

## VFC INITIAL & ANNUAL CHECK RIDE EXAM – 1 NOVEMBER 2020 – 30 NOVEMBER 2021

Pilot: \_\_\_\_\_

Instructor: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_/50 = \_\_\_\_\_%

- 1.2 The 172SP's useable fuel capacity is \_\_\_\_\_ USG, or \_\_\_\_\_ pounds. (POH 1-5)
- 2.1 The 172SP has \_\_\_\_\_ fuel drains. Which VFC 172SP only has 12? (POH 7-27A/7-27B) \_\_\_\_\_
- 3.1 The acceptable RPM range for a full throttle static run-up is \_\_\_\_\_ RPM. (POH 2-5, 4-24)
- 4.2 The maximum acceptable RPM drop per magneto is \_\_\_\_\_ RPM and the maximum permissible differential between magnetos is \_\_\_\_\_ RPM. (POH 4-15)
- 5.1 The RPM limit for take-off and continuous operations is \_\_\_\_\_ RPM. (POH 2-5)
- 6.1 The maximum allowable takeoff weight for the C-172S is \_\_\_\_\_ pounds. (POH 1-6)
- 7.3 Calculate a Weight & Balance for C-FGIM using the following weights and the supplied VFC W&B Form (AIM RAC 3.5.7, POH Section 6):
- a. pilot – standard summer adult male; co-pilot standard summer adult female;
  - b. rear passengers – one standard summer 9 year old, one standard summer GenderX;
  - c. full fuel load.
- Is this aircraft legal to fly? \_\_\_\_\_ If not, how can it be made legal? \_\_\_\_\_
- 8.3 After engine start how should you lean for ground operations, including taxi? (POH 4-21)  
\_\_\_\_\_  
\_\_\_\_\_
- 9.3 What is the "Recommended Starter Duty Cycle"? (POH 4-20) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 10.2 Of our fleet only SDZ, TDK and XTZ possess a fuel return system, which was a design change to promote smooth engine operation on the ground during hot weather. How does it work? (POH 7-24, 7-27A/7-27B) \_\_\_\_\_  
\_\_\_\_\_
- 11.5 What is the proper procedure for starting a flooded engine? (POH 4-12, 4-13) \_\_\_\_\_  
\_\_\_\_\_
- 12.2 Why is there a separate starting sequence for starting a warm engine and how can you determine if this starting sequence should be carried out? (POH 4-12, 4-13) \_\_\_\_\_  
\_\_\_\_\_
- 13.2 ATIS or Tower reports the winds as '120° @ 15 gusting 18'. The runway 09 headwind component is \_\_\_\_\_ knots and the crosswind component is \_\_\_\_\_ knots. (POH 5-13)
- 14.0 What is your personal 90° maximum crosswind capability? \_\_\_\_\_

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- 15.1 You are flying from CYYJ to CAP3 and plan VFR direct from Separation Point to Sechart. Assuming zero wind, what is the minimum appropriate VFR altitude required to remain within gliding distance of land? (CARs 602.34, POH 3-14) \_\_\_\_\_
- 16.2 Using the adjusted takeoff weight from question 7, assuming Pressure Altitude is "S.L.", calculate the Short Field Takeoff Distance Ground Roll \_\_\_\_\_ and Total Distance to Clear a 50' Obstacle \_\_\_\_\_ at CYYJ with a temperature of 25°C. (POH 5-16)
- 17.2 What is your calculated Short Field Landing Distance at CYRV, with an altimeter reading of 28.52" Hg and a temperature of 35°C? (POH 5-23, hint: convert "current altimeter to PAlt") Ground Roll \_\_\_\_\_ and Total Distance to Clear 50' Obstacle \_\_\_\_\_
- 18.2 At 6500 PAlt, what is the C-172S Range & Endurance at 65% BHP? (POH 5-21, 5-22)  
Range: \_\_\_\_\_ NM Endurance: \_\_\_\_\_ Hours
- 19.2 What is your anticipated KTAS and Fuel Consumption at 4000 PAlt, with an OAT of 10° above standard, with a cruise power setting of 2400 RPM? (POH 5-19) \_\_\_\_\_ KTAS; \_\_\_\_\_ GPH
- 20.1 The penalty for entering a Control Zone without a clearance or a Mandatory Frequency area without establishing two-way contact is:
- subject of a Civil Aviation Daily Occurrence Report (CADORS);
  - a temporary license suspension;
  - a monetary fine; or
  - all of the above.
- 21.3 A takeoff clearance from CYYJ Inner Tower clears you to climb to and level off at an altitude of \_\_\_\_\_ feet. Climbing through \_\_\_\_\_ feet, you must switch to \_\_\_\_\_ MHz on Outer Tower in order to receive clearance to climb higher.
- 22.2 You are assigned the "Stuart Island Departure" on a VFR flight plan from CYYJ to CYXX. While enroute between Stuart and East Point, do you require an ATC clearance, and if so, from whom? \_\_\_\_\_
- 23.1 On arrival at CYXX you taxi to the Abbotsford Shell Aerocentre and request 15 USG per side by truck. You are asked to convert the request to Liters. You then ask for \_\_\_\_\_ L per tank.
- 24.4 Upon returning to Victoria from a cross country you receive an arrival route from Victoria Outer Tower on \_\_\_\_\_ MHz. You are required to maintain an altitude of \_\_\_\_\_ ASL. If you are unable to contact Inner Tower on \_\_\_\_\_ MHz you are expected to \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 25.2 Prior to entering the MF at CYBL, noting that the FSS is active, you broadcast your intentions to "Campbell Radio" on \_\_\_\_\_ MHz. You receive no response. What should you do?  
\_\_\_\_\_  
\_\_\_\_\_



# TAKE OFF WEIGHT & BALANCE

	WEIGHT	ARM	MOMENT
BASIC			
PILOT			
REAR			
BAGG	C-FGIM		
BAGG	BEW	1665.51	lbs
BAGG	Arm	39.81"	
BAGG	Moment	66299.84	
BAGG	Useful Load	884.49	
BAGG	NATOW	2550.0	lbs

WEIGHT ARM MOMENT

BASIC	PILOT	REAR	BAGG	BAGG	ZERO	FUEL	LAND
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# VICTORIA FLYING CLUB CESSNA 172 SP WEIGHT & BALANCE

