AIRPLANE QUESTIONNAIRE

Name: _____ Grade: _____ CAPID: _____

Unit: _____ Date: _____

Check Pilot: _____ Grade: _____ CAPID: _____

Score: _____ Type/Model Aircraft: _____

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

1. Approved fuel grades and colors are: _____

2. Location/capacity of each fuel tank is: _____

3. Total usable fuel under all flight conditions is _____ gallons.

4. Endurance at 75% power, 7,500-foot MSL, with a 1-hour reserve is _____ hours.

5. What make and grade oil is used?   Winter: _____   Summer: _____

6. Oil capacity is _____ quarts. Minimum oil quantity for take off is _____ quarts.

7. Minimum oil pressure is _____ psi. Maximum oil pressure is _____ .

8. Maximum oil temperature is _____ degrees (F or C) _____ .

9. Magnetos are checked at _____ RPM. RPM drop should not exceed _____ RPM on either magneto or _____ RPM differential between magnetos.

10. Maximum RPM and MP for takeoff are _____ and _____ in/Hg.

11. Maximum gross takeoff weight is _____ pounds. Empty weight is _____ pounds. Useful load is _____ pounds. Maximum landing weight is _____ pounds.

12. Baggage compartment locations/weights are: _____

13. Give the IAS at maximum gross weight for:

    a. Va (maneuvering speed).   e. Vx (best angle of climb, sea level).
    b. Vso (stall, landing config, power. off). _____   f. Vmc (minimum control speed – multi-engine only).
    c. Vs1 (stall, cruise config, power. off). _____
    d. Vy (best rate of climb, sea level).   g. Best glide speed. _____

14. Give the immediate action/memory items for:

    a. Engine failure immediately after takeoff.

    b. Fire during cranking and engine fails to start.

    c. Engine fire in flight.

    d. Electrical fire in flight.

15. Normal takeoff flap setting is _____ , short field takeoff setting is _____ , and soft field takeoff flap setting is _____ .

16. Maximum demonstrated takeoff/landing crosswind component is _____ knots.

17. Given: PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved,   level, and dry; aircraft is at maximum takeoff weight.

    Find: Total takeoff distance to clear a 50-foot obstacle: _____

18. Given: PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.

    Find: Total landing distance to clear a 50-foot obstacle: _____

19. Landing runway 22; wind 190o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? _____