Exam simulation

PPL(H) - Private Pilot Licence (Helicopter) - Principles of Flight (Helicopter)

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STUDENT NAME:	DATE AND TIME:

01. In METAR/TAF coding, what does OVC mean?

a) Freezing rain.
b) Clear sky below 5,000 ft.
c) Variable wind direction.
d) Overcast.

02. Which statement about LTE is correct?

a) It is a type of VOR radial.
b) It improves hover controllability.
c) It is prevented by ignoring wind direction.
d) Loss of tail rotor effectiveness is an uncommanded yaw condition that can occur in susceptible conditions.

03. An aircraft travels 110 NM within 01:25. The ground speed (GS) equals...

a) 86 kt
b) 78 kt
c) 160 km/h
d) 120 km/h

04. In a METAR, heavy rain is designated by the identifier...

a) RA (rain)
b) +RA (heavy rain)
c) SHRA (rain showers)
d) +SHRA (heavy rain showers)

05. What is the correct phrase to begin a blind transmission?

a) Blind
b) Transmitting blind
c) No reception
d) Listen

06. Given: True course from A to B: 250°. Ground distance: 210 NM. TAS: 130 kt. Headwind component: 15 kt. Estimated time of departure (ETD): 0915 UTC. The estimated time of arrival (ETA) is...

a) 1005 UTC.

b) 1105 UTC.

c) 1052 UTC.

d) 1115 UTC.

07. Which statement about empty-field myopia is correct?

a) It can make visual scanning less effective when there are few visual cues.

b) It improves lookout in haze.

c) It is a radio navigation error.

d) It affects only instrument-rated pilots.

08. What is the usual direction of movement of a polar front low?

a) To the northeast during winter, to the southeast during summer

b) Parallel to the warm-sector isobars

c) To the northwest during winter, to the southwest during summer

d) Parallel to the warm front line to the south

09. What should a PPL(H) pilot do before entering a TMZ?

a) Assume it is inactive unless ATC calls first.

b) operate the required transponder mode and code.

c) Switch off the transponder to reduce workload.

d) Ignore it when flying VFR below 1,000 ft AGL.

10. QNH is 1009 hPa and QFE is 992 hPa. What is the approximate aerodrome elevation using 27 ft per hPa?

a) About 260 ft

b) About 710 ft

c) About 17 ft

d) About 460 ft

11. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

a) Critical nervous system

b) Automatical nervous system

c) Autonomic nervous system

d) Compliant nervous system

12. The indication of a magnetic compass deviates from magnetic north direction due to what errors?

a) Gravity and magnetism

b) Deviation, turning and acceleration errors

c) Inclination and declination of the Earth's magnetic field

d) Variation, turning and acceleration errors

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

a) 1, 2, 3, 4

b) 1, 2, 3

c) 2, 4

d) 1

14. VOR radials are defined based on the principle of...

a) Amplitude comparison of two signals.

b) Pulse comparison of two signals.

c) Phase comparison of two signals.

d) Frequency comparison of two signals.

15. The EOBT (estimated off-block time) is specified in the ATS flight plan as...

a) Coordinated Universal Time (UTC).

b) Local Mean Time (LMT).

c) Standard Time (ST).

d) Central European Time (CET).

16. What phrase is used by a pilot if a transmission is to be answered with "no"?

a) Finish
b) No
c) Not
d) Negative

17. Why is wind component important for a PPL(H) flight?

a) It is relevant only to airline transport operations.
b) It can be ignored when the flight remains local.
c) It affects groundspeed and performance margins.
d) It is replaced by passenger preference.

18. What is the correct way of acknowledging the instruction "Call Hamburg Tower on 121.275"?

a) 121.275
b) Call 121.275
c) Call tower
d) Call tower on 121.275

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

a) To mark the next available en-route airport during the flight
b) They are used as easily recognizable guidance upon a possible loss of orientation
c) They help to continue the flight when flight visibility drops below VFR minima
d) To visualize the range limitation from the departure aerodrome

20. Which action best supports safe management of freezing level?

a) Delay the decision until after take-off.
b) Use the item only if requested by passengers.
c) Compare planned altitude with freezing level and cloud.
d) Ignore it when the helicopter has sufficient fuel.

21. The rotational axis of the Earth runs through the...

a) Magnetic north pole and on the magnetic south pole.
b) Geographic North Pole and on the geographic South Pole.
c) Geographic North Pole and on the magnetic south pole.
d) Magnetic north pole and on the geographic South Pole.

22. An aircraft is flying at FL 75 with an outside air temperature (OAT) of -9°C. The QNH altitude is 6500 ft. The true altitude equals...

a) 6750 ft.
b) 6500 ft.
c) 6250 ft.
d) 7000 ft.

23. What should a PPL(H) pilot do when operating close to a RMZ?

a) establish or maintain the required radio communication.
b) Assume it is inactive unless ATC calls first.
c) Switch off the transponder to reduce workload.
d) Ignore it when flying VFR below 1,000 ft AGL.

24. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?

a) Strong pressure gradients resulting in strong prevailing wind
b) Strong pressure gradients resulting in low prevailing wind
c) Low pressure gradients resulting in strong prevailing wind
d) Low pressure gradients resulting in low prevailing wind

25. Which runway designators are correct for 2 parallel runways?

a) "06L" and "06R"
b) "24" and "25"
c) "26" and "26R"
d) "18" and "18-2"

26. Which statement about lookout technique is correct?

a) It is best performed by staring at one point.
b) It should use systematic scanning and attention to likely conflict areas.
c) It is unnecessary in controlled airspace.
d) It can be replaced by radio monitoring only.

27. Basic empty mass is 720 kg, occupants are 80 kg and 65 kg, usable fuel for departure is 35 kg and MTOM is 920 kg. Is the mass within limits?

a) Yes, because fuel is not included in take-off mass.
b) No, because passenger mass is never included in take-off mass.
c) Yes, the calculated take-off mass is within the limit.
d) The result cannot be assessed because empty mass is irrelevant.

28. What is the purpose of the vertical stabilizer?

a) Adjustment of longitudinal stability
b) Compensation of tail rotor stability
c) Improvement of directional stability
d) Reduction of manoeuvre stability

29. Which statement about total pressure is correct?

a) It is always equal to QNH.
b) It is measured in the fuel tank.
c) It is sensed by the pitot tube when exposed to the airflow.
d) It is the pressure in the hydraulic accumulator only.

30. True course is 315° and magnetic variation is 10° W. What is the magnetic course?

a) 305°
b) 325°
c) 335°
d) 315°

31. Which action best supports safe management of temperature-dew point spread?

a) Delay the decision until after take-off.

b) Use the item only if requested by passengers.

c) Monitor small spreads, especially near evening or morning.

d) Ignore it when the helicopter has sufficient fuel.

32. A helicopter burns 45 l/h. Planned flight time is 30 minutes and required reserve is 15 l. What minimum fuel should be planned?

a) 38 l

b) 23 l

c) 30 l

d) 46 l

33. Which statement about a Certificate of Registration is correct?

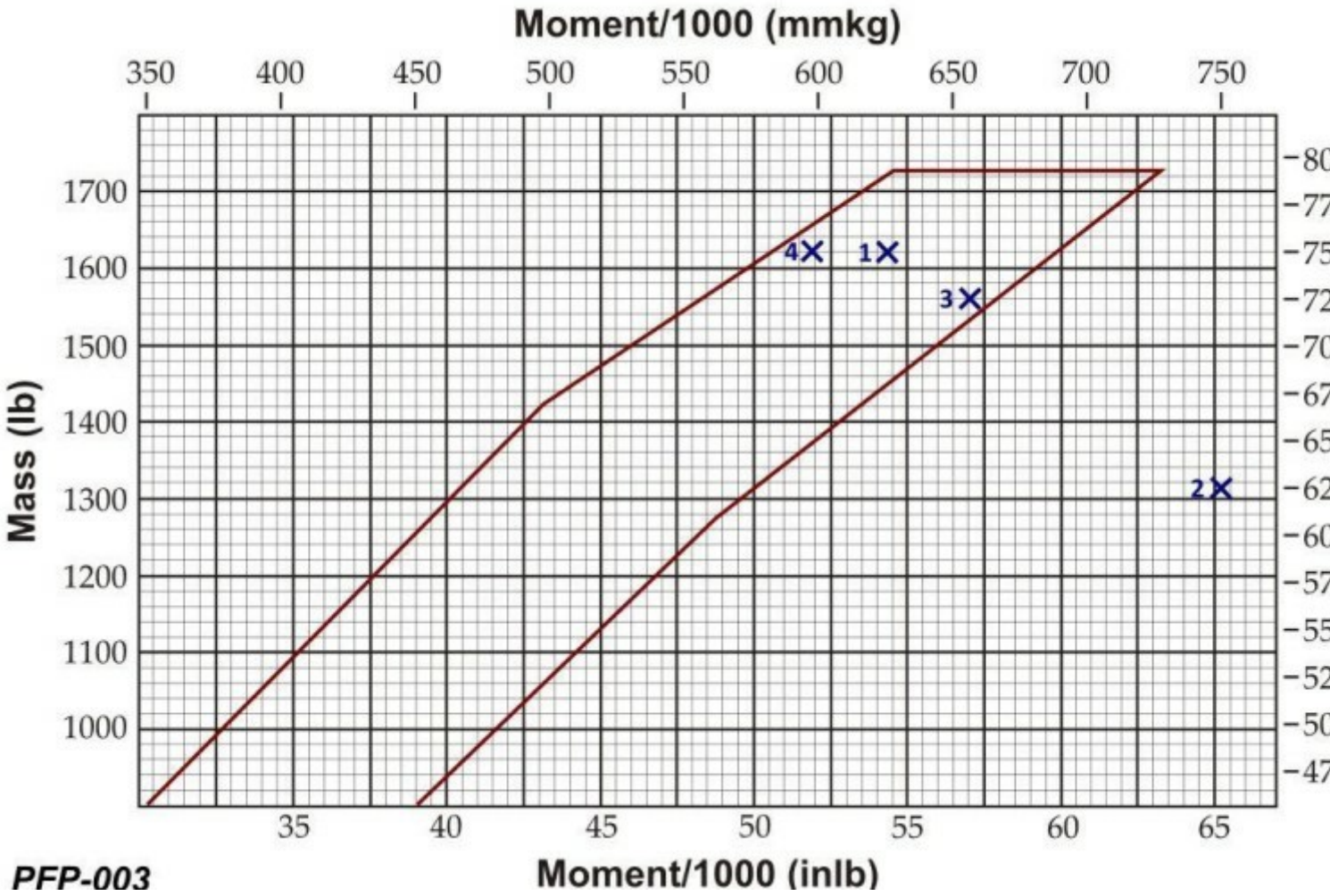
a) It identifies the State and registration of the aircraft.

b) It proves that all maintenance tasks are complete.

c) It is the pilot's medical certificate.

d) It authorises a pilot to carry passengers.

34. The calculated take-off mass is 750 kg and the total moment is 625 000 kg mm (equivalent to 625 Which numbered cross represents this loading? Use figure (PFP-003); its metric horizontal scale is m divided by 1 000.



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

35. Moderate to severe turbulence has to be expected...

a) Below thick cloud layers on the windward side of a mountain range.
b) Overhead unbroken cloud layers.
c) With the appearance of extended low stratus clouds (high fog)
d) On the lee side of a mountain range when rotor clouds are present.

36. What is meant by "isothermal layer"?

a) An atmospheric layer where temperature increases with increasing height
b) A boundary area between two other layers within the atmosphere
c) An atmospheric layer with constant temperature with increasing height
d) An atmospheric layer where temperature decreases with increasing height

37. Why is mountain wave important for a PPL(H) flight?

a) It can produce severe turbulence and downdrafts downwind of terrain.
b) It is relevant only to airline transport operations.
c) It can be ignored when the flight remains local.
d) It is replaced by passenger preference.

38. The total weight of an aircraft is acting vertically through the...

a) Centre of gravity.
b) Centre of pressure.
c) Neutral point.
d) Stagnation point.

39. Which part of the visual system is responsible for colour vision?

a) Cones
b) Rods
c) Macula
d) Blind spot

40. Which statement about carbon monoxide is correct?

a) It has a strong warning smell in all cases.
b) It improves night vision.
c) It binds strongly to haemoglobin and reduces oxygen transport.
d) It is removed by switching on cabin heat.

41. For what approximate time period can the short-time memory store information?

a) 10 to 20 seconds
b) 30 to 40 seconds
c) 3 to 7 seconds
d) 35 to 50 seconds

42. Why is task saturation important for a PPL(H) flight?

a) It can lead to missed information and procedural errors.
b) It is relevant only to airline transport operations.
c) It can be ignored when the flight remains local.
d) It is replaced by passenger preference.

43. Which characteristic is important when choosing sunglasses used by pilots?

a) Curved sidepiece
b) Unbreakable
c) No UV filter
d) Non-polarised

44. How many satellites are necessary for a precise and verified three-dimensional determination of the position?

a) Five
b) Four
c) Three
d) Two

45. Which statement about coning is correct?

a) It is a radio navigation procedure.
b) It is the upward bending of rotor blades due to lift and centrifugal force balance.
c) It is caused by altimeter error.
d) It is the same as tail rotor drift.

46. Why is pre-take-off briefing important for a PPL(H) flight?

a) It prepares the pilot for abnormal actions and escape routes.

b) It is relevant only to airline transport operations.

c) It can be ignored when the flight remains local.

d) It is replaced by passenger preference.

47. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

a) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off

b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off

c) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off

d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots

48. An aircraft is flying with a true airspeed (TAS) of 180 kt and a headwind component of 25 kt for 2 hours and 25 minutes. The distance flown equals...

a) 375 NM.

b) 202 NM.

c) 435 NM.

d) 693 NM.

49. Which statement about an engine failure in cruise is correct?

a) Enter autorotation and follow the flight manual emergency procedure.

b) Increase collective to maintain altitude indefinitely.

c) Switch off the rotor brake.

d) Ignore rotor RPM until landing.

50. Which statement about track is correct?

a) It is the path of the aircraft over the ground.

b) It is always equal to heading.

c) It is the same as indicated airspeed.

d) It is a pressure setting.

51. Why is fuel drain sampling important for a PPL(H) flight?

a) It is relevant only to airline transport operations.
b) It can reveal water, sediment or wrong fuel before engine start.
c) It can be ignored when the flight remains local.
d) It is replaced by passenger preference.

52. Which statement about the collective lever is correct?

a) It changes only tail rotor pitch.
b) It controls the altimeter subscale.
c) It selects the fuel tank vent.
d) It changes the pitch of all main rotor blades collectively.

53. Given: True course: 255°. TAS: 100 kt. Wind: 200°/10 kt. The true heading equals...

a) 250°
b) 265°
c) 275°.
d) 245°.

54. Why is autorotative region important for a PPL(H) flight?

a) It is relevant only to airline transport operations.
b) It can be ignored when the flight remains local.
c) It helps drive the rotor during autorotation.
d) It is replaced by passenger preference.

55. What needs to be observed in conjunction with a temporary loss of tail rotor efficiency in a stationary hover?

a) Vortex ring state of the tail rotor
b) Rotating movement in the main rotor direction
c) Loss of the main rotor thrust
d) Mechanical blockage of the control

56. Temperatures will be given by meteorological aviation services in Europe in which unit?

a) Degrees Fahrenheit
b) Gpdam
c) Degrees Centigrade (° C)
d) Kelvin

57. Two aircraft of the same type, same gross weight and same flap configuration fly with different speeds and altitude. Which aircraft will cause more wake turbulence?

a) The aircraft flying at a lower altitude
b) The aircraft flying at a higher altitude
c) The aircraft flying at lower speed.
d) The aircraft flying at higher speed.

58. What is the period of validity of a private pilot licence (PPL)?

a) Unlimited
b) 48 months
c) 24 months
d) 60 months

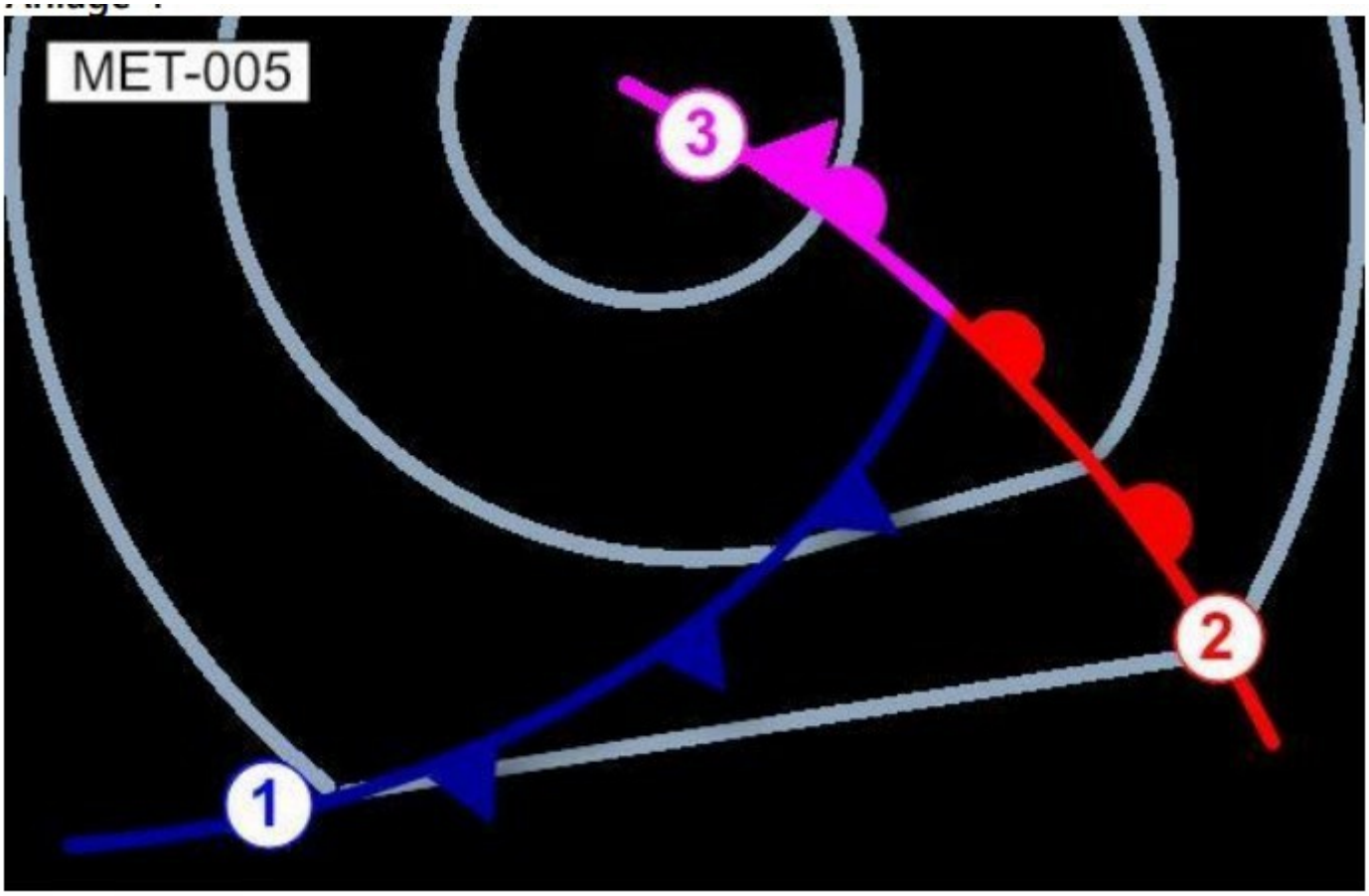
59. Why is driven region of the rotor important for a PPL(H) flight?

a) It consumes energy to produce lift.
b) It is relevant only to airline transport operations.
c) It can be ignored when the flight remains local.
d) It is replaced by passenger preference.

60. Which answer is correct with regard to separation in airspace "E"?

a) IFR traffic is separated only from VFR traffic
b) VFR traffic is separated only from IFR traffic
c) VFR traffic is separated from VFR and IFR traffic
d) VFR traffic is not separated from any other traffic

61. The symbol labeled (3) as shown in the picture is a / an... Use figure (MET-005)



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

62. Surface temperature is 16°C and dew point is 8°C. Using the common rule of thumb, what is the approximate convective cloud base?

a) About 2400 ft AGL
b) About 4200 ft AGL
c) About 3200 ft AGL
d) About 800 ft AGL

63. Baggage and cargo must be properly stowed and fastened, otherwise a shift of the cargo may cause...

a) Structural damage, angle of attack stability, velocity stability.
b) Uncontrollable attitudes, structural damage, risk of injuries.
c) Calculable instability if the CG is shifting by less than 10 %.
d) Continuous attitudes which can be corrected by the pilot using the flight controls.

64. What types of airflow can be observed around a rotor blade aerofoil?

a) Laminar airflow on the entire upper surface
b) Laminar airflow at the leading edge, turbulent airflow further back
c) Turbulent airflow at the leading edge, laminar airflow further back
d) Turbulent airflow on the entire upper surface

65. Which action best supports safe management of convective SIGMET information?

a) Delay the decision until after take-off.
b) Avoid affected areas by a safe margin.
c) Use the item only if requested by passengers.
d) Ignore it when the helicopter has sufficient fuel.

66. Which action best supports safe management of passenger mass accuracy?

a) Use realistic masses and remain within approved limits.
b) Delay the decision until after take-off.
c) Use the item only if requested by passengers.
d) Ignore it when the helicopter has sufficient fuel.

67. What should be considered regarding ice formation during flight?

a) An increase in mass and drag and a significant lift reduction
b) An increase in both drag and lift coefficient due to a mass increase
c) An increase in mass and a decrease in drag
d) An increase in mass and a reduced rate of descent

68. True course is 350° and magnetic variation is 5° W. What is the magnetic course?

a) 345°

b) 005°

c) 175°

d) 355°

69. Which statement is correct with regard to the term "taxi holding point"?

a) A taxi holding point is an area where the aircraft must stop unless further permission to proceed is given

b) A taxi holding point is only to be observed for IFR traffic if instrument weather conditions are prevailing

c) A taxi holding point is the point at which the aircraft must stop unless further permission to proceed is given

d) A taxi holding point is designed to indicate the beginning of the safety area and may be crossed when a taxi clearance is given

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70. What is the distance from VOR Brünkendorf (BKD) (53°02'N, 011°33'E) to Pritzwalk (EDBU) (53°11'N, 012°11'E)? Use figure (NAV-031)



a) 24 km
b) 42 NM
c) 24 NM
d) 42 km

Exam simulation

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Response Scheme

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

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

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