

Exam simulation

EASA Drone Quiz A2, 30 questions on 30 minutes!



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STUDENT NAME:

DATE AND TIME:

01. What is the EASA regulation regarding the consumption of alcohol or psychoactive substances before flying a drone?

- a) The legal blood alcohol limit is identical to driving a car in your local country
- b) Over-the-counter medications never impact piloting abilities
- c) Remote pilots must not perform their duties if under the influence of psychoactive substances, alcohol, or medications that impair reflexes
- d) Alcohol consumption is only permitted if flying in the A3 subcategory

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

- 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

03. What does a 4S LiPo battery designation mean?

- a) It contains 4 cells connected in series, adding their voltages together
- b) It will last for exactly 4 hours of flight time
- c) It is equipped with 4 separate temperature sensors
- d) It contains 4 cells connected in parallel

04. In Human Factors, what defines a pilot's 'Situational Awareness'?

- a) The ability to manually solder broken electronics in the field
- b) The accurate perception of the flight environment, understanding its meaning, and projecting its status into the near future
- c) Knowing the exact serial number of the drone's motors
- d) The process of memorizing the user manual

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05. When wind flows through a narrow mountain valley or a dense group of tall buildings, its speed typically increases. What is this called?

- a) The Coriolis Effect
- b) The Thermal Inversion Effect
- c) The Funneling (or Venturi) Effect
- d) The Ground Effect

06. What is an 'anabatic wind'?

- a) A cold wind blowing down a mountain at night
- b) A warm wind blowing upwards along a sun-heated mountain slope during the day
- c) A wind that blows strictly over the ocean
- d) A violent crosswind on a runway

07. What is a 'Jet Stream'?

- a) The exhaust trail left by a jet engine
- b) A warm ocean current flowing from the tropics
- c) A narrow band of very strong, high-altitude winds (often exceeding 100 knots) flowing generally from west to east near the tropopause
- d) A sudden burst of wind near a mountain valley

08. When flying a drone, what is 'Latency' in the video feed?

- a) The brightness of the screen
- b) The time delay between the camera capturing the image and the image appearing on the pilot's screen
- c) The resolution of the recorded video (e.g., 4K vs 1080p)
- d) The physical angle of the camera gimbal

09. If you read a METAR and see the cloud group 'OVC045', what does this mean?

- a) Overcast sky with the cloud base at 4,500 feet Above Ground Level (AGL)
- b) Scattered clouds at 450 feet
- c) Overcast clouds moving at 45 knots
- d) Visibility is limited to 45 meters

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10. What is the primary characteristic of an 'Unstable' atmosphere?

- a) Thick fog lasting all day
- b) Continuous, smooth wind from one direction
- c) Air parcels forced upwards continue to rise because they remain warmer than the surrounding air, leading to vertical cloud development (cumulus) and turbulence
- d) No clouds ever form

11. What should you do with a LiPo battery immediately after completing a long, heavy flight?

- a) Put it on the charger immediately to top it back up to 100%
- b) Allow the battery to cool down to room temperature before charging it, as charging a hot LiPo can cause damage or a fire
- c) Place it in a freezer to rapidly lower its internal resistance
- d) Puncture it slightly to release the built-up heat

12. In the Northern Hemisphere, how does the wind flow around a High-Pressure system (Anticyclone) at the surface?

- a) Clockwise and spiraling outward
- b) Counter-clockwise and spiraling inward
- c) Straight upwards
- d) Parallel to the equator

13. When flying with a Visual Observer (VO), what is 'Closed-Loop Communication'?

- a) Talking through a private, encrypted radio channel
- b) Using hand signals instead of speaking to avoid noise
- c) A communication technique where a message is sent, received, understood, and verbally confirmed by the receiver to ensure zero misunderstandings
- d) Limiting communication strictly to the moments before take-off and after landing

14. Before conducting a flight near a residential area, the remote pilot must consult:

- a) Social media groups for local approval
- b) Standard road map applications
- c) The drone manufacturer's website
- d) Official aeronautical sources, NOTAMs, and national UAS geozone maps to check for airspace restrictions

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

- 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

16. What is 'Command Latency' in remote piloting?

- a) The slight delay between the pilot moving the control stick and the drone executing the physical maneuver
- b) The time it takes to get permission from ATC
- c) The duration of the drone's battery
- d) The time required to read the flight manual

17. If you are flying in a valley during a sunny morning, how are the local winds likely moving?

- a) Down the slopes into the valley
- b) Up the slopes (anabatic winds), as the sun heats the mountain sides faster than the valley floor
- c) In a perfect circle
- d) They remain completely stagnant

18. What does the term 'Wind Gust' mean in an aviation weather report?

- a) A steady, constant wind speed lasting for hours
- b) A rapid, brief, and sudden increase in wind speed, usually lasting less than 20 seconds, which can severely destabilize a drone
- c) The wind generated by the drone's own propellers
- d) A wind blowing strictly vertically

19. Under what conditions is 'Radiation Fog' most likely to form?

- a) On warm, windy afternoons over the ocean
- b) On clear, calm nights when the ground rapidly cools the moist air immediately above it to its dew point
- c) When a cold wind blows over a warm lake
- d) During the passage of a violent cold front

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20. Why is 'Clear Air Turbulence' (CAT) particularly dangerous in aviation?

- a) It causes sudden rain without warning
- b) It is severe turbulence that occurs in cloudless regions, meaning pilots have no visual warning (like clouds) before encountering it
- c) It only happens at night
- d) It freezes the drone's motors instantly

21. When planning a flight in an unfamiliar urban environment, what is a significant technical risk regarding GPS/GNSS?

- a) The drone's battery will drain twice as fast
- b) The Wi-Fi networks will permanently disable the compass
- c) The propellers will generate more noise
- d) The 'Multipath Effect', where satellite signals bounce off tall buildings, causing inaccurate positioning or a sudden loss of GPS lock

22. As the temperature of an air mass increases, its capacity to hold invisible water vapor:

- a) Increases significantly
- b) Decreases significantly
- c) Remains exactly the same
- d) Causes the air mass to immediately turn into snow

23. If your drone operation causes a serious injury to a person, you are legally required to:

- a) Delete all flight logs
- b) Offer them financial compensation directly
- c) Immediately report the incident to the relevant national aviation safety authority and emergency services
- d) Confiscate their mobile phone if they recorded it

24. In a METAR report, what does the abbreviation 'TS' stand for?

- a) Tropical Storm
- b) Thick Smog
- c) Thunderstorm
- d) Top Speed

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25. How do you calculate the exact MTOM of your UAS before a complex operation?

- a) By checking the drone's top speed
- b) By physically weighing the drone along with its battery, propellers, and any attached payload immediately prior to take-off
- c) By asking the visual observer to guess its weight
- d) By reading the empty weight from the manual and ignoring the battery

26. When checking space weather, what does a Kp-index of 0 to 1 indicate?

- a) A severe geomagnetic storm; flying is not recommended
- b) Total loss of GNSS satellites
- c) A hurricane is approaching
- d) Extremely calm space weather conditions; optimal for reliable GNSS/GPS reception and compass accuracy

27. What is 'Aerodynamic Drag'?

- a) The resistive force exerted by the air opposite to the direction of the aircraft's motion
- b) The upward force generated by the propellers
- c) The gravitational pull on the drone's mass
- d) The rotational force around the yaw axis

28. The Beaufort scale is used in meteorology to:

- a) Measure the intensity of an earthquake
- b) Calculate the exact humidity in the air
- c) Estimate wind speed empirically based on visual observations of its effects on the sea or land (e.g., leaves rustling, branches moving)
- d) Determine the altitude of the cloud base

29. According to the EASA rules, can a remote pilot delegate their responsibilities to the Visual Observer?

- a) Yes, if the Observer is older than the pilot
- b) Yes, but only during commercial operations
- c) No, the Remote Pilot in Command always retains full legal responsibility for the safety of the flight and the adherence to operational limitations
- d) Yes, if the Observer holds an A1/A3 certificate

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30. The 'Dew Point' is defined as:

- a) The time of day when dew evaporates
- b) The temperature to which air must be cooled (at constant pressure) for it to become 100% saturated with water vapor, leading to condensation
- c) The altitude where clouds freeze
- d) The speed at which rain falls

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Response Scheme

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

01: **C** _____

02: **B** _____

03: **A** _____

04: **B** _____

05: **C** _____

06: **B** _____

07: **C** _____

08: **B** _____

09: **A** _____

10: **C** _____

11: **B** _____

12: **A** _____

13: **C** _____

14: **D** _____

15: **C** _____

16: **A** _____

17: **B** _____

18: **B** _____

19: **B** _____

20: **B** _____

21: **D** _____

22: **A** _____

23: **C** _____

24: **C** _____

25: **B** _____

26: **D** _____

27: **A** _____

28: **C** _____

29: **C** _____

30: **B** _____

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Response form

Use this form to mark your answers

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