Status	Finished
Started	Thursday, 11 September 2025, 8:53 AM
Completed	Thursday, 11 September 2025, 8:53 AM
Duration	9 secs
Marks	0.00/45.00
Grade	0.00 out of 100.00
Feedback	You must review all the course material and the end of chapter quick quizzes, for all the chapters covered, before you re-attempt this test.
Question 1	
Not answered	
Marked out of 1.00	
you must also de-ice; anti-ice anti-ice; de-ice de-ice; de-ice	ice.
Question ∠ Not answered	
Marked out of 1.00	
The point at which critical Mach	ce Mach number
The correct answe	r is: critical Mach number

Question 3
Not answered
Marked out of 1.00
At high speeds, may be used for lateral control rather than the inboard ailerons. Without such systems, VNE or VMO/MMO must always be set lower than the aileron reversal speed.
O differential speed-brake
The correct answer is: spoilers
Question 4
Not answered
Marked out of 1.00
If icing reduces the alpha CRIT, the aircraft may stall stall warnings are triggered.
after
before
The correct answer is: before
Question 5
Not answered
Marked out of 1.00
is the absolute maximum EAS that the airframe can withstand without damage or structural failure.
O VD
O VA
O VC
○ VB
The correct answer is: VD
Question 6
Not answered
Marked out of 1.00
VLO is often than VLE.
○ lower
○ greater
O higher

The correct answer is: lower

/09/2025, 09:53	A-POF(26-32) PT05.A: Attempt review OSMAA
Question 7	
Not answered	
Marked out of 1.00	
Determine the approximate value thrust of 600 000 N:	of lift for an aircraft climbing at an angle of 9° with a weight of 1 250 000 N, drag of 300 000 N and a
○ 600 000 N	
○ 400 000 N	
○ 1600 000 N	
○ 1200 000 N	
The correct answer is: 1 200 000	N
Question 8	
Not answered	
Marked out of 1.00	
A twin-engine propeller aircraft s most difficult?	uffers an engine failure. Under which of the following circumstances is retention of control likely to be
Aerodrome at high density a	ltitude, critical engine failure at the point of go-around.
 Aerodrome at high density a 	ltitude, critical engine failure after take-off.
 Aerodrome at low density al 	titude, critical engine failure after take-off.
Aerodrome at low density all	titude, critical engine failure at the point of go-around.
The correct answer is: Aerodromo	e at low density altitude, critical engine failure at the point of go-around.
Question 9	
Not answered	
Marked out of 1.00	
You should not intentionally fly cl	ose to VNE/VMO:
Because this increases the r Because of the risk of a high	isk of inadvertently exceeding the limit in a slight descent or turbulence.

- Because VNE/VMO changes with decreasing aircraft mass.
- Because this speed is very close to coffin corner.

The correct answer is: Because this increases the risk of inadvertently exceeding the limit in a slight descent or turbulence.

09/2025	,09:53	A-POF(26-32) PT05.A: Attempt review OSMAA
Questic	on 10	
Not ans	wered	
Marked	out of 1.00	
The	aircraft yaws to the left. This might occur because:	
	There is an increased lift from the right wing.	
	You roll to the left.	
	You press the right pedal.	
	You roll to the right.	
The	correct answer is: You roll to the right.	
Questic	on 11	
Not ans	wered	
Marked	out of 1.00	
tailpl	decreases; raising. increases; raising. increases; lowering. decreases; lowering. decreases; lowering.	e aircraft to pitch nose-down. Downwash from the wing the risk of gger for the stall of an ice-contaminated tailplane.
Questic		
Not ans		
Marked	out of 1.00	
	planes designed for transonic or supersonic flight sh The elevator may become ineffective if a shock wave The ailerons may need to be locked-out if shock wav Shock waves on a control surface may cause high fr Only a THS allows the crew to detect the onset of M	e forms ahead of the hinge, causing the airflow to separate. ves form ahead of their hinges. equency oscillation known as 'control buzz'.

The correct answer is: The elevator may become ineffective if a shock wave forms ahead of the hinge, causing the airflow to separate.

09/2025,	A-FOI (20-32) F103.A. Attempt teview F05WAA
Question	n 13
Not ansv	wered
Marked o	out of 1.00
Whicl	h 3 of the following statements is/are correct:
	A fixed pitch propeller preserves propeller efficiency over a wide range of airspeeds. The adjustable pitch propeller allows the blade pitch angle to be manually adjusted by the pilot using a pitch control lever.
	On a fixed pitch propeller, there is only one TAS at which the blade angle of attack is optimum. The blade pitch angle of a constant speed propeller is mechanically controlled by a governor to keep the propeller blades at their optimum angle of attack over a wide airspeed range.
	On a constant speed propeller, the blade angle of attack is preserved at its optimum (across a wide range of TAS) by altering the blade twist.
contr their	correct answers are: The adjustable pitch propeller allows the blade pitch angle to be manually adjusted by the pilot using a pitch ol lever., The blade pitch angle of a constant speed propeller is mechanically controlled by a governor to keep the propeller blades at optimum angle of attack over a wide airspeed range., On a fixed pitch propeller, there is only one TAS at which the blade angle of k is optimum.
Question	n 14
Not ansv	wered
Marked o	out of 1.00
An er	ngine failure can result in a windmilling (1) propeller and a feathered (2) propeller. Which statement about propeller drag is correct?
	(1) is larger than (2).
	(1) is equal to (2).
(i	it is impossible to say which one is largest.
	(2) is larger than (1).
The c	correct answer is: (1) is larger than (2).
Question	n 15
Not ansv	wered
Marked o	out of 1.00
A VM	ICA is needed because:
0	There is a minimum speed below which the moment produced by asymmetric thrust becomes very large.
	There is a minimum speed below which the rudder and fin can't provide enough restoring moment.
	There is a maximum speed above which the rudder and fin can't provide enough restoring moment.
	There is a minimum speed below which the rudder stalls.

The correct answer is: There is a minimum speed below which the rudder and fin can't provide enough restoring moment.

/09/2025, 09:53	A-POF(26-32) PT05.A: Attempt review OSMAA
Question 16	
Not answered	
Marked out of 1.00	
Located on the underside of	a wing's leading edge, vortilons produce a vortex on the wing's :
upper surface, at high a	angles of attack, to reduce the spanwise flow of air.
upper surface, at cruise	e angles of attack, to keep the boundary layer attached to the wing.
lower surface, at high a	ngles of attack, to keep the boundary layer attached to the wing.
 lower surface, at low an 	gles of attack, to provide improved roll control.
The correct answer is: upper	surface, at high angles of attack, to reduce the spanwise flow of air.
Question 17	
Not answered	
Marked out of 1.00	
If an aeroplane exhibits insuf	ficient stick force per g, this problem can be resolved by installing:
 a bobweight in the cont 	rol system which pulls the stick forwards.
 a spring which pushes t 	he stick forwards.
 a spring which pulls the 	stick backwards.
a bobweight in the cont	rol system which pulls the stick backwards.
The correct answer is: a bob	weight in the control system which pulls the stick forwards.
Question 18	
Not answered	
Marked out of 1.00	
Can be made much stronger	argin between MCRIT and MDRAG DIVERGENCE. than any other type of wing. s right up to the critical angle because of their round leading edges.
O Thin	

The correct answer is: Supercritical

Swept

_				-	0
റ	пο	et.	inı	പി	ч

Not answered

Marked out of 1.00

_____ power setting at _____ air density produces the greatest yawing moment.

High; low.

Low; high.

Low; low.

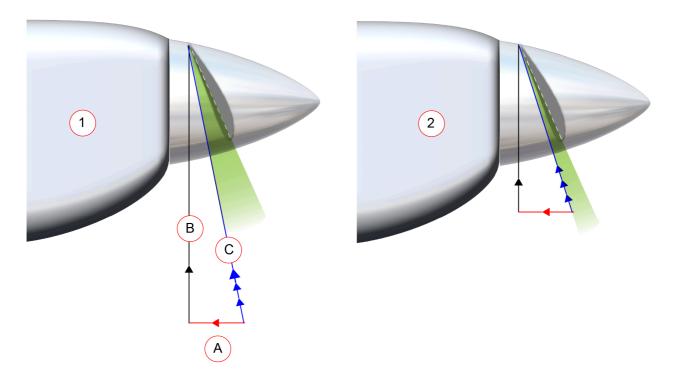
High; high.

The correct answer is: High; high.

Question 20

Not answered

Marked out of 1.00



Study the diagram then identify which 3 of the following statements are correct.

	Label	В	shows	rotational	velocity.
--	-------	---	-------	------------	-----------

Label C shows the RAF.

Label A shows IAS.

Label 1 shows a high air speed situation.

☐ Label 2 shows a low RPM situation.

The correct answers are: Label 2 shows a low RPM situation., Label B shows rotational velocity., Label C shows the RAF.

Question 21 Not answered
Marked out of 1.00
The purpose of the wing is to retain a high MCRIT despite having a thicker section, which increases the margin between MCRIT and MDRAG DIVERGENCE.
symmetrical
The correct answer is: supercritical
Question 22
Not answered
Marked out of 1.00
is the highest speed at which sudden, full-up elevator deflection can be made without exceeding the limit load factor. VC VA
○ VD
○ VB
The correct answer is: VA
Question 23
Not answered
Marked out of 1.00
drag from heavy rain can further increase drag. Momentum
○ Viscous

The correct answer is: Momentum

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Question 24
Not answered
Marked out of 1.00
The buffet margin reduces if: Mark all correct answers. Load factor increases.
Mass reduces.
Pressure altitude increases.
Angle of bank increases.
*CG moves fwd.
☐ Alpha increases.
The correct answers are: Alpha increases., Pressure altitude increases., Load factor increases., Angle of bank increases., *CG moves fwd.
Question 25
Not answered
Marked out of 1.00
A thin covering of frost on the aircraft's critical surfaces aerodynamic performance. has only a minor effect on
 can improve
can catastrophically degrade
has no effect on
The correct answer is: can catastrophically degrade
Question 26
Not answered
Marked out of 1.00
You are flying a crop duster in the utility category with a VSO of 45 kts and a VS1 of 58 kts. What is the VA speed?
○ 66 kt
O 94 kt
○ 113 kt
○ 122 kt

The correct answer is: 122 kt

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Questi	ion <mark>27</mark>		
Not ans	nswered		
Marked	d out of 1.00		
The	e critical Mach number of an aeroplane is	the Mach number:	
	above which, locally, supersonic flow ex	xists somewhere over the aeroplane.	
	at which the aeroplane has zero buffet		
	,		
	at which there is subsonic flow over ail	parts of the aeroplane.	
The	e correct answer is: above which, locally,	supersonic flow exists somewhere over the aeroplane.	
Questi	ion 28		
	nswered		
Markec	d out of 1.00		
On a	a right-hand propeller, P-factor will cause	e the aircraft to:	
	Roll right.		
	Yaw left.		
	Roll left.		
	Yaw right.		
The	e correct answer is: Yaw left.		
	ion 29		
	nswered		
Marked	d out of 1.00		
Whi	ich of the following statements is/are cor	rect? Mark all correct answers.	
	Increasing the number of blades increas	sed to ensure that tip velocity doesn't become transonic or supersonic. ses solidity but the maximum number of blades is limited by the need to preserve the	
	aerodynamic performance of individual blades.		
		ds reduce the efficiency of the propeller.	
		red to ensure adequate ground clearance.	
	,		

The correct answers are: The propeller diameter must be restricted to ensure that tip velocity doesn't become transonic or supersonic., The propeller diameter must be restricted to ensure adequate ground clearance., Increasing the number of blades increases solidity but the maximum number of blades is limited by the need to preserve the aerodynamic performance of individual blades., The principal cause of high propeller noise is high propeller tip speeds., Compressibility effects at high tip speeds reduce the efficiency of the propeller.

/09/2025, 09:53	A-POF(26-32) PT05.A: Attempt review OSMAA
Question 30	•
Not answered	
Marked out of 1.00	
On the ground, when parked o	vernight in cold conditions with visible moisture present, ice can accumulate
on the leading edges and	upper surfaces.
anywhere on the airframe	
,	
The correct answer is: anywhe	re on the airframe.
Question 31	
Not answered	
Marked out of 1.00	
These parameters are used for Go-around power or thrust on The most unfavourable CG post The aircraft trimmed for the ap The most unfavourable weight In the most critical configuration VMCA VMCL	the operating engine(s). sition (aft CG - shortest arm). proach.
The correct answer is: VMCL	
Question 32	
Not answered	
Marked out of 1.00	

An aircraft has a right-hand propeller. The pilot pitches nose-down. Gyroscopic effects will cause the aircraft to:

- Pitch down.
- Yaw right.
- O Pitch up.
- Yaw left.

The correct answer is: Yaw left.

/09/2025, 09:53	A-POF(26-32) PT05.A: Attempt review OSMAA
Question 33	
Not answered	
Marked out of 1.00	
Which statement about propeller icing is cor	root?
I. Propeller icing increases blade element dra	
II. Propeller icing reduces propeller efficiency	
I is incorrect, II is incorrect.	
I is incorrect, II is correct.	
I is correct, II is incorrect.	
I is correct, II is correct.	
The correct answer is: I is correct, II is correc	ct.
,	
Question 34	
Not answered	
Marked out of 1.00	
Which of the following statements about tail	planes is correct? A T-tail is:
 less stabilising than a low tailplane beca 	ause it is more affected by downwash behind the wings.
 less stabilising than a low tailplane beca 	ause it is less affected by downwash behind the wings.
 more stabilising than a low tailplane bed 	cause it is less affected by downwash behind the wings.
 more stabilising than a low tailplane bed 	cause it is more affected by downwash behind the wings.
The correct answer is: more stabilising than	a low tailplane because it is less affected by downwash behind the wings.
	a to the tampian of a social control of a soci
Question 35	
Not answered	
Marked out of 1.00	
VRA is turbulence penetration speed. It must	t be less than VMO kt.
O 50	
<u> </u>	
25	
○ 35	

The correct answer is: 35

/09/2025, 09:53	A-POF(26-32) PT05.A: Attempt review OSMAA
Question 36	
Not answered	
Marked out of 1.00	
If the elevator trim tab is deflected up, the cockpit	trim indicator shows:
o nose up.	
oneutral.	
onose down.	
onose left.	
The correct answer is: nose down.	
Question 37	
Not answered	
Marked out of 1.00	
The advantage of cruising above is the Achieve a faster cruise speed for not much increase Attain better specific range. Achieve the optimum cruise altitude. MDRAG DIVERGENCE MFS MCRIT The correct answer is: MCRIT	
Question 38	
Not answered	
Marked out of 1.00	
Regarding a normal shock wave on the upper surface. the coefficient of drag increases and the coefficient of drag increases and the coefficient of drag increases.	ace of a wing, as Mach number increases towards Mach drag divergence:
 the shock wave intensifies and the reduction 	in air density from in front of the shock wave to behind it increases.
 the reduction in the local speed of sound from 	n in front of the shock wave to behind it increases.
 the shock wave moves aft and the coefficient 	of lift increases.

The correct answer is: the shock wave moves aft and the coefficient of lift increases.

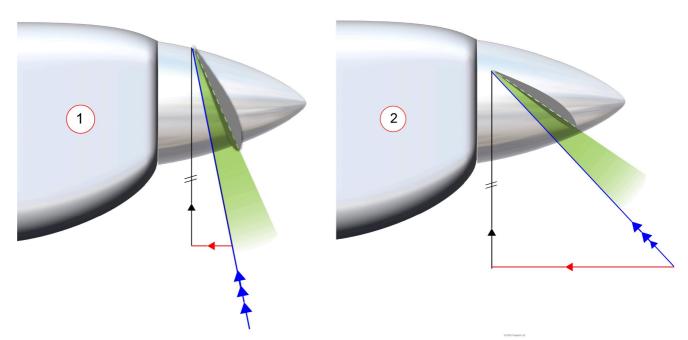
09/2025,	09:53 A-POF(26-32) PT05.A: Attempt review OSMAA
Question	39
Not answ	vered
Marked c	out of 1.00
On a v	wing flying in supersonic flow, the normal shock wave forms at an angle of:
_ r	nore than 90° to the wing surface.
	ess than 70° to the wing surface.
	ess than 70° to the wing surface, that further reduces towards the edge of the shockwave.
0 9	90° to the wing surface.
The c	orrect answer is: 90° to the wing surface.
Question	40
Not answ	
Marked c	out of 1.00
	use the load factor increases when manoeuvring and in turbulence, a load factor of g is normally used to determine the conset Mach numbers when using a BOB chart.
0 1	.3
O 1	
0 (0.9
The c	orrect answer is: 1.3
Question	41
Not answ	vered
Marked c	out of 1.00
prope	o factor; yaw orque effect; yaw orque effect; roll
O F	o factor; roll

The correct answer is: torque effect; yaw

Question 42

Not answered

Marked out of 1.00



Study the diagram, then identify which of the following statements are correct. Mark all correct answers.

- Aircraft 1 has a lower air speed than Aircraft 2.
- The rotational velocity of Propeller 2 has been increased to preserve optimum alpha.
- Propeller 2 is creating more torque drag than Propeller 1.
- The images show the operation of a variable pitch propeller.
- Propeller 2 is creating the same torque drag as Propeller 1

The correct answers are: Aircraft 1 has a lower air speed than Aircraft 2., The images show the operation of a variable pitch propeller., Propeller 2 is creating more torque drag than Propeller 1.

Question 43

Not answered

Marked out of 1.00

The narrow range of available operating speeds, bounded by the onset of low speed buffet at one side and the onset of high speed buffet at the other is known as the buffet margin. It _____ with altitude.

- decreases
- increases
- remains constant

The correct answer is: decreases

09/2025, 09:53	A-POF(26-32) PT05.A: Attempt review OSMAA
Question 44	
Not answered	
Marked out of 1.00	
The maximum time an aircraft can remain on the ground	before take-off after de-icing/anti-icing is known as the time. If
precipitation is falling, this will the time.	
standing; reduce.	
standing; increase.	
holdover; increase.	
holdover; reduce.	
The correct answer is: holdover; reduce.	
Question 45	
Not answered	
Marked out of 1.00	
If, after anti-icing/de-icing you exceed the holdover time	e while waiting for take off, you
may continue the take-off provided you see no sign	
	cal log, and then continue the take-off provided you see no sign of contamination.
must repeat the entire anti-ice/de-ice procedure.	
 must have the surfaces visually inspected by an er 	igineer.

The correct answer is: must repeat the entire anti-ice/de-ice procedure.