

VICTORIA FLYING CLUB
NIGHT RATING QUESTIONS

Name: _____

Instructor: _____

Date: _____

These questions are meant to enhance your understanding and increase your Pilot Decision Making skills as you progress toward your Night Rating. Once you've completed these questions return them to you instructor, who will mark them and debrief you. This exam will be attached to your Night Rating PTR and retained on your VFC file. Ask your instructor for a copy of your completed exam for your own future reference.

This is an open book exam. Note that on all questions you are provided with the applicable reference.

1. Define the term "night". (FTGU, pg. 108) _____

2. An aerodrome beacon is used to assist pilots in locating the aerodrome at night. What is the flashing speed for both rotating beacons and flashing beacons? (AIM, AGA 7.2) _____

3. What colour are taxiway lights and what is the space interval between them? (AIM, AGA 7.10.1) _____

4. The intersection of a taxiway and a parking apron is indicated by _____ lights at the taxiway / apron corner. (AIM, AGA 7.10.1)
5. Aircraft operating at night require a functioning navigation light system. What is the required night lighting for an aircraft? (FTGU, pg. 109) _____

6. What instrumentation is required to operate a VFC aircraft at night? (CAR 605.14, 605.16)

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7. What is the weather minimum for Night VFR flight in uncontrolled airspace? (CAR 602.115)

8. How long does it normally take for your eyes to adjust to darkness? (FTM, pg. 178) _____

9. It is a moonless night, overcast at 4000' and you are conducting night circuits on runway 09, Victoria. What instrument(s) can you use to supplement your visual reference before losing sight of the runway and flying into the black hole towards Sidney and San Juan islands? (FTM, pg. 179) _____

10. What is "Somatogravic – False Climb Illusion", and why is it dangerous, especially when conducting night circuits as per question 9? (FTGU, pg. 316) _____

11. Again, in relation to question 9, what is "Black Hole Illusion" and what airport lighting system can be used to counter this phenomenon? (FTGU, pg. 316) _____

12. Which of the following, in even minor amounts, can impair your night vision: (AIM, AIR 3.2.1)

- a. Hypoxia;
- b. Hyperventilation;
- c. Carbon Monoxide.

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13. When flying at night supplementary oxygen should be used above _____ feet to avoid depriving the eye of oxygen. (FTGU, pg. 313)

14. What technique is recommended to enhance the ability of the rods in your eyes to enable you to see sufficiently at night? (FTGU, pg. 313) _____

15. You notice lights from another aircraft in front of you. Which light would be on your right if the aircraft was coming directly at you? (FTGU, pg. 109) _____

16. What are the flight training requirements for the Night Rating? (CAR 421.42(1)(a)) _____

17. In order to carry passengers, the holder of a Night Rating must have completed _____ night takeoffs and landings within the previous six (6) months. (CAR 401.05(2)(i)(B))

18. Once one has obtained a Night Rating is a check ride required with an instructor to renew their currency? (CAR 401.05(2)(b)(i)(B), 401.43) _____

19. What are the fuel requirements for a Night VFR flight? (AIM, RAC 3.12.1(a)(ii)) _____

20. What is your personal Night VFR fuel reserve requirement in time and USG (approx.)?

21. CYYJ, and many other aerodromes, have ARCAL (Aircraft Control of Aerodrome Lighting) systems to turn on aerodrome lighting for use at night. When the CYYJ Tower is closed, or in the case of an airport such as Qualicum Beach (CAT4), what type of ARCAL system is fitted and how do you, as a pilot, control it? (CFS, GENERAL SECTION – LIGHTING; AERODROME / FACILITY DIRECTORY) _____

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22. What are the two differences regarding the conduct of circuits at CYYJ at night compared to day? (CFS – VICTORIA INTL VFR TERMINAL PROCEDURES CHART – NIGHT CIRCUIT PROCEDURES) _____

23. Can you do circuits on any of the runways at CYYJ at night? (SAME REFERENCE AS Q 22)

24. You are flying to Abbotsford (CYXX) at night via the Stuart Island Departure. What three navigational facilities could you use to assist in your navigation? (VTA; CFS AERODROME / FACILITY DIRECTORY CYXX) _____

25. You are unfamiliar with the Chilliwack airport (CYCW) and are arriving at night. What lighting systems are fitted at CYCW and what particular lighting system could you use to assist you if you are concerned with obstacle clearance on approach? (CFS, GENERAL SECTION – LIGHTING; AERODROME / FACILITY DIRECTORY – CYCW) _____

26. What are the published boundaries for VFC aircraft for night flights? (VFC Policy and Procedures Manual, 27 Oct 2018, Section 5.3.19 – Night Flying Limitations) _____

27. What is the VFC policy for night circuits? (VFC Policy and Procedures Manual, 27 Oct 2018, Section 5.3.20 – Noise Abatement) _____

28. What is the major difference between requesting Special VFR during daylight and at night? CAR 602.117 (2) (d) _____

29. You are conducting a cross-country and plan to land and takeoff at CAT4. What are the year-round, local time, operating hours of the Qualicum Beach airport? (CFS – GENERAL SECTION – TIME ZONE FACTOR; AERODROME / FACILITY DIRECTORY – CAT4) _____

30. You are conducting a night flight over downtown Victoria. What time does “Harbour Radio” close? Convert your answer to local time, year-round. (CFS – GENERAL SECTION – TIME ZONE FACTOR; AERODROME / FACILITY DIRECTORY – CYWH) _____
