TRINIDAD TB-20

1. The engine's rated horsepower at sea level is _____.
    a. 250
    b. 200
    c. 180
    d. 275
2. The usable fuel capacity is _____ US gallons.
    a. 86.2
    b. 88.8
    c. 52
    d. 75.2
3. Maximum oil capacity and minimum safe quantity for the IO-540 engine is _____ quarts.
    a. 8, 6
    b. 6, 3
    c. 10, 4
    d. 12, 9
4. During preflight inspection the fuel tanks should be ***visually*** checked to insure the required amount of fuel for the planned flight is aboard:
    a. True
    b. False
5. When starting a flooded engine, the mixture control should be in what position?
    a. Doesn't Matter
    b. Full Rich
    c. Idle Cut-Off
    d. Half Lean
6. Check the magnetos during run-up at _____ RPM. Differential drop should not exceed _____ RPM while max drop on either magneto is _____ RPM.
    a. 2000/50/50
    b. 1700/75/125
    c. 1800/50/150
    d. 2000/50/175
7. The stall warning horn is typically activated at:
    a. 10-20 knots above stall speed
    b. Stall speed
    c. 5-10 knots below stall speed
    d. 5-10 knots above stall speed

8. With flaps and gear retracted, power at idle, and maximum gross weight, the aircraft should stall at _____ KIAS with 0° bank and _____ KIAS at 30°.
    a. 70, 75
    b. 80, 75
    c. 65, 75
    d. 55, 65
9. The mixture should always be leaned during cruise at 75% power or less
    a. True
    b. False
10. The procedure for flying in turbulent air is as follows:
    a. Maintain fastest speed possible.
    b. Slow to below maneuvering speed and maintain altitude.
    c. Slow to below maneuvering speed and maintain level pitch attitude.
    d. Don't fly in turbulent air.
11. Final approach speed is _____ KIAS.
    a. 73 KIAS
    b. 85 KIAS
    c. 80 KIAS
    d. 70 KIAS
12. The fuel selector should be on _____ fuel tank(s) prior to landing.
    a. The Left
    b. Both
    c. The Fullest
    d. The Right
13. For a normal takeoff, allow the aircraft to accelerate to _____ KIAS, then ease back on the control wheel to establish the approximate pitch attitude for climb at _____ KIAS.
    a. 68/75
    b. 50/60
    c. 40/50
    d. 65/73
14. The electric fuel pump should be "on" for the following operations:
    a. Engine Starting Procedure
    b. Takeoff
    c. Landing
    d. Switching of fuel tanks in-flight
    e. All of the Above

15. Maximum gross weight and maximum baggage weights are _____ and _____, respectively.
    a. 2550/200
    b. 3086/143
    c. 2943/150
    d. 2325/200
16. The flap positions are _____ for operation and _____ to be used as an entrance step.
    a. 10/20/30 and half down
    b. 10/15/30 and full down
    c. Take off (10°/Landing (40°), and not
    d. 10/20/40 and makes no sense
17. The electrical system includes a _____ volt battery and a _____ volt, _____ amperes alternator.
    a. 24/28/70
    b. 12/14/60
    c. 28/28/70
    d. 12/12/30
18. The Never Exceed speed, maximum structural cruising speed are:
    a. 187 KIAS 150 KIAS
    b. 189 KIAS 130 KIAS
    c. 151 KIAS 129 KIAS
    d. 190 KIAS 175 KIAS
19. The maneuvering speed for a 3086 lb. aircraft is _____ KIAS.
    a. 125
    b. 129
    c. 132
    d. 147
20. Gear extension and operating speeds are _____.
    a. The same, extension is 120 mph (CAS) and operating speed is 120 mph (CAS)
    b. The same when the aircraft is at or above 2,000 feet.
    c. Different, extended limit is 139 knots (KIAS) and operating speed is 129 knots (KIAS)
    d. Equal to the Vne speed; high performance aircraft do not have gear speed restrictions.
21. Oil pressure limits are _____ PSI minimum and _____ PSI maximum.
    a. 12.5 and 29
    b. 15.0 and 50
    c. 45 and 80
    d. 25.0 and 100

22. Fuel pressure operating range is _____ PSI.
    a. 0.1 to 8
    b. 1.0 to 8
    c. 1.0 to 6
    d. 0.1 to 10
23. During ground handling, be certain **NOT** to _____ or _____.
    a. Turn the nose gear beyond its steering radius, tow when the controls are secured
    b. Tow with ropes unless positioned low on the wheels; have a fully qualified pilot in the seat
    c. Push on the inboard edges of the propeller blades, back the aircraft without a spotter
    d. Pull forward by use of a tow bar alone, refuel before setting parking brake.
24. What cruise performance for best power is under the following conditions

    O.A.T.: 40°F
    PWR: 65%
    Pressure ALT: 6000

    a. 140 TAS
    b. 160 TAS
    c. 150 TAS
    d. 130 TAS
25. Find Center of Gravity from the following conditions:

	Weight	**Arm**	**Moment**
Aircraft	1903.37	38.96	74125.43
Pilot/PAX	350 lbs	45.38	
Rear PAX	200 lbs	80.00	
Full Fuel		42.70	
Baggage	100 lbs	102.54	

    a. 45.1
    b. 41.4
    c. 46.5
    d. 43.5
26. Are touch and goes permissible in an Aero Club owned complex aircraft (See AFMAN34-232)?
    a. True
    b. False