

AIRCADEMY



Part-FCL question bank

SPL

(Excerpt)

**Published sample
questions**

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If you have any comments or suggestions regarding the content of the questionnaire, please send them to info@aircademy.com.

1 Exceeding the maximum allowed aircraft mass is...

- A) only relevant if the excess is more than 10 %.
- B) compensated by the pilot's control inputs.
- C) exceptionally permissible to avoid delays.
- D) not permissible and essentially dangerous.

2 The center of gravity has to be located...

- A) right of the lateral C. G. limit.
- B) behind the rear C.G. limit.
- C) in front of the front C.G. limit.
- D) between the front and the rear C.G. limit.

3 The empty weight and the corresponding center of gravity (CG) of an aircraft are initially determined...

- A) through data provided by the aircraft manufacturer.
- B) for one aircraft of a type only, since all aircraft of the same type have the same mass and CG position.
- C) by calculation.
- D) by weighing.

4 Loads must be adequately secured in order to...

- A) allow steep turns.
- B) prevent excessive 'g'-loading during the landing flare.
- C) carry extra fuel.
- D) avoid any centre of gravity (C.G.) movements.

5 The total weight of an aeroplane is acting vertically through the...

- A) center of pressure.
- B) stagnation point.
- C) neutral point.
- D) center of gravity.

6 The center of gravity (CG) defines...

- A) the point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- B) the distance from the datum to the position of a mass.
- C) the product of mass and balance arm.
- D) the point through which the force of gravity is said to act on a mass.

- 7 The term "moment" with regard to a mass and balance calculation is referred to as...**
- A) product of a mass and a balance arm.
 - B) quotient of a mass and a balance arm.
 - C) sum of a mass and a balance arm.
 - D) difference of a mass and a balance arm.
- 8 The term "balance arm" in the context of a mass and balance calculation defines the...**
- A) distance from the datum to the center of gravity of a mass.
 - B) point through which the force of gravity is said to act on a mass.
 - C) distance of a mass from the center of gravity.
 - D) point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- 9 The balance arm is the horizontal distance between...**
- A) the front C.G. limit and the datum line.
 - B) the C.G. of a mass and the rear C.G. limit.
 - C) the C.G. of a mass and the datum line.
 - D) the front C.G. limit and the rear C.G. limit.
- 10 The required data for a mass and balance calculation including masses and balance arms can be found in the...**
- A) performance section of the pilot's operating handbook of this particular aircraft.
 - B) certificate of airworthiness.
 - C) mass and balance section of the pilot's operating handbook of this particular aircraft.
 - D) documentation of the annual inspection.
- 11 Which factor shortens landing distance?**
- A) High density altitude
 - B) Strong head wind
 - C) Heavy rain
 - D) High pressure altitude

12 Unless the aircraft is equipped and certified accordingly...

- A) flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.
- B) flight into areas of precipitation is prohibited.
- C) flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.
- D) flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay.

13 What is the purpose of "catch lines" in visual navigation?

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

14 Up to which altitude is an overflight prohibited according to the NOTAM?

See figure (PFP-024)

Please pay attention to annex 1

- A) Flight Level 95
- B) Altitude 9500 m MSL
- C) Altitude 9500 ft MSL
- D) Height 9500 ft

PFP-024

A4604/11 NOTAMN

Q)

EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004

A) EDWW

B) 1111180800 C) 1111181200

E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS
3.35NM CENTERED AROUND 515436N 0103725E DUE
TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL,
(25NM S BRAUNSCHWEIG NDB BRU) .

F) GND

G) 9500 FT AMSL

15 During a flight, a flight plan can be filed at the...

- A) Search and Rescue Service (SAR).
- B) Flight Information Service (FIS).
- C) next airport operator en-route.
- D) Aeronautical Information Service (AIS).

16 While planning a cross country gliding flight, what ground structure should be avoided enroute?

- A) Moist ground, water areas, marsh areas.
- B) Stone quarries and large sand areas.
- C) Areas with buildings, concrete and asphalt.
- D) Highways, railroad tracks and channels.

17 (For this question, please use annex PFP-061)

According ICAO, what symbol indicates a group of unlighted obstacles?

Please pay attention to annex 2

- A) D
- B) A
- C) C
- D) B

18 What distance can be covered during a glide in a glider plane with glide ratio 1/30 from a height of 1500 m?

(Neglect wind and thermal effects)

- A) 45 NM
- B) 30 km
- C) 45 km
- D) 81 NM

Annex 1

PFP-024

A4604/11 NOTAMN

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Annex 2

A 

B 

C 

D 

PFP-061