



Pre-Solo Written Exam C172 N 01JAN2021

Name:	Date:
Airplane Tail #:N737GZ	
Answer the following questions in the space proyou reference one of these sources for an answer	ovided, using the FARs, AIM, AFD and POH. If er, be sure to note it for your future reference.
Engine	
What type of engine does the N737GZ have?	
What is the engine horsepower?	
What is the total capacity of the fuel tanks?	
what is the total capacity of the fuel tanks?	
What is the total usable fuel capacity of the fuel	l tanks?
What are the approved fuel grades & colors?	
What type of oil should be used for N737GZ?	
When cold, how many quarts of oil should N73	7GZ have before the flight?

Speeds

V-Speeds: Please provide both definitions and KIAS for each

	KIAS	Definition		KIAS	Definition
V_R			V_{NO}		
V_{X}			V_{A}		
V_{Y}			V_{FE}		
V_{G}			V_{S}		
V_{NE}			V_{S0}		

What is the maximum demonstrated crosswind component?

Weight & Balance

What is the Maximum Takeoff/Landing Weight (normal category)?

What are the C.G Limits (normal category)?

What is the empty weight for N737GZ?

With full tanks, what is the Useful Load?

Performance

Assume:	Max Takeoff Weight Paved, Level, Dry Runway Zero Wind 20 degrees C Pressure Alt = 6000ft
What is the T	Cakeoff Distance (Ground Roll)?
What is the T	Cakeoff Distance (Clear a 50ft Obst)?
What is the M	Max Rate of Climb (FPM)?
What is the L	Landing Distance?

Emergency Procedures

List the steps for each emergency

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Engine Failure During Flight
1.
2.
3.
4.
5.
6.
Engine Fire in Flight
1.
2.
3.
4.
5.
6.
Cabin Fire
1.
2.
3.
WARNING –
4.

Fire During Start on Ground
1.
If engine starts:
2.
3.
If engine fails to start:
4.
5.
6.
7.
8.
a.
b.
c.
9.
10.
Landing with a Flat Main Tire
1.

2.

Over-Voltage Light Illuminates
1.
2.
3.
4.
5.
If over-voltage light illuminates again:
6.
Ammeter Shows Discharge 1. 2. 3.

Regulations What preflight actions are required before a flight not in the vicinity of an airport? Before any flight? How do you determine if inoperative equipment is required for your flight? What are the limitations for consuming alcohol and flying? What altitude should you fly when operating in level cruise above 3,000ft AGL?

What documents are you required to have in your possession when acting as PIC?

What documents are required to be on board the aircraft?

When are the PIC and passengers required to wear a safety belt/Shoulder harness?
What is the minimum altitude you can fly over congested areas? Non-congested areas?
Who has the final authority & responsibility for the operation of the aircraft?
What are the minimum fuel requirements for Day VFR flight? Night VFR flight?
List at least 3 situations when it would be advisable / necessary to conduct a Go-Around? What is the procedure for a Go-Around?

Home Airport Draw Diagram of KSQI runways (include runway lengths and numbers): What is traffic pattern altitude for KSQI?

List the following frequencies at KSQI:

What airspace is KSQI?

MISCELLANEOUS

Why is it necessary to drain fuel from the	fuel sumps? Whe	en should this be done?	
Will the engine run with the master switch	h turned off? Why	y?	
Do you need your logbook in your posses	ssion when you fly	y solo? Why/Why not?	
If the altimeter setting is not available at a on a local flight?	an airport, what se	etting should you use before departi	ng
When two aircraft of the same category at turn to avoid the other aircraft?	re converging hea	d-on, which way do you	
Instructor:	Instructor Signatu	ıre:	
Student Signature:	Score:	Corrected to:	
Date of Review/Logbook Endorsement:			