Status	Finished
Started	Thursday, 11 September 2025, 8:51 AM
Completed	Thursday, 11 September 2025, 8:51 AM
Duration	9 secs
Marks	0.00/45.00
Grade	<b>0.00</b> out of 100.00
Feedback You must review all the course material and the end of chapter quick quizzes, for all the chapters core-attempt this test.	

## Question 1

Not answered

Marked out of 1.00

## Differential aileron deflection:

- equalises the drag of the right and left aileron.
- o is required to achieve the required roll rate.
- increases the CLMAX.
- o is required to keep the total lift constant when ailerons are deflected.

The correct answer is: equalises the drag of the right and left aileron.

# Question 2

Not answered

Marked out of 1.00

## What is "Deterrent Buffet"?

- It is normal on take-off when fully loaded.
- It is an indication to jet transport crews that higher alpha should be used with caution.
- It is considered to be the stall limit on jet transport aircraft.
- It is confirmation that the aircraft is in a full stall.

The correct answer is: It is considered to be the stall limit on jet transport aircraft.

/09/2025, 09:51	A-POF(13-22) PT03.A: Attempt review   OSMAA		
Question 3			
Not answered			
Marked out of 1.00			
The roll caused by asymmetric flap extension	controllable with aileron.		
is usually			
is often not			
is always			
The correct answer is: is often not			
Question 4			
Not answered			
Marked out of 1.00			
To ensure a consistent, reliable and predictable rate of rotation on take-off:  The THS angle of attack must be adjusted according to the aircraft's CG position.  The THS angle of incidence must be set to zero.  The THS elevator angle must be adjusted according to the aircraft's CG position.  The THS angle of incidence must be adjusted according to the aircraft's CG position.  The Correct answer is: The THS angle of incidence must be adjusted according to the aircraft's CG position.			
Question 5  Not answered			
Marked out of 1.00			
During an normal spin recovery:  the ailerons are held in the neutral position. the control stick is moved side ways, against the angon the control stick is pulled to the most aft position. the control stick is moved side ways, in the direction			

The correct answer is: the ailerons are held in the neutral position.

/09/2025, 09:51	A-POF(13-22) PT03.A: Attempt review   OSMAA
Question 6	
Not answered	
Marked out of 1.00	
The best L/D ratio occurs at _	The shallowest glide is achieved by flying at the speed which equates to this value.
○ VMD	
○ VREF	
The course to 2000 in 1/4/D	
The correct answer is: VMD	
Question 7	
Not answered	
Marked out of 1.00	
	ents is most correct.  CRIT) is the highest achievable angle of attack before the wing stalls.  CRIT) is the angle of attack at which the wing stalls.
	CRIT) is the lowest achievable speed before the wing stalls.
	ressibility, the critical angle (alphaCRIT) varies with TAS
The correct answer is: The cri	tical angle (alphaCRIT) is the highest achievable angle of attack before the wing stalls.
Question 8	
Not answered	
Marked out of 1.00	
The purpose of correctly setti	ng the leading and trailing edge devices on the wing of an aeroplane during take-off, approach and landing
reduce stall speed, increal	ase CLMAX with minimum increase in drag for take-off, but with a relatively high drag for approach and
oreduce stall speed and d	rag during take-off and landing.

- oreduce the take-off roll and increase the landing roll.
- increase stall speed and CLMAX during take-off, but reduce stall speed with a relatively high drag during approach and landing.

The correct answer is: reduce stall speed, increase CLMAX with minimum increase in drag for take-off, but with a relatively high drag for approach and landing.

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Question 9	
Not answered	
Marked out of 1.00	
something interesting on the g 1. Heavy buffet of the elevator 2. Significant pitch-up of the n 3. The audible stall warning so	ose immediately before the stall,
The correct answer is: 3 and 4	
Question 10	
Not answered	
Marked out of 1.00	
High-wing designs are	prone to ground effect.
always	
o more	
less	
The correct answer is: less	
Question 11	
Not answered	
Marked out of 1.00	
Light buffet is felt as you approach The nose attitude is abnormall. There is heavy buffet as you en the nose drops sharply and a substitution These symptoms describe the swept washout	y high. nter the stall. wing may drop.
<ul><li>asymmetric</li></ul>	
straight	

The correct answer is: straight

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Questi	on <b>12</b>
Not ans	swered
Marked	out of 1.00
If a T	THS runaway is detected by the crew, the 2 most important immediate actions are:
	To decrease airspeed to increase the effectiveness of the THS.
	To counter the pitching moments and hold the aircraft in a sensible attitude.  To electrically isolate the THS as soon as possible to prevent it from reaching full deflection.
	To increase airspeed to give more effectiveness to the elevator.
	To increase airspeed to give more effectiveness to the elevator.
	correct answers are: To counter the pitching moments and hold the aircraft in a sensible attitude., To electrically isolate the THS as a possible to prevent it from reaching full deflection.
Questi	on <b>13</b>
Not ans	swered
Marked	out of 1.00
The	Speeds limits are imposed on instrument procedures to keep the aircraft within the procedure's protected airspace.  Safe separation from terrain cannot be guaranteed if an aircraft flies at less than the designated speed limit for the procedure.  Speed limits are imposed on instrument procedures to limit the aircraft's radius of turn.  Speed limits are imposed on instrument procedures to limit the aircraft's rate of turn.  correct answers are: Speed limits are imposed on instrument procedures to limit the aircraft's radius of turn., Speeds limits are osed on instrument procedures to keep the aircraft within the procedure's protected airspace.
Not ans	
Marked	out of 1.00
	is the speed, below which, an aircraft stalls in level, unaccelerated, flight.  VS0  VS1  VS1G  VSR  correct answer is: VS1G
. 110	

Question 15
Not answered
Marked out of 1.00
Lowering TE flap can cause the CP to move
o forwards
○ aft
The correct answer is: aft
Question 16  Not answered
Marked out of 1.00
The forces perpendicular to the flight path in a descent are and a component of
○ lift; weight.
thrust; weight.
The correct answer is: lift; weight.
Question 17
Not answered
Marked out of 1.00
In a turn where the angle of bank, forward velocity and load factor are harmonised, the turn is said to be
o maximised
coordinated
The correct answer is: coordinated
. 10
Question 18 Not answered
Marked out of 1.00
When entering around affect reciptaining the company of life OI manying
When entering ground effect, maintaining the same coefficient of lift, CL, requires:
flaps to be set to the landing configuration.
<ul><li>flaps to be set to the landing configuration.</li><li>an increase in thrust.</li></ul>

The correct answer is: a lower angle of attack.

Question 19
Not answered
Marked out of 1.00

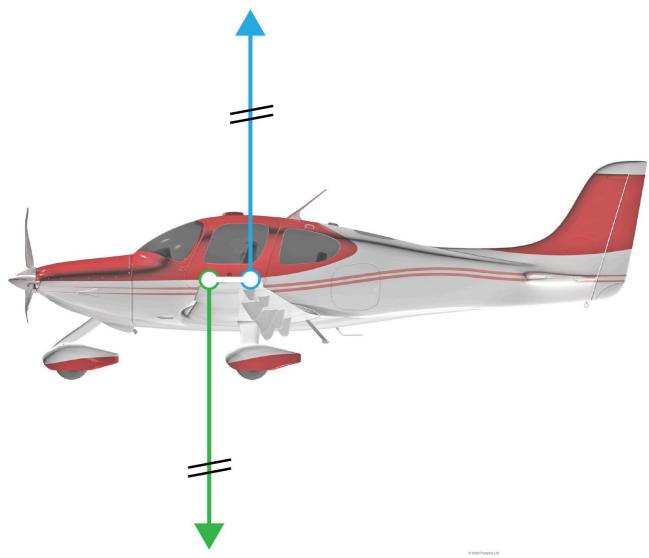
Mass balancing of control surfaces is used to:

- prevent flutter of control surfaces.
- increase the stick force stability.
- ensure that the control surfaces are in the mid-position during taxiing.
- limit the stick forces.

The correct answer is: prevent flutter of control surfaces.

Question 20
Not answered

Marked out of 1.00



Study the diagram carefully, then identify the correct statement.

- The aircraft is in trim but not in equilibrium.
- The aircraft is in equilibrium and, therefore, in trim.
- The aircraft is not in equilibrium.
- O The aircraft is in equilibrium and may or may not be in trim.

The correct answer is: The aircraft is in equilibrium and may or may not be in trim.

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Question 21	
Not answered	
Marked out of 1.00	
Which 2 of the	following statements about the use of rudder in the turn is/are correct?
Using rude	lder to tighten the turn reduces the turn rate.
	der to accelerate the rate of roll into a turn is a valid technique on CAT aircraft.
	der to tighten the turn on finals is ineffective and dangerous.
Use of ruc	dder to accelerate the roll into the turn can result in excessive loads on the fin.
	swers are: Use of rudder to accelerate the roll into the turn can result in excessive loads on the fin., Using rudder to tighten als is ineffective and dangerous.
Question 22	
Not answered	
Marked out of 1.00	
The primary ca	ause of ground effect is:
The change	ging direction of the relative airflow.
The reduce	ction in parasite drag.
<ul><li>The block</li></ul>	ring by the ground of the circulation of the tip vortices.
The effect	t of jet or propeller flow impacting the ground.
The correct ans	swer is: The blocking by the ground of the circulation of the tip vortices.
Question 23	
Not answered	
Marked out of 1.00	
Which of the fo	ollowing statements is/are correct? Mark all correct answers.
The angle	e of attack of a THS is primarily controlled by an electrical trim jack.
	nable horizontal stabiliser (THS) uses a conventional elevator for pitch control.
	e of attack of an all-flying stabilator is controlled by the pilot's control column.
	function of the trim jack on a THS is to change the angle of incidence of the THS, (this may also change the angle of
attack).	
The correct and	swers are: The angle of attack of an all-flying stabilator is controlled by the pilot's control column., The trimmable
	oiliser (THS) uses a conventional elevator for pitch control The only function of the trim jack on a THS is to change the

angle of incidence of the THS, (this may also change the angle of attack).

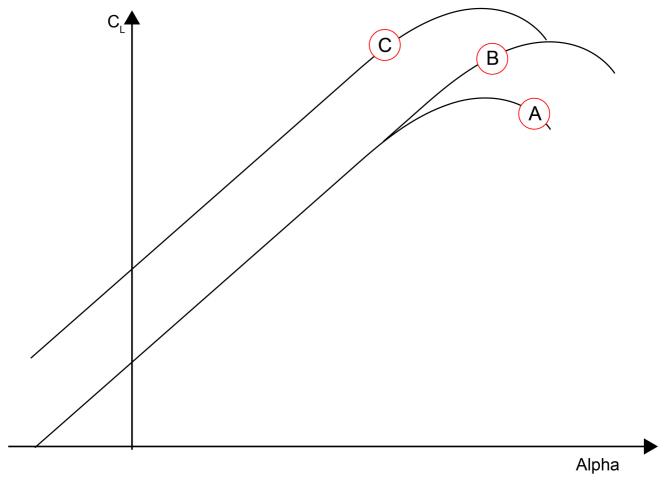
/09/2025, 09:51	A-POF(13-22) PT03.A: Attempt review   OSMAA
Question 24	
Not answered	
Marked out of 1.00	
Atab moves in the oppo	osite direction from the control surface, thus assisting its movement and so reducing the loads felt at
the control column.	
balance	
servo	
<ul> <li>anti-balance</li> </ul>	
spring	
The correct answer is: balance	
Question 25	
Not answered	
Marked out of 1.00	
The stall is recognised by continuou	us stall warning plus at least 1 of the following: Mark all correct answers.
Uncommanded pitch down and	d uncommanded roll.
Lack of pitch authority.	
Low speed.	
Inability to arrest the rate of de	scent.
The comment of the co	

The correct answers are: Inability to arrest the rate of descent., Lack of pitch authority., Uncommanded pitch down and uncommanded roll.

Question 26

Not answered

Marked out of 1.00



Study the diagram. Given that A represents the CL alpha curve for a clean wing: Mark 2 correct answers.

- B depicts the effect of slats.
- A depicts a cambered wing.
- A depicts a symmetrical wing.
- C depicts the effect of slats.
- B depicts the effect of trailing edge flap.

The correct answers are: A depicts a cambered wing., B depicts the effect of slats.

## Question 27

Not answered

Marked out of 1.00

The forces acting on an aircraft in the glide are: Mark all correct answers.

- Thrust.
- Lift.
- Weight.
- Drag.

The correct answers are: Lift., Weight., Drag.

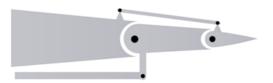
/09/2025, 09:51	A-POF(13-22) PT03.A: Attempt review   OSMAA
Question 28	
Not answered	
Marked out of 1.00	
The forces perp	pendicular to the climb are: components of weight and components of
lift	
drag	
The correct ans	wer is: lift
Question 29	
Not answered	
Marked out of 1.00	
A prolonged clir	mb at a constant rate of climb and thrust will result in a steadily decreasing
IAS	
alpha	
The correct ans	wer is: IAS
The correct and	
Question 30	
Not answered	
Marked out of 1.00	
	leron deflects through a larger angle than the down-going one, producing more form drag. This is a description of
aile	rons.
<ul><li>incrementa</li></ul>	
sequential	4
<ul><li>frise</li></ul>	
differential	

The correct answer is: differential

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Questio	n 31
Not answ	wered
Marked	out of 1.00
Whic	h of the following statements about roll control is/are correct? Mark all correct answers.
	The secondary effect of roll is yaw.
	The purpose of aileron droop is to increase CLMAX at high speed.
	On some CAT aircraft the outboard ailerons are not used for roll control at high speed.
	The purpose of the mixer unit is to automatically generate a small rudder movement when the ailerons are moved.
	correct answers are: On some CAT aircraft the outboard ailerons are not used for roll control at high speed., The purpose of the mixer is to automatically generate a small rudder movement when the ailerons are moved., The secondary effect of roll is yaw.
Questio	n 32
Not ansv	wered
Marked	out of 1.00
	mechanically reenergise the boundary layer to improve CLMAX and increase the critical angle.  Wing fences Saw-tooth leading edges Vortex generators  correct answer is: Vortex generators
Questio	n <mark>33</mark>
Not answ	wered
Marked	out of 1.00
	to a mechanical failure, the flaps are only extended in one of the wings. What will happen?  The aircraft will roll and yaw to the side where the flaps are not extended.  The aircraft will roll to the side where the flaps are not extended and yaw to the direction of the wing with extended flaps.  The aircraft will roll and yaw to the side where the flaps are extended.  The aircraft will roll to the side where the flaps are extended and yaw to the same direction of the roll.

The correct answer is: The aircraft will roll to the side where the flaps are not extended and yaw to the direction of the wing with extended flaps.

Question 34		
Not answered		
Marked out of 1.00		





This system is known as a:

-		
	Internal	balance.

- Spring tab.
- Balance tab.
- Servo tab.

The correct answer is: Balance tab.

## Question 35

Not answered

Marked out of 1.00

The purpose of engine nacelle strakes is to: Mark all correct answers.

- Delay the onset of flow separation in the area of the wing behind the nacelle.
- Create a vortex at high alpha which re-energises the boundary layer.
- Locally reduce the upwash at the wing leading edge.
- Ensure stable intake conditions at high alpha.

The correct answers are: Delay the onset of flow separation in the area of the wing behind the nacelle., Create a vortex at high alpha which re-energises the boundary layer., Locally reduce the upwash at the wing leading edge.

# Question 36

Not answered

Marked out of 1.00

At high angles of attack the aircraft may roll in the opposite direction from the one commanded by aileron input.

- Because of adverse aileron yaw.
- $\, \bigcirc \,$  Because of the increased camber produced by the up-going aileron.
- Because of the increased camber produced by the down-going aileron.
- Because of the asymmetric drag produced by the up-going aileron.

The correct answer is: Because of the increased camber produced by the down-going aileron.

Question 37 Not answered Marked out of 1.00 Close the power lever. Apply full opposite rudder. Move the controls column centrally forward till the buffet stops. Ease out of the ensuing dive. Is a description of the typical recovery actions for a \_\_\_\_\_ spin clear rational fully developed incipient The correct answer is: fully developed Question 38 Not answered Marked out of 1.00 Ground effect occurs within \_\_\_\_\_ wingspan(s) of the surface. Its effect strengthens markedly as you get closer to the surface. 0 1 **2** 0 1.5 2.5 The correct answer is: 1 Question 39 Not answered Marked out of 1.00 A swept-back wing, in comparison to a straight wing, has an increased tendency to: oroot stall. high-speed stall.

tip stall.

mid-wing stall.

The correct answer is: tip stall.

1/09/2025, 09:51	A-POF(13-22) P103.A: Attempt review I OSMAA
Question 40	
Not answered	
Marked out of 1.00	
W cos y gives the component of weight acting	_ the flight path.
<ul> <li>in the opposite direction along.</li> </ul>	
along.	
operpendicular to.	
The correct answer is: perpendicular to.	
The correct answer is, perpendicular to.	
Question 41	
Not answered	
Marked out of 1.00	
At zero g the load factor is zero. The aircraft stall.	
cannot	
o will	
o can	
The correct answer is: cannot	
Question 42	
Not answered	
Marked out of 1.00	
The purpose of the slot is to	
maintain a laminar flow across the entire upper surfa	ce.
reattach the upper surface flow.	
delay flow separation.	

The correct answer is: delay flow separation.

Question 43

Not answered

Marked out of 1.00



Study the scenario shown in this diagram. Then choose the action most likely to immediately improve the situation.

- Extend flap.
- Reduce thrust.
- Reduce speed.
- Increase speed.

The correct answer is: Reduce thrust.

# Question 44

Not answered

Marked out of 1.00

An aerodynamic balancing device, which makes it possible for a large surface to be deflected by a relatively small control force, is called:

- an anti-balance tab.
- a horn balance.
- a servo tab.
- a balance tab.

The correct answer is: a servo tab.

Question 45
Not answered
Marked out of 1.00
As you approach the 1g stall, the flight controls become effective. The aircraft responds slowly and sluggishly to your commands flight controls feel light (easier to operate) as you approach the stall
O less; Manual.
O less; Powered.
omore; Manual.
o more; Powered.

The correct answer is: less; Manual.