

# Exam simulation

EASA Drone Quiz - Meteorology



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STUDENT NAME:

DATE AND TIME:

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**01. Before each flight, checking the UAV's balance/CG is:**

- a) Unnecessary for all multirotors
- b) Recommended/required when configuration changes are possible
- c) Replaced by GPS calibration
- d) Done only annually

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**02. The '1:1 rule' indicates:**

- a) Distance equals battery voltage
- b) Keep horizontal distance from people at least equal to height above them
- c) No relation to height
- d) Height must be double the distance

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**03. A good pre?flight checklist should include:**

- a) Battery/prop integrity, compass/IMU status, home point, control link, weather
- b) Camera ISO value only
- c) SD card free space only
- d) Aesthetic inspection

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**04. A good pre?flight checklist should include:**

- a) SD card free space only
- b) Camera ISO value only
- c) Aesthetic inspection
- d) Battery/prop integrity, compass/IMU status, home point, control link, weather

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**05. Which of the following statements is correct?**

- a) Longer battery life
- b) Stronger GPS signal in fog
- c) Reduced visibility: risk of losing VLOS and degraded sensors ? unsafe
- d) Better radio link in humid air

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## 06. Which of the following statements is correct?

- a) When a moving mass of dry air comes into contact with a ground hot
- b) When a moving mass of moist air comes into contact with a ground cold
- c) When a moving mass of dry air comes into contact with a ground cold
- d) When a mass of moist, non-moving air comes into contact with a cold ground

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## 07. A good pre?flight checklist should include:

- a) Aesthetic inspection
- b) Battery/prop integrity, compass/IMU status, home point, control link, weather
- c) SD card free space only
- d) Camera ISO value only

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## 08. A good pre?flight checklist should include:

- a) Camera ISO value only
- b) Aesthetic inspection
- c) SD card free space only
- d) Battery/prop integrity, compass/IMU status, home point, control link, weather

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## 09. A VTOL UAV:

- a) Is only a balloon
- b) Can take off/land vertically and (if convertible) cruise like a fixed?wing
- c) Cannot land vertically
- d) Requires a runway always

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## 10. Maintaining VLOS with awareness of surrounding airspace and separations is:

- a) Essential situational awareness for safe UAS operations
- b) Handled entirely by ATC
- c) Illegal in rural areas
- d) Optional if RTH works

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## 11. Which of the following statements is correct?

- a) No need to organize anything in advance
- b) Explicitly ask the observer for permission to participate in advance
- c) Position the observer nearby to monitor the UAS
- d) Questioning the observer on I.M.S.A.F.E. before the flight

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## 12. A good pre?flight checklist should include:

- a) Battery/prop integrity, compass/IMU status, home point, control link, weather
- b) SD card free space only
- c) Aesthetic inspection
- d) Camera ISO value only

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## 13. A multirotor (multi?engine) platform is characterised by:

- a) Fixed wing surfaces as primary lift
- b) The use of a single large rotor
- c) Absence of yaw control
- d) Redundancy of lift sources (multiple rotors) for control and stability

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## 14. Which of the following statements is correct?

- a) Horizontal motions
- b) A general cooling of the air
- c) Cumulonimbus
- d) Large-diameter, short-pitch propellers

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## 15. The remote pilot:

- a) Is responsible for the flight and compliance with limitations
- b) Has no legal role
- c) Is only a photographer
- d) Is replaced by GPS

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## 16. Are wind gusts dangerous for a UAV?

- a) Only above 500 m AGL
- b) No: flight controller cancels all gusts
- c) Only for fixed-wing, not multirotors
- d) Yes: sudden changes in wind cause instability and high loads

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## 17. A good pre-flight checklist should include:

- a) Aesthetic inspection
- b) Battery/prop integrity, compass/IMU status, home point, control link, weather
- c) SD card free space only
- d) Camera ISO value only

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## 18. Spraying/biological control missions with UAVs are generally:

- a) Banned worldwide
- b) Specialised operations requiring specific authorisation/risk assessment
- c) Freely allowed in Open A1
- d) Always allowed in urban areas

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## 19. Which of the following statements is correct?

- a) The economic performance of the UAS
- b) The trim, aerodynamics, weight and fuel consumption of the UAS
- c) Yes, if you notice that your UAS has, for example, superior resistance to the wind
- d) Yes, provided it is authorized by CAA

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## 20. Is the centre of gravity (CG) important for UAV stability?

- a) No, flight controller negates its effect
- b) Only for fixed-wing, not multirotors
- c) Only with special authorisation
- d) Yes, CG position is critical for stability and control

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## 21. Which of the following statements is correct?

- a) It has a relative humidity of 33%
- b) It has a relative humidity of 50%
- c) Generic point, arbitrarily decided by the manufacturer in which the payloads
- d) Point where the diagonals that ideally join the pairs of opposed rotors

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## 22. A good pre?flight checklist should include:

- a) Aesthetic inspection
- b) SD card free space only
- c) Camera ISO value only
- d) Battery/prop integrity, compass/IMU status, home point, control link, weather

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## 23. EASA Open subcategories A1/A2/A3 are for:

- a) Low?risk operations under defined limits, without prior operational authorisation
- b) Carriage of dangerous goods
- c) Operations over assemblies of people
- d) All BVLOS operations

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## 24. Fog mainly reduces:

- a) GNSS satellite count
- b) Air pressure
- c) Horizontal visibility
- d) Magnetic field strength

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## 25. A hybrid VTOL (multirotor + wing) is characterised by:

- a) Vertical take?off/landing and efficient fixed?wing cruise
- b) No control surfaces
- c) Helium lift
- d) Tethered power supply

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## 26. Which of the following statements is correct?

- a) Climb above obstacles
- b) Ignore if GPS OK
- c) Continue using sensors only
- d) Maintain VLOS; land if lost visibility

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## 27. Which of the following statements is correct?

- a) Ocean salinity
- b) Pressure differences drive winds
- c) Moon phases
- d) Earth's magnetic field

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## 28. Battery testing should be done:

- a) By heating to 80°C
- b) With appropriate equipment (voltage, IR, balance) — avoid abuse tests
- c) By deep?discharging every time
- d) By short?circuiting briefly

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## 29. Which of the following is a typical manufacturer operational limit?

- a) Minimum SD card capacity
- b) Maximum wind speed for safe operation
- c) Camera ISO limit
- d) Maximum number of photos per flight

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## 30. Which of the following statements is correct?

- a) Ocean salinity
- b) Pressure differences drive winds
- c) Moon phases
- d) Earth's magnetic field

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## 31. A good pre?flight checklist should include:

- a) SD card free space only
- b) Aesthetic inspection
- c) Camera ISO value only
- d) Battery/prop integrity, compass/IMU status, home point, control link, weather

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## 32. Before flight, check the operational environment for:

- a) Local restaurants
- b) Social media posts
- c) Airspace restrictions, people, obstacles, weather, take?off/landing site
- d) Camera bitrate only

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## 33. In EASA Open A3, operations must be:

- a) No distance limits outdoors
- b) Away from uninvolved people and at least 150 m from residential/commercial/industrial areas
- c) Allowed over crowds with C2 drones
- d) Limited to 30 m from people

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## 34. Which of the following statements is correct?

- a) Pressure differences drive winds
- b) Ocean salinity
- c) Moon phases
- d) Earth's magnetic field

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## 35. Regarding static stability, an aircraft can be:

- a) Stable, neutral, or unstable
- b) Only unstable
- c) Only stable
- d) Only neutrally stable

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**36. Which of the following statements is correct?**

- a) Medium-term
- b) Long-term
- c) Air humidity
- d) Condensation of water vapor in the air

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**37. UAS procedures and rules are:**

- a) Only for manned aviation
- b) Optional tips
- c) Suggestions on social media
- d) Defined by regulations (EASA/national) and associated guidance (AMC/GM), and must be followed

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**38. Which of the following statements is correct?**

- a) Pressure differences drive winds
- b) Earth's magnetic field
- c) Ocean salinity
- d) Moon phases

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**39. In steady hover of a quadcopter:**

- a) Total thrust is less than weight
- b) Total thrust equals weight and net yaw torque is ~zero
- c) Net yaw torque is high
- d) GNSS must be disabled

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**40. Which of the following statements is correct?**

- a) Earth's magnetic field
- b) Ocean salinity
- c) Moon phases
- d) Pressure differences drive winds

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## 41. Which of the following statements is correct?

- a) Pressure differences drive winds
- b) Moon phases
- c) Ocean salinity
- d) Earth's magnetic field

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## 42. Which of the following statements is correct?

- a) 9
- b) Depends on forward speed
- c) Lateral
- d) Horizontal

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## 43. Which of the following statements is correct?

- a) Earth's magnetic field
- b) Moon phases
- c) Ocean salinity
- d) Pressure differences drive winds

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## 44. Which of the following statements is correct?

- a) Suffers gusts of wind like a multicopter
- b) Does not suffer from gusts of wind
- c) Suffers wind gusts more than a multicopter
- d) Suffers less from wind gusts than a multicopter

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## 45. In VLOS, the UAV must be detectable:

- a) Ignore if GPS OK
- b) Climb above obstacles
- c) Continue using sensors only
- d) Maintain VLOS; land if lost visibility

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## 46. A good pre?flight checklist should include:

- a) Aesthetic inspection
- b) SD card free space only
- c) Battery/prop integrity, compass/IMU status, home point, control link, weather
- d) Camera ISO value only

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## 47. A basic operational risk mitigation step is:

- a) Fly higher to be safer
- b) Disable obstacle sensors
- c) Define geo?fence and ground risk buffer around the area of operation
- d) Ignore nearby people

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## 48. If a manned aircraft is seen or heard nearby, the remote pilot should:

- a) Climb to be seen
- b) Continue if you have GNSS
- c) Give way immediately — descend/land safely and increase separation
- d) Flash the strobe at it

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## 49. Which of the following statements is correct?

- a) The Customer
- b) The Observer
- c) The Remote Pilot
- d) The Operator

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## 50. A stall is:

- a) A loss of lift when the wing exceeds its critical angle of attack
- b) Loss of GPS
- c) Battery sag
- d) Engine failure

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## 51. A good pre?flight checklist should include:

- a) Battery/prop integrity, compass/IMU status, home point, control link, weather
- b) Aesthetic inspection
- c) SD card free space only
- d) Camera ISO value only

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## 52. Which of the following statements is correct?

- a) Higher voltage (voltage)
- b) Lower capacity (amperes)
- c) 360
- d) 10

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## 53. Which of the following statements is correct?

- a) Maintain VLOS; land if lost visibility
- b) Climb above obstacles
- c) Continue using sensors only
- d) Ignore if GPS OK

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## 54. Which of the following statements is correct?

- a) Air humidity and optical illusions
- b) Type and cloud cover
- c) Brightness type
- d) All other answers are correct

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## 55. In EASA Open A3, operations must be:

- a) Limited to 30 m from people
- b) Away from uninvolved people and at least 150 m from residential/commercial/industrial areas
- c) No distance limits outdoors
- d) Allowed over crowds with C2 drones

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## 56. Which of the following statements is correct?

- a) Ignore if GPS OK
- b) Maintain VLOS; land if lost visibility
- c) Continue using sensors only
- d) Climb above obstacles

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## 57. What is an anemometer?

- a) An instrument for measuring wind speed (often with a separate vane for direction)
- b) An instrument for measuring the speed of clouds
- c) A sideways airflow
- d) An instrument for measuring humidity

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## 58. Which of the following statements is correct?

- a) 1016 hPa
- b) 1013 hPa
- c) 1026 hPa
- d) 1018 hPa

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## 59. MTOM stands for:

- a) Mean Total Operating Mass
- b) Maximum Take?Off Mass
- c) Minimum Take?Off Margin
- d) Maximum Taxi Operating Mass

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## 60. Which of the following statements is correct?

- a) Transport Aerodrome Facilities
- b) Terminal Aerodrome Forecast
- c) Terminal Aircraft Fault
- d) Tactical Aviators' Forecast

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## 61. Which of the following statements is correct?

- a) Maintain VLOS; land if lost visibility
- b) Ignore if GPS OK
- c) Climb above obstacles
- d) Continue using sensors only

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## 62. Which of the following statements is correct?

- a) By other manned aircraft
- b) By other people on the ground
- c) All the above answers are correct
- d) Yes

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## 63. A fixed-wing UAV sustains flight thanks to:

- a) Magnetic forces
- b) Aerodynamic lift generated by the wing due to forward motion
- c) Rotor downwash
- d) Balloon buoyancy

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## 64. Which of the following statements is correct?

- a) Climb above obstacles
- b) Continue using sensors only
- c) Maintain VLOS; land if lost visibility
- d) Ignore if GPS OK

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## 65. 3?axis control on a fixed-wing is achieved using:

- a) Flaps only
- b) Ailerons (roll), elevator (pitch), rudder (yaw)
- c) Gimbal movements
- d) Throttle only

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**66. Which of the following statements is correct?**

- a) Remains unchanged (altitude is irrelevant)
- b) Increases with low temperatures
- c) It has a speed between 2 and 6 m/s
- d) It is repeated at the same times of day with regularity when the barometric gradient is weak

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**67. A good pre-flight checklist should include:**

- a) Aesthetic inspection
- b) Battery/prop integrity, compass/IMU status, home point, control link, weather
- c) Camera ISO value only
- d) SD card free space only

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**68. Adding payload to a UAV primarily changes:**

- a) ESC calibration only
- b) Rotor diameter
- c) GNSS accuracy only
- d) Mass, CG position, drag and endurance (flight time)

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**69. Air flows at the surface generally from:**

- a) Sea to land only
- b) High pressure towards low pressure
- c) North to south only
- d) Low pressure to high pressure

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**70. Which of the following statements is correct?**

- a) Continue using sensors only
- b) Ignore if GPS OK
- c) Climb above obstacles
- d) Maintain VLOS; land if lost visibility

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## Response Scheme

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

01: **B**

02: **B**

03: **A**

04: **D**

05: **C**

06: **B**

07: **B**

08: **D**

09: **B**

10: **A**

11: **B**

12: **A**

13: **D**

14: **C**

15: **A**

16: **D**

17: **B**

18: **B**

19: **B**

20: **D**

21: **A**

22: **D**

23: **A**

24: **C**

25: **A**

26: **D**

27: **B**

28: **B**

29: **B**

30: **B**

31: **D**

32: **C**

33: **B**

34: **A**

35: **A**

36: **D**

37: **D**

38: **A**

39: **B**

40: **D**

41: **A**

42: **A**

43: **D**

44: **C**

45: **D**

46: **C**

47: **C**

48: **C**

49: **D**

50: **A**

51: **A**

52: **C**

53: **A**

54: **B**

55: **B**

56: **B**

57: **A**

58: **A**

59: **B**

60: **B**

61: **A**

62: **A**

63: **B**

64: **C**

65: **B**

66: **C**

67: **B**

68: **D**

69: **B**

70: **D**

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## Response form

Use this form to mark your answers

01: \_\_\_\_\_

02: \_\_\_\_\_

03: \_\_\_\_\_

04: \_\_\_\_\_

05: \_\_\_\_\_

06: \_\_\_\_\_

07: \_\_\_\_\_

08: \_\_\_\_\_

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67: \_\_\_\_\_

68: \_\_\_\_\_

69: \_\_\_\_\_

70: \_\_\_\_\_