

Exam simulation

EASA Drone License A2, 30 questions on 30 minutes!



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STUDENT NAME:

DATE AND TIME:

01. What does a 'Geo-caging' (or Geo-fencing) feature do?

- a) It builds a physical net around the drone
- b) It cages the battery to prevent swelling
- c) It creates a virtual software boundary based on GPS coordinates that the drone is programmed not to fly beyond
- d) It limits the drone to indoor flights only

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

- 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 metres for every type of drone
- d) On the resolution of the camera mounted on the drone

03. How does 'Frontal Fog' typically form?

- a) When warm rain falls through a layer of colder air near the ground, evaporating and raising the humidity of the cold air to saturation
- b) By the sudden cooling of the ground on a clear night
- c) By wind blowing humid air up a mountain slope
- d) By industrial pollution mixing with snow

04. If you are operating a C2 drone in Open A2, and an uninvolved person unexpectedly walks within your 30 m safety buffer, you should:

- a) Shout at them from a distance while keeping the drone hovering in place
- b) Immediately take action to increase the distance, manoeuvre away safely, or land if necessary
- c) Quickly activate 'low-speed mode' and fly directly over their head
- d) Ignore them as long as the drone is flying higher than 50 metres

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05. Which of these factors is most likely to increase the structural load factor on a fixed-wing UAV?

- a) A steep, high-speed banked turn or pulling out of a steep dive
- b) Flying perfectly straight and level at cruising speed
- c) Descending slowly at 1 m/s
- d) Connecting to a 5G network

06. What is a 'Flight Log' and why is it recommended (or required by company procedures)?

- a) A piece of hardware installed on the drone's camera
- b) A live streaming service to social media
- c) A manual switch to turn off the GPS
- d) A record of flight times, locations, issues, and maintenance to track component lifespan and support incident investigations

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

- 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

08. For standard aviation weather reporting (METAR), at what height above the ground is wind speed and direction officially measured by an anemometer?

- a) 1 metre
- b) 10 metres (approx. 33 feet)
- c) 50 metres
- d) 100 metres

09. If the space weather forecast shows a Kp-index of 6, what is the operational impact?

- a) The air density will be too low to fly
- b) The video transmission will fail entirely
- c) A moderate-to-strong geomagnetic storm is occurring, which can cause significant GPS positioning errors or complete loss of satellite lock
- d) The drone's battery will drain in half the normal time

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10. How does alcohol affect a remote pilot's performance?

- a) It improves multitasking abilities
- b) It impairs judgment, slows reaction times, decreases spatial awareness, and makes the pilot prone to taking dangerous risks
- c) It has no effect on remote piloting because the pilot is not physically inside the aircraft
- d) It enhances night vision

11. What is a 'Rotor Cloud'?

- 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

12. What is the 'Urban Heat Island' effect?

- a) Cities generating their own magnetic fields
- b) The phenomenon where urban areas are significantly warmer than surrounding rural areas due to human activities, concrete/asphalt absorbing heat, and lack of vegetation, creating localized thermals and altered wind patterns
- c) A tropical island located in the middle of a large city
- d) The fog that forms exclusively over skyscrapers

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

- 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

14. When referring to a drone's battery, what does a 'Cell' mean?

- a) An individual electrochemical unit within the battery pack that stores energy, typically with a nominal voltage of 3.7V in a LiPo
- b) The plastic outer casing of the battery
- c) The connector wire that plugs into the drone
- d) A software partition on the SD card

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15. What is the purpose of the 'Ground Risk Buffer'?

- a) To protect the drone's landing gear from hard surfaces
- b) To ensure there is a safe, clear area on the ground around the operational volume where uninvolved persons are excluded, protecting them in case the drone falls or drifts
- c) To establish a Wi-Fi connection with the drone
- d) To measure the softness of the grass for landing

16. If a multirotor drone experiences a total failure of one motor (on a standard 4-motor quadcopter), what is the inevitable result?

- a) The UAS will hover perfectly on three motors
- b) The UAS will glide smoothly to the ground like a fixed-wing aircraft
- c) The UAS will increase altitude to compensate
- d) The UAS will lose aerodynamic balance, likely flipping and crashing, as a quadcopter lacks the redundancy to fly on three motors

17. If you are flying and notice the video transmission on your screen is lagging heavily and breaking up, what should you do?

- a) Switch to a higher video resolution
- b) Immediately look up to locate the drone via direct Visual Line of Sight (VLOS), bring it closer to improve signal strength, or land safely if the control link is also at risk
- c) Turn off the remote controller
- d) Fly the drone behind a building to reset the antennas

18. When assessing the weather for a drone flight, the remote pilot's responsibility is to:

- a) Check the weather once in the morning and ignore it thereafter
- b) Only check the weather if flying above 100 metres
- c) Obtain forecasts (METAR/TAF/Apps) during pre-flight planning and continuously monitor the real-time weather conditions visually during the entire operation
- d) Rely entirely on the drone's internal barometer to warn them of bad weather

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

- 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

20. The visual presence of 'Lenticular Clouds' (lens-shaped clouds) over a mountain range is a strong indicator of:

- a) Mountain waves and severe to extreme clear-air turbulence
- b) A very calm, stable air mass with perfect flying conditions
- c) An impending drought
- d) High humidity without any wind

21. If you are flying a multicopter and experience a sudden, strong updraft from a thermal, what is the expected initial reaction of the drone?

- a) The drone will pitch forward
- b) The drone will suddenly drop towards the ground
- c) The drone will rapidly gain altitude; the flight controller will then reduce motor RPM to compensate and bring it back down to its target altitude
- d) The drone will turn off completely

22. In meteorology, 'Convection' refers to:

- a) The horizontal movement of air across the surface
- b) The freezing of supercooled water droplets in a cloud
- c) The deflection of wind by the Earth's rotation
- d) The vertical transport of heat in the atmosphere, often causing warm, less dense air to rise and form thermals or cumulus clouds

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23. What is the function of the Flight Controller in a drone?

- a) It regulates the temperature of the battery
- b) It acts as the 'brain' of the drone, processing inputs from the receiver and sensors (IMU, GPS) to send appropriate commands to the ESCs and motors to maintain stabilized flight
- c) It compresses the video files for storage
- d) It connects the drone's Wi-Fi to the internet

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

- 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

25. If you are flying a C2 drone in a city environment under the A2 subcategory, why is the 'Multipath Effect' a significant concern?

- a) It causes the video feed to display two images
- b) It drains the remote controller's battery
- c) GNSS/GPS signals bounce off tall buildings, reaching the drone at different times, which can cause erratic position holding, fly-aways, or sudden switches to ATTI mode
- d) It magnifies the noise of the propellers

26. What is 'Empty-Field Myopia' in the context of maintaining Visual Line of Sight (VLOS)?

- a) A condition where the pilot's screen is too bright
- b) A visual illusion where the eyes have no specific object to focus on in a featureless sky, causing them to relax and focus at a short distance, making it hard to spot the drone or other aircraft
- c) The inability to see the color red in daylight
- d) A software error that miscalculates the distance to the home point

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27. If the drone enters ATTI mode (GPS loss) while flying near obstacles, what is the correct manoeuvre to avoid collisions?

- a) Turn off the motors immediately to avoid major damage
- b) Activate the Return to Home (RTH) button
- c) Manually control the horizontal position by compensating for wind drift with the sticks while maintaining a safe altitude
- d) Increase maximum speed to reacquire the signal

28. Which of these is considered a 'Hazardous Attitude' related to 'Resignation'?

- a) Always following the rules strictly
- b) Believing that you have no control over the situation and whatever happens is bound to happen (e.g., 'What's the use? It's going to crash anyway')
- c) Thinking you are the best pilot in the world
- d) Reacting too quickly to emergencies without thinking

29. Which of the following describes a Cumulonimbus (Cb) cloud?

- a) A thin, wispy high-altitude cloud made of ice crystals
- b) A low, flat, grey cloud layer that produces light drizzle
- c) A massive, towering convective cloud associated with severe thunderstorms, heavy rain, lightning, hail, and extreme turbulence
- d) A small, fluffy 'fair weather' cloud

30. How is wind direction typically reported in aviation weather forecasts (such as METAR or TAF)?

- a) In degrees True (from True North), indicating the direction the wind is blowing FROM
- b) In degrees Magnetic, indicating the direction the wind is blowing TOWARDS
- c) Using only cardinal points (N, S, E, W)
- d) As a percentage of the Earth's rotation

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Response Scheme

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

01: **C** _____

02: **A** _____

03: **A** _____

04: **B** _____

05: **A** _____

06: **D** _____

07: **B** _____

08: **B** _____

09: **C** _____

10: **B** _____

11: **A** _____

12: **B** _____

13: **B** _____

14: **A** _____

15: **B** _____

16: **D** _____

17: **B** _____

18: **C** _____

19: **B** _____

20: **A** _____

21: **C** _____

22: **D** _____

23: **B** _____

24: **C** _____

25: **C** _____

26: **B** _____

27: **C** _____

28: **B** _____

29: **C** _____

30: **A** _____

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Response form

Use this form to mark your answers

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