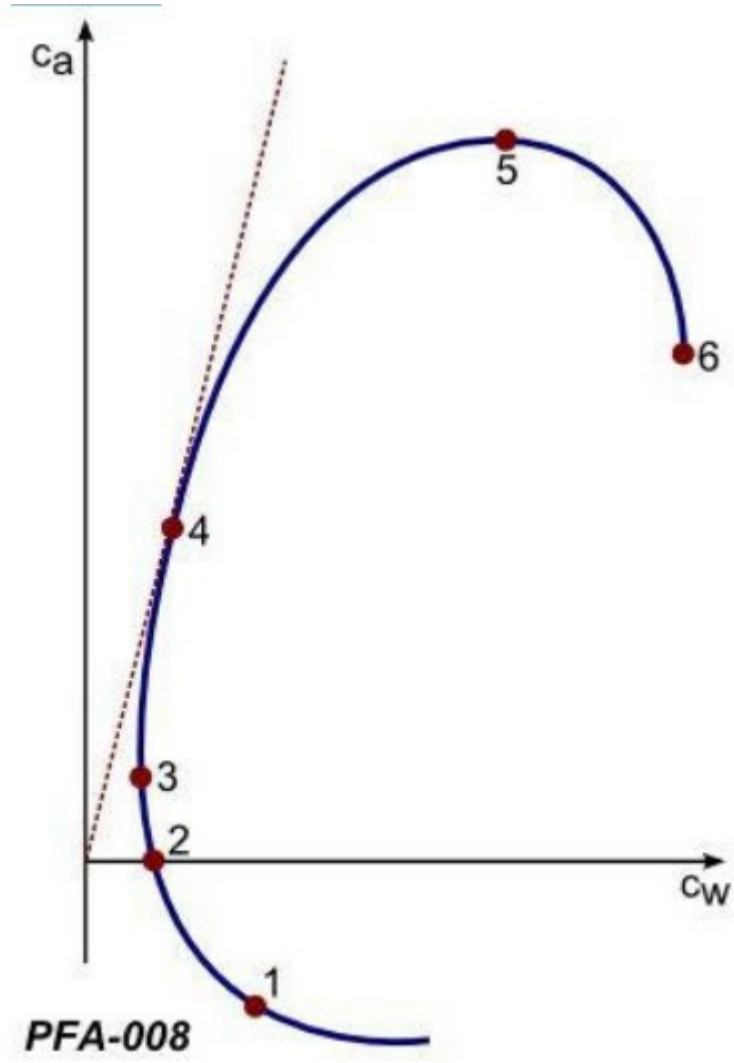
11. Wings level after a longer period of turning can lead to the impression of...

a) Starting a climb
b) Steady turning in the same direction as before
c) Turning into the opposite direction.
d) Starting a descent

12. The trim is used to...

a) Adapt the control force
b) Increase adverse yaw
c) Move the centre of gravity
d) Lock control elements

13. Point number 5 in the figure indicates which flight state? See figure (PFA-008)



a) Slow flight
b) Best gliding angle
c) Inverted flight
d) Stall

14. In which situations should a pilot use blind transmissions?

a) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit

b) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station

c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit

d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

15. Which levers in a glider's cockpit are indicated by the colours red, blue and green? Levers for usage of ...

a) Gear, speed brakes and elevator trim tab

b) Speed brakes, cable release and elevator trim

c) Speed brakes, cabin hood lock and gear

d) Cabin hood release, speed brakes, elevator trim

16. The movement of air flowing apart is called...

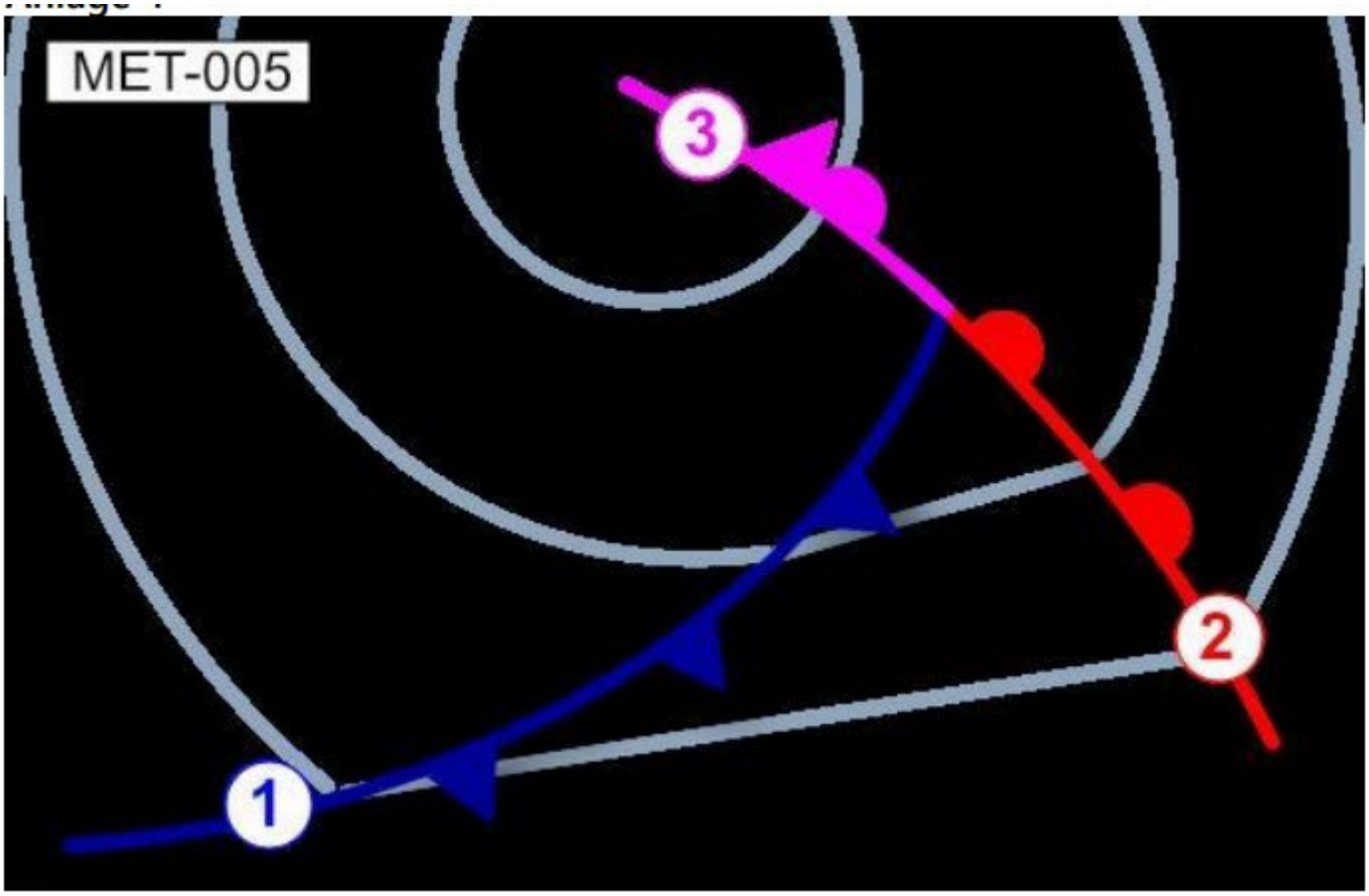
a) Convergence.

b) Concordence.

c) Subsidence.

d) Divergence.

17. The symbol labeled (1) as shown in the picture is a / an... See figure (MET-005)



a) Front aloft
b) Cold front
c) Occlusion
d) Warm front

18. In which situation is radio mandatory zone (RMZ) entry allowed without establishing radio contact?

a) There are other aircraft in the aerodrome circuit
b) It is the aerodrome of departure
c) It is the destination aerodrome
d) Approval has been granted before

19. What is referred to as torsion-stiffed leading edge?

a) The part of the main cross-beam to support torsion forces

b) Special shape of the leading edge

c) The point where the torsion moment on a wing begins to decrease

d) Both-side planked leading edge (from edge to cross-beam) to support torsion forces

20. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?

a) Low pressure is created above, higher pressure below the profile

b) Pressure above remains unchanged, higher pressure is created below the profile

c) High pressure is created above, lower pressure below the profile

d) Pressure below remains unchanged, lower pressure is created above the profile

21. What distance can be covered during a glide in a glider plane with glide ratio 1/30 from a height of 1500 m? (Neglect wind and thermal effects)

a) 30 km

b) 45 NM

c) 45 km

d) 81 NM

22. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH and CH?

a) TC: 113°. MH: 127°. CH: 129°

b) TC: 137°. MH: 127°. CH: 125°

c) TC: 137°. MH: 139°. CH: 125°

d) TC: 113°. MH: 139°. CH: 129°

23. Unless the aircraft is equipped and certified accordingly...

a) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.

b) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.

c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay

d) Flight into areas of precipitation is prohibited.

24. What is the correct frequency for an initial distress message?

a) Radar frequency
b) Current frequency
c) FIS frequency
d) Emergency frequency

25. The "spread" is defined as...

a) Difference between actual temperature and dew point.
b) Difference between dew point and condensation point.
c) Relation of actual to maximum possible humidity of air
d) Maximum amount of water vapour that can be contained in air.

26. A boundary between a cold polar air mass and a warm subtropical air mass showing no horizontal displacement is called...

a) Cold front
b) Warm front
c) Stationary front
d) Occluded front

27. What phenomenon is referred to as "blue thermals"?

a) Thermals with less than 4/8 Cu coverage
b) Descending air between Cumulus clouds
c) Turbulence in the vicinity of Cumulonimbus clouds
d) Thermals without formation of Cu clouds

28. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?

a) The centre of pressure moves aft
b) The centre of pressure moves forward
c) The stagnation point moves down
d) The stagnation point remains constant

29. A distance of 7.5 cm on an aeronautical chart represents a distance of 60.745 NM in reality. What is the chart scale?

a) 1 : 500000
b) 1 : 1500000
c) 1 : 1000000
d) 1 : 150000

30. How can dangerous situations be prevented when the sailplane approaches close to a pattern altitude during a cross-country flight?

a) Try to reach cumulus clouds visible at the far horizon and use their thermal updrafts
b) Despite the planned flight, decide for an off-field landing
c) Maintain radio communication up to full stop after off-field landing
d) Search for thermal updrafts on the lee side of a selected landing field

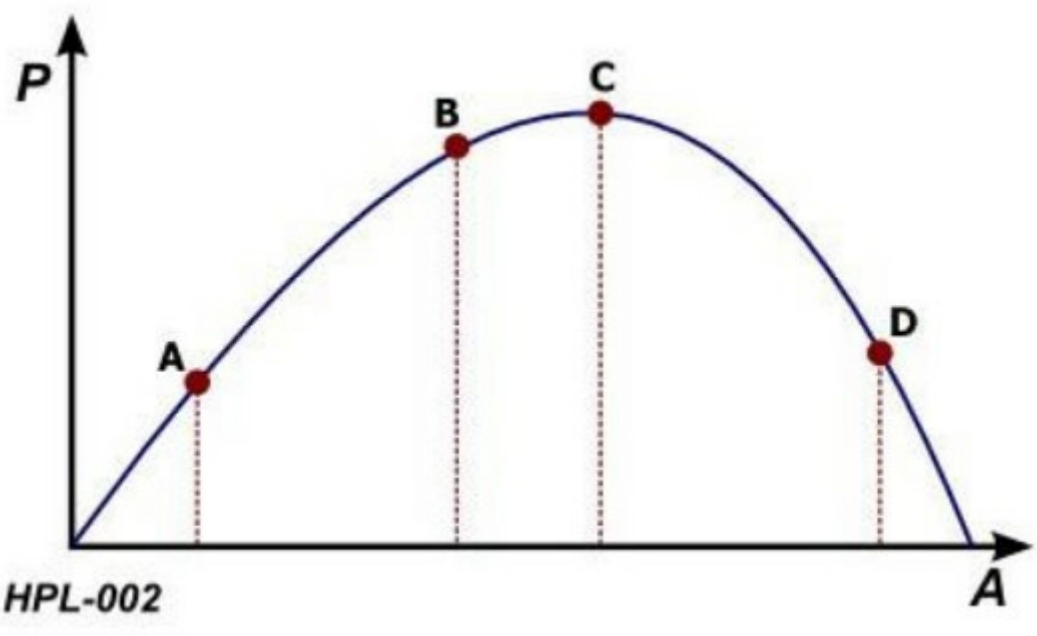
31. The balance arm is the horizontal distance between...

a) The C.G. of a mass and the rear C.G. limit
b) The front C.G. limit and the datum line
c) The front C.G. limit and the rear C.G. limit
d) The C.G. of a mass and the datum line

32. What is an indication for a macho attitude?

a) Risky flight maneuvers to impress spectators on ground
b) Comprehensive risk assessment when faced with unfamiliar situations
c) Quick resignation in complex and critical situations
d) Careful walkaround procedure

33. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress



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

34. What kind of defect results in loss of airworthiness of an aeroplane?

a) Dirty wing leading edge
b) Crack in the cabin hood plastic
c) Scratch on the outer painting
d) Damage to load-bearing parts

35. The circumference of the Earth at the equator is approximately... See figure (NAV-002)

NAV-002

a) 10800 km
b) 12800 km
c) 21600 NM
d) 40000 NM

36. The angle between the true course and the true heading is called...

a) Variation
b) Inclination
c) Deviation
d) WCA

37. Air traffic control service is conducted by which services?

a) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)
b) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
c) APP (approach control service) ACC (area control service) FIS (flight information service)
d) TWR (aerodrome control service) APP (approach control service) ACC (area control service)

38. For TC 040°, TAS 180 kt and wind 350°/30 kt, how should the wind correction be expressed in plain language?

a) 7° left
b) 7° right
c) 3° right
d) 3° left

39. The sandwich structure consists of two...

a) Thick layers and a light core material
b) Thick layers and a heavy core material
c) Thin layers and a light core material
d) Thin layers and a heavy core material

40. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?

a) 1.5 km
b) 8 km
c) 5 km
d) 10 km

41. During flight close to aerodrome in about 250 m AGL you encounter strong descent and go for a safety landing. What speed should be flown when heading towards the airfield?

a) Best glide speed plus additionals for downdrafts and wind
b) Best glide speed
c) Minimum rate of descent speed
d) Maximum manoeuvering speed VA

42. A pilot can contact FIS (flight information service)...

a) By a personal visit
b) Via telephone
c) Via radio communication
d) Via internet

43. The average decrease of blood alcohol level for an adult in one hour is approximately...

a) 0.01 percent

b) 0.03 percent

c) 0.1 percent

d) 0.3 percent

44. A movement around the longitudinal axis is primarily initiated by the...

a) Elevator

b) Ailerons

c) Trim tab

d) Rudder

45. An aircraft is flying with a true airspeed (TAS) of 120 kt and experiences 35 kt tailwind. How much time is needed for a distance of 185 NM?

a) 1 h 12 min

b) 2 h 11 min

c) 0 h 50 min

d) 1 h 32 min

46. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV?

a) VAR: 004° E. DEV: -002°

b) VAR: 004° W. DEV: +002°

c) VAR: 004° E. DEV: +002°

d) VAR: 004° W. DEV: -002°

47. What effect is referred to as "adverse yaw"?

a) Aileron operation results in a yaw to the desired side due to less drag at the down-deflected aileron

b) Rudder operation results in a rolling moment to the opposite side due to more lift generated by the faster moving wing

c) Aileron operation results in a yaw to the opposite side due to more drag at the up-deflected aileron

d) Aileron operation results in a yaw to the opposite side due to more drag at the down-deflected aileron

48. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

a) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS

b) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS

c) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection is +-10°

d) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection is +-10 NM

49. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...

a) 1 : 500000

b) 1 : 1000000

c) 1 : 250000

d) 1 : 2000000

50. The term "runway" is defined as a...

a) Round area on an aerodrome prepared for the landing and take-off of aircraft

b) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters

c) Rectangular area on a land aerodrome prepared for the landing and take-off of aircraft

d) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft

51. What pressure pattern may result from cold-air inflow in high tropospheric layers?

a) Alternating pressure

b) Formation of a large ground low

c) Formation of a high in the upper troposphere

d) Formation of a low in the upper troposphere

52. How are two parallel runways designated?

a) The left runway gets the suffix "L", the right runway remains unchanged
b) The left runway gets the suffix "L", the right runway "R"
c) The left runway remains unchanged, the right runway designator is increased by 1
d) The left runway gets the suffix "-1", the right runway "-2"

53. What is the subject of ICAO Annex 1?

a) Flight crew licensing
b) Air traffic services
c) Rules of the air
d) Operation of aircraft

54. What is the meaning of the yellow arc on the airspeed indicator?

a) Cautious use of flaps or brakes to avoid overload
b) Speed for best glide can be found in this area
c) Flight only in calm weather with no gusts to avoid overload
d) Optimum speed while being towed behind aircraft

55. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

a) 5000 feet
b) 22000 feet
c) 12000 feet
d) 7000 feet

56. Two aeroplanes are flying on crossing tracks. Which one has to divert?

a) Both have to divert to the left
b) The aircraft which flies from left to right has the right of priority
c) Both have to divert to the right
d) The aircraft which flies from right to left has the right of priority

57. What is the percentage of oxygen in the atmosphere at 6000 ft?

a) 78 %

b) 12 %

c) 21 %

d) 18.9 %

58. The term "balance arm" in the context of a mass and balance calculation defines the...

a) Distance of a mass from the centre of gravity

b) Point on the longitudinal axis of an aeroplane or its extension from which the centres of gravity of all masses are referenced

c) Distance from the datum to the centre of gravity of a mass

d) Point through which the force of gravity is said to act on a mass

59. What engines are commonly used with Touring Motor Gliders (TMG)?

a) 2 plate Wankel

b) 2 Cylinder Diesel

c) 4 Cylinder 2 stroke

d) 4-cylinder 4-stroke

60. What is the minimum flight visibility in airspace "E" for an aircraft operating under VFR at FL75?

a) 8000 m

b) 1500 m

c) 3000 m

d) 5000 m

61. Which phrase is to be used when a pilot wants the tower to know that he is ready for take-off?

a) Ready for departure

b) Request take-off

c) Ready for start-up

d) Ready

62. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory

a) 1, 2, 3

b) 2, 4

c) 1

d) 1, 2, 3, 4

63. An aircraft must be loaded and operated in such a way that the centre of gravity (CG) stays within the approved limits during all phases of flight. This is done to ensure...

a) That the aircraft does not exceed the maximum permissible airspeed during a descent

b) Both stability and controllability of the aircraft

c) That the aircraft does not tip over on its tail while it is being loaded.

d) That the aircraft does not stall.

64. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg?

a) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg

b) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg

c) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg

d) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg

65. Airspeed indicator, altimeter and vertical speed indicator all show incorrect indications at the same time. What error can be the cause?

a) Blocking of static pressure lines

b) Leakage in compensation vessel

c) Blocking of pitot tube

d) Failure of the electrical system

66. An off-field landing with tailwind is inevitable. How should the landing be conducted?

a) Approach with reduced speed, expect shorter flare and ground roll distance

b) Normal approach, when reaching landing site, extend spoiler flaps and push down elevator

c) Approach with normal speed, expect longer flare and ground roll distance

d) Approach with increased speed without use of spoiler flaps

67. What is the purpose of "interception lines" in visual navigation?

a) They are used as easily recognizable guidance upon a possible loss of orientation

b) They help to continue the flight when flight visibility drops below VFR minima

c) To mark the next available en-route airport during the flight

d) To visualize the range limitation from the departure aerodrome

68. Information about maximum allowed airspeeds can be found where?

a) Airspeed indicator, cockpit panel and AIP part ENR

b) POH, approach chart, vertical speed indicator

c) POH and posting in briefing room

d) POH, Cockpit panel, airspeed indicator

69. Given: True course: 120°. TAS: 120 kt. Wind: 150°/12 kt. The WCA equals...

a) 3° to the right

b) 6° to the right

c) 6° to the left

d) 3° to the left

70. The centre of gravity (CG) defines...

a) The point on the longitudinal axis or its extension from which the centres of gravity of all masses are referenced

b) The point through which the force of gravity is said to act on a mass

c) The distance from the datum to the position of a mass

d) The product of mass and balance arm

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Response Scheme

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

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