

# Exam simulation

EASA Drone Quiz A2 - Meteorology



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STUDENT NAME:

DATE AND TIME:

## 01. Regarding firmware updates for your drone, what is the safest practice?

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- a) Apply updates, but always perform a safe test flight in an open area before conducting a critical mission
- b) Never update the firmware unless the drone physically crashes
- c) Update the firmware mid-flight via cellular connection
- d) Firmware updates are illegal for C-class drones

## 02. In flight dynamics, what is 'Pitch'?

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- a) Rotation around the vertical axis (turning left or right)
- b) Rotation around the longitudinal axis (banking left or right)
- c) Rotation around the lateral axis (tilting the nose up or down)
- d) The speed at which the drone gains altitude

## 03. For a multirotor to initiate a climb from a stable hover, the total thrust generated by the rotors must be:

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- a) Greater than the total weight of the drone
- b) Exactly equal to the total weight of the drone
- c) Less than the aerodynamic drag
- d) Directed horizontally

## 04. If you are flying a C2 class drone in the A2 subcategory and an assembly of people suddenly forms within your flight area, what must you do?

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- a) Immediately interrupt the operation and safely fly the drone away from the assembly
- b) Activate the low-speed mode and continue flying directly above them
- c) Turn off the drone's motors to force an immediate landing in the crowd
- d) Ignore the crowd if your drone weighs less than 4 kg

## 05. What is a 'Rotor Cloud'?

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- a) A turbulent, rolling cloud found at the lower levels of a mountain wave system, indicating extreme, hazardous turbulence
- b) A cloud created by the spinning rotors of a heavy drone
- c) A harmless, flat cloud found over the ocean
- d) A cloud formed strictly by industrial pollution

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**06. What is the proper way to dispose of a severely swollen or damaged LiPo battery?**

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- a) Throw it in a standard household trash bin
- b) Puncture the outer casing to release the built-up gas before throwing it away
- c) Submerge it in gasoline
- d) Discharge it safely (if possible) and take it to a designated hazardous waste or battery recycling facility

**07. If a pilot incorrectly sets the altimeter to a higher QNH than the actual local pressure, how will this affect the drone's perceived altitude?**

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- a) The altimeter will indicate a higher altitude than the drone's actual height above sea level
- b) The altimeter will show zero at all times
- c) The drone will automatically switch to GPS altitude only
- d) The altimeter will indicate a lower altitude than the actual height

**08. If your drone is attacked by an aggressive bird (e.g., a seagull or eagle), what is the best defensive maneuver?**

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- a) Fly aggressively towards the bird to scare it away
- b) Climb rapidly (birds usually attack from above and are slower to ascend) and then safely navigate away and land
- c) Turn off the motors immediately
- d) Hover in place and make loud noises with the drone's ESCs

**09. Gliders and certain drones can gain altitude without motor power by flying into 'Thermals'. What characterizes a thermal?**

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- a) A horizontal gust of wind
- b) A localized column of warm air rising due to convective solar heating of the ground
- c) A sudden downdraft of cold air
- d) An area of high atmospheric pressure

**10. Which cloud prefix indicates a 'Middle Cloud' (base typically between 6,500 and 20,000 ft)?**

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- a) Cirro-
- b) Nimbo-
- c) Alto- (e.g., Altostratus, Altocumulus)
- d) Strato-

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## 11. When flying near tall structures, what is the 'Wind Shadow' effect?

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- a) A localized area of relatively calm or turbulent air on the downwind (leeward) side of the obstacle; flying in and out of it can cause sudden, unpredictable changes in lift and drift
- b) The shadow cast by the drone blocking the sun
- c) A phenomenon where the wind completely stops the drone from moving
- d) A thermal updraft created by a warm building

## 12. In meteorology and space weather planning, why is a high 'K-index' (Kp 5 or higher) a significant concern for the automated flight modes of a drone?

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- a) It indicates a high probability of heavy snowfall
- b) It means the air density is too high for efficient propeller rotation
- c) It signals a geomagnetic storm that can cause severe GPS positioning drift or sudden loss of satellite lock
- d) It signifies that the wind speed at 120m is exactly 50 knots

## 13. How can a remote pilot recover a multirotor from a Vortex Ring State (VRS)?

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- a) By applying maximum vertical thrust immediately
- b) By pitching forward or sideways to fly out of the turbulent column of downwash into clean air
- c) By turning the motors off and back on again
- d) By rotating the drone 360 degrees on its yaw axis

## 14. In a METAR report, what does the weather code 'SN' indicate?

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- a) Snow
- b) Sandstorm
- c) Squall line
- d) Smoke

## 15. What happens if you fly from an area of high atmospheric pressure into an area of low pressure without updating your barometric altimeter?

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- a) The altimeter will read lower than your true altitude
- b) The drone's motors will automatically shut down
- c) The drone will experience a sudden loss of radio signal
- d) The altimeter will read higher than your true altitude, meaning the drone is physically lower to the ground than the pilot thinks (High to Low, look out below)

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**16. While the maximum distance for flying in VLOS is not fixed by law, what does it primarily depend on in operational practice?**

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- a) The size of the drone, meteorological visibility conditions, and the pilot's ability to distinguish the orientation of the aircraft
- b) Exclusively on the maximum radio signal range declared by the manufacturer
- c) It is always fixed at 500 meters for every type of drone
- d) On the resolution of the camera mounted on the drone

**17. If a METAR reports a temperature of 10 °C and a dew point of 10 °C (T/DP spread is zero), what should a remote pilot expect?**

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- a) Clear, dry air with excellent visibility
- b) A severe thunderstorm
- c) The air is 100% saturated, meaning fog, low clouds, or precipitation are highly likely or already present
- d) High-altitude clear air turbulence

**18. What type of weather is typically associated with the passage of a fast-moving cold front?**

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- a) Days of continuous, light drizzle
- b) Clear, completely cloudless skies
- c) Sudden development of towering cumulus or cumulonimbus clouds, heavy rain showers, squalls, and potential thunderstorms, followed by a drop in temperature
- d) Widespread radiation fog

**19. What is the primary characteristic of the EASA 'Specific' category?**

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- a) It is exclusively for toy drones flown indoors
- b) It allows any drone to carry passengers
- c) It caters to operations that exceed the limitations of the Open category (e.g., BVLOS) and requires a specific risk assessment (SORA) or Standard Scenario authorization
- d) It allows pilots to fly without any age or training requirements

**20. During which stage of a thunderstorm is the iconic 'anvil' top most likely to form?**

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- a) The Cumulus stage
- b) The Mature stage, when the updraft hits the tropopause and spreads out horizontally
- c) The Dissipating stage
- d) Before the cloud even begins to form

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**21. If your Visual Observer (VO) suddenly stops responding to your verbal communications during a flight, what is the safest immediate action?**

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- a) Continue the mission while looking at the telemetry screen
- b) Assume the airspace is clear and speed up
- c) Hover the drone, safely return it to the home point, and land until communication is re-established, as you have lost your secondary safety scan
- d) Fly the drone directly towards the VO to get their attention

**22. Flying a drone low over a densely packed city on a windy day is risky primarily due to:**

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- a) Severe mechanical turbulence and funneling effects caused by the buildings disrupting the wind flow
- b) The heat from the buildings melting the battery
- c) Magnetic interference from streetlights
- d) A total lack of wind between the buildings

**23. What is the difference between an 'involved person' and an 'uninvolved person' in EASA regulations?**

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- a) Involved persons are local police; uninvolved persons are regular citizens
- b) Involved persons are briefed on the operation and safety risks; uninvolved persons are not participating and must be kept at a safe distance
- c) There is no legal difference in the Open category
- d) Uninvolved persons can be flown over if they are wearing hard hats

**24. What is an SORA?**

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- a) Standard Operating Recreational Area
- b) System Override and Recovery Application
- c) Specific Operations Risk Assessment; a methodology used to assess the risks of an operation in the Specific category
- d) Safe Overflight of Restricted Airspace

**25. In fixed-wing UAV aerodynamics, a 'stall' occurs when:**

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- a) The motor runs out of battery power
- b) The critical angle of attack is exceeded, causing a sudden loss of aerodynamic lift
- c) The GPS signal is blocked by terrain
- d) The propeller spins backwards

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## 26. What is the primary danger of 'Wind Shear' to a drone during takeoff or landing?

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- a) It drains the battery by creating a vacuum
- b) It causes the drone's compass to lose north
- c) A sudden loss of airspeed and lift can cause the drone to stall and crash into the ground before the motors can spool up to compensate
- d) It cuts the radio signal from the remote

## 27. Regarding thunderstorms, which statement about lightning is true and highly relevant to drone pilots?

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- a) Lightning can strike the ground miles away from the main cumulonimbus cloud (even outside the rain area), posing a lethal threat to the pilot and the drone
- b) Lightning only strikes directly beneath the darkest part of the cloud
- c) Drones are completely immune to lightning because they have no direct connection to the ground
- d) Lightning only occurs when the temperature is above 20°C

## 28. If you set your altimeter to 'QNE' (1013.25 hPa), what are you measuring?

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- a) True Altitude (Height above mean sea level)
- b) Absolute Altitude (Height above the ground)
- c) Pressure Altitude (Flight Level), used primarily by aircraft cruising at higher altitudes to ensure safe vertical separation
- d) Density Altitude

## 29. How does severe physical or mental fatigue affect a remote pilot?

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- a) It increases the pilot's field of vision
- b) It has no measurable effect on controlling a highly automated drone
- c) It improves fine motor skills on the controller sticks
- d) It degrades decision-making, slows reaction times, and decreases overall situational awareness

## 30. An 'uninvolved person' in a drone operation is:

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- a) The remote pilot operating the controls
- b) Anyone who is not participating in the drone operation and has not been briefed on the safety instructions
- c) The designated visual observer
- d) The client who hired the drone operator

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## 31. Why is it important to calibrate the drone's compass in an open area, away from metal structures or vehicles?

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- a) Metal structures block the Wi-Fi signal required for calibration
- b) The drone needs a clear view of the sun to calibrate
- c) Large metallic objects or electromagnetic fields can distort the earth's local magnetic field, leading to an incorrect calibration and erratic flight behavior
- d) It takes too long to calibrate near buildings

## 32. A balanced multirotor propeller is vital because an unbalanced one will:

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- a) Create high-frequency vibrations that degrade video quality, wear out motor bearings, and confuse the IMU
- b) Cause the drone to fly much faster than its legal limit
- c) Increase the capacity of the LiPo battery
- d) Improve the drone's ability to fly in heavy rain

## 33. In which atmospheric layer is the protective ozone layer primarily located?

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- a) Troposphere
- b) Mesosphere
- c) Stratosphere
- d) Exosphere

## 34. What is the danger of flying a drone in an area with a high 'Kp-index' (e.g., Kp 7 or 8)?

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- a) Severe geomagnetic storms can disrupt the ionosphere, causing significant GPS positioning errors, compass malfunctions, or total loss of satellite lock
- b) The drone's battery will drain twice as fast
- c) It means there is a high probability of a tornado
- d) The remote controller will overheat

## 35. What does a green 'CE' mark on a drone indicate?

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- a) The drone was manufactured in China
- b) The drone is completely waterproof
- c) The drone is exempt from all aviation laws
- d) The manufacturer declares the product complies with the essential health, safety, and environmental protection requirements of the European Economic Area

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**36. In the context of Human Factors, 'confirmation bias' during a pre-flight check refers to:**

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- a) Relying on a co-pilot to confirm all checklist items
- b) The tendency to see what you expect to see, potentially missing obvious faults (e.g., assuming a prop is secure because it usually is)
- c) Confirming the drone's home point via GPS
- d) The flight controller's internal validation process

**37. What does the term 'Absolute Altitude' mean?**

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- a) Altitude above mean sea level (MSL)
- b) Altitude above the standard pressure datum (1013.25 hPa)
- c) The actual vertical distance between the aircraft and the surface of the ground directly below it (Height Above Ground Level - AGL)
- d) The highest altitude the drone is technically capable of reaching

**38. What is the best meteorological definition of a 'Thermal'?**

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- a) A localized area of freezing rain
- b) A horizontal wind caused by mountain peaks
- c) A rising column or mass of warm air caused by the localized, uneven heating of the Earth's surface by the sun
- d) The heat generated by the drone's battery

**39. How does the wind gradient affect a drone descending to land in windy conditions?**

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- a) The drone will experience a sudden increase in wind speed near the ground
- b) As the drone descends into slower air near the ground, its aerodynamic lift may suddenly decrease, requiring the pilot to apply more throttle to prevent a hard landing
- c) The wind gradient will push the drone upwards
- d) It causes the drone's compass to spin

**40. Over-discharging a LiPo battery (e.g., dropping cell voltage below 3.0V) will likely result in:**

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- a) An automatic increase in total battery capacity
- b) A faster charging time for the next cycle
- c) Irreversible chemical damage to the cells, causing puffing, loss of capacity, and potential fire hazards
- d) The battery recalibrating its internal thermometer



**41. When flying in high winds, the battery consumption will:**

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- a) Decrease due to wind cooling
- b) Remain exactly the same as in calm conditions
- c) Stop entirely if the drone enters a glide
- d) Increase significantly as the flight controller draws more power to the motors to maintain stability and position against the wind

**42. What is the proper procedure for long-term storage of a Lithium Polymer (LiPo) battery?**

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- a) Store it fully charged at 100% capacity
- b) Store it at a storage voltage (around 40-60% capacity) in a cool, fireproof location
- c) Discharge it completely to 0% to prevent swelling
- d) Keep it constantly plugged into the charger

**43. When scanning the sky to maintain VLOS, the best visual technique is to:**

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- a) Stare fixedly at the drone without moving your eyes
- b) Use a systematic scanning pattern (e.g., sector by sector) to detect other aircraft and obstacles, resting the eyes briefly on different points
- c) Look strictly at the telemetry screen, relying on peripheral vision for the sky
- d) Scan the sky rapidly without pausing

**44. According to EASA, what is the legal difference between a 'UAS Operator' and a 'Remote Pilot'?**

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- a) The operator flies the drone, while the pilot only monitors the camera
- b) They are exactly the same thing and the terms can be used interchangeably
- c) The UAS Operator is the individual or organization registered and responsible for the drone's maintenance and compliance; the Remote Pilot is the person physically controlling the drone during flight
- d) The UAS Operator is always a commercial company, while the Remote Pilot is always a hobbyist

**45. A 'katabatic wind' is best described as:**

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- a) A warm wind blowing up a mountain slope during the day
- b) A dense, cold wind flowing down a mountain slope or glacier into a valley, typically at night
- c) A horizontal wind caused by the Coriolis effect
- d) A sudden updraft inside a thunderstorm

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**46. Which meteorological tool uses radio waves to determine the location, intensity, and movement of precipitation?**

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- a) Anemometer
- b) Barometer
- c) Weather Radar
- d) Hygrometer

**47. What does 'mAh' stand for on a drone's Lithium Polymer (LiPo) battery?**

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- a) Maximum Aerodynamic Hover
- b) Milliampere-hour, which indicates the battery's energy storage capacity
- c) Motor Ampere Hertz, defining the motor rotation speed
- d) Minimum Altitude Height

**48. Are binoculars permitted to extend the visual line of sight (VLOS) during a drone flight?**

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- a) Yes, provided they have a magnification of 10x or less
- b) No, VLOS must be maintained unaided (except for corrective lenses/glasses)
- c) Yes, but only for the Visual Observer
- d) Only if flying in the Specific category

**49. Which of the following describes an 'involved person'?**

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- a) A person watching the drone from their balcony
- b) A person who is aware of the drone operation's instructions and safety precautions, and has explicitly consented to participate
- c) Any person walking through a public park where you are flying
- d) A driver in a moving vehicle near the flight area

**50. According to the A2 syllabus, what is a key element of 'Flight Planning'?**

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- a) Packing enough food and water for the pilot
- b) Charging the mobile phone to 100%
- c) Evaluating the airspace, ground risk, weather conditions, checking NOTAMs, and defining the operational volume and emergency procedures before leaving home
- d) Choosing the right music for the final video edit

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## 51. When should you perform a firmware update on your drone?

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- a) While the drone is flying
- b) While grounded, ensuring you test the drone in a safe area before any critical or complex missions
- c) Only when the battery is below 10%
- d) Never, firmware updates are illegal

## 52. What does a 'Wind Rose' on a meteorological map or airport chart display?

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- a) The exact location of flowers near the runway
- b) A graphical representation showing the frequency and speed of winds blowing from different directions for a specific location
- c) The temperature gradient of the area
- d) The magnetic deviation of the Earth

## 53. Why is it dangerous to fly a drone behind a large, solid structure like a metal building?

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- a) The building will absorb the drone's battery charge
- b) It blocks both the radio control link (VLOS and telemetry) and the GPS satellite signals, highly increasing the risk of signal loss and a crash
- c) The drone will automatically initiate a landing procedure as soon as it sees a wall
- d) It is not dangerous if the drone has obstacle avoidance sensors

## 54. In a METAR report, what does the weather abbreviation 'BR' stand for?

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- a) Broken clouds
- b) Heavy Rain
- c) Mist (from the French 'Brumes')
- d) Blowing Sand

## 55. In a high-pressure system (Anticyclone), the air is generally experiencing 'Subsidence'. What does this mean for the weather?

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- a) The air is rising rapidly, creating severe thunderstorms
- b) The air is moving horizontally at hurricane speeds
- c) The air is slowly sinking and warming, which inhibits cloud formation and generally leads to clear, stable weather
- d) The air is freezing, causing immediate hail

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## 56. In aviation weather reports, how is a 'Ceiling' defined?

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- a) The maximum altitude a drone can physically reach
- b) The height above the Earth's surface of the lowest layer of clouds reported as 'Broken' (BKN) or 'Overcast' (OVC)
- c) Any cloud layer reported as 'Scattered' (SCT)
- d) The top of a thunderstorm cloud

## 57. What is 'Virga', and why is it a hazard indicator for remote pilots?

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- a) Precipitation that falls from a cloud but evaporates before reaching the ground; it strongly indicates the presence of severe downdrafts and microbursts
- b) A type of high-altitude ice crystal that blocks GPS signals
- c) A layer of dense smog over industrial areas
- d) The trail of condensation left by a high-flying jet

## 58. What is the primary danger of operating a drone near the 'Anvil' of a cumulonimbus cloud?

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- a) Severe turbulence, lightning, and large hail can be thrown out of the anvil and fall miles away from the main storm center
- b) The anvil blocks GPS satellites
- c) It makes the drone invisible to radar
- d) The air is too thin to fly in

## 59. Why is a Katabatic wind often much stronger than an Anabatic wind?

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- a) Because the sun is hotter in the afternoon
- b) Because katabatic winds (cold, dense air draining downslope) are assisted by gravity, making them accelerate and often become quite strong
- c) Because they only happen near the equator
- d) Because they are driven by the Coriolis effect

## 60. Which ambient temperature range is generally the most critical and dangerous for the rapid accumulation of 'Clear Ice' (Glaze) on an aircraft or drone?

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- a) -20 °C to -40 °C
- b) 0 °C to -10 °C, especially when flying through clouds with large supercooled water droplets
- c) +5 °C to +15 °C
- d) Above +20 °C



## 61. What is the 'Tropopause'?

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- a) The layer of the atmosphere where meteors burn up
- b) The boundary between the troposphere and the stratosphere, acting as a lid that traps most weather and moisture below it
- c) The point where the Earth's magnetic field stops
- d) The exact altitude where the air temperature reaches absolute zero

## 62. Why is the 'anvil' (topmost part) of a cumulonimbus cloud dangerous, even if you are miles away from the storm's center?

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- a) It blocks the sun, making it too dark to fly
- b) It creates a vacuum that pulls the drone upwards
- c) Strong upper-level winds can carry severe hail out of the anvil, causing it to fall miles ahead of the main storm and potentially destroying a drone in clear air
- d) It emits a high-frequency noise that disrupts the radio controller

## 63. If you leave your drone outside on a cold morning and a thin layer of frost forms on the propellers, what must you do before flying?

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- a) Fly immediately so the spinning action shakes the frost off
- b) Turn the motors on full throttle while holding the drone down
- c) Ignore it; frost is too thin to affect a drone
- d) Thoroughly clean and dry the propellers before flight; even a thin layer of frost disrupts the airfoil's smooth surface, drastically reducing lift and increasing drag

## 64. What is the primary danger of operating a multirotor drone in freezing rain?

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- a) The rain will wash off the drone's registration number
- b) The motors will spin twice as fast
- c) Supercooled droplets will freeze instantly upon contact with the propellers, rapidly destroying their aerodynamic shape, reducing lift, and likely causing a crash
- d) There is no danger if the drone has an IP54 waterproof rating

## 65. What is the primary purpose of a 'V-n diagram' (Flight Envelope) for an aircraft?

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- a) It graphs the battery voltage drop over flight time
- b) It shows the frequency spectrum of the video transmission
- c) It depicts the safe operational limits mapping airspeed against structural load factor (G-forces)
- d) It outlines the geographical boundaries of restricted airspace

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**66. According to the risk-based approach of EASA, drone operations are divided into which three main categories?**

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- a) Toy, Hobby, Commercial
- b) Light, Medium, Heavy
- c) Open, Specific, Certified
- d) A1, A2, A3

**67. What is the primary difference between Controlled Airspace and Uncontrolled Airspace?**

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- a) In controlled airspace, ATC provides separation services and authorization is usually required to enter; uncontrolled airspace does not have these strict ATC requirements
- b) Uncontrolled airspace is exclusively for military use
- c) Controlled airspace is only indoors
- d) There is no difference for drone pilots; they can fly anywhere

**68. During the 'Dissipating Stage' of a thunderstorm, what air movement dominates?**

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- a) Strong updrafts
- b) Horizontal winds only
- c) Downdrafts, as the rain cools the air and cuts off the storm's supply of warm, moist updrafts
- d) A perfect vacuum

**69. Under the EU drone regulations, what distinguishes a 'Toy' drone from a standard UAS?**

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- a) Toy drones are painted in bright colors
- b) Toy drones comply with the Toy Safety Directive (intended for children under 14) and do not require the operator to register, regardless of whether they have a camera
- c) Toy drones must weigh exactly 249 grams
- d) There is no legal distinction; all drones are treated identically

**70. Adding an asymmetrical payload to one side of the drone will:**

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- a) Improve its cornering speed
- b) Have no effect if the drone has GPS
- c) Shift the Center of Gravity, forcing the motors on that side to work harder, reducing stability and battery life
- d) Make the drone completely waterproof

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## Response Scheme

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

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

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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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