



TANDEM (SIGMA) RATING ONLINE EXAM SAMPLE QUESTIONS

EQUIPMENT

1. What type of AAD can be used on a Tandem rig?
2. What should you do if your CYPRES doesn't end up on "0" during self-test?
3. At what approximate height is a Tandem CYPRES set to fire?
4. What items of equipment are inspected prior to every jump?
5. The Vector Skyhook system relies on what?
6. When the Skyhook is fitted to the Vector system, the RSL must also -
7. What is the purpose of the locking pin on the drogue bridle?
8. What problems might a loose or missing disk pin attachment screw cause?
9. What might happen if you use a disk with a sharp nick in it?
10. According to UPT recommendations, how often should the 3 ring-release systems on tandem equipment be maintained and inspected?
11. What direction should the main closing pin be inserted in the closing loop?
12. What might happen if the main closing pin is inserted from the wrong direction?
13. What would happen to the pull force if twists were packed into the ripcord below the pin?
14. What would sticking the ripcord pin under the disk flange do to the pull force?
15. What might happen if you trap the drogue bridle, above the disk, under the closing loop?
16. What length of kill line should be visible above the grommet when the drogue is collapsed?
17. What would happen if the kill line were not attached to the #5 link at the top of the main deployment bag, or the kill line were to break during deployment?
18. What are the negative consequences of the situation described above?
19. What problem can occur if the kill line is too long?
20. What problem can occur if the kill line is too short?
21. What didn't you do, if the drogue bridle between the disk and the bag is not scrunched up prior to closing the container?
22. What is the correct length for the closing loop on the SIGMA Tandem system?
23. Where are the main wear points on the UPT Tandem harness?
24. What is the main purpose of the drogue?
25. How often should the drogue be calibrated?
26. What is the purpose of the drogue set limiter tape?
27. Does unwinding brake line twists reduce the possibility of tension knots?

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28. What is the purpose of having primary and secondary toggles on the UPT main risers?
29. Explain the use of the double brake system on the Vector canopies.
30. Explain the correct way to pull your reserve or breakaway handles free of their Velcro pockets.
31. Explain the negative consequences of loose passenger side attachment straps.
32. If you find part of your tandem parachute system unserviceable or un-airworthy, you should -

EMERGENCIES & MALFUNCTIONS

1. Which best describes the correct aircraft emergency procedure below 1,500 feet?
2. Which best describes the correct aircraft emergency procedure between 1,500 feet and 4,000 feet?
3. Which best describe the correct aircraft emergency procedure above 4,000 feet?
4. What should you do if you accidentally pull your Sigma drogue release handle in the aircraft?
5. If a side spin develops on exit, you should -
6. What would you do if your main container opened on exit, before you'd thrown the drogue?
7. What should you do if you can't pull the drogue from its pouch after several attempts?
8. What should you do if you accidentally pull the drogue release handle before you deploy the drogue?
9. What should you do if one drogue release handle is pulled and the drogue does not release?
10. What might happen if you hold on to the drogue for a second or two after pulling it out of the pouch, instead of throwing it briskly to the side?
11. What might happen if you deploy a drogue which had not been set properly during packing?
12. Can a reserve be deployed when under a drogue in tow?
13. What would you do if your drogue became entangled with the aircraft, leaving you and your passenger suspended from the aircraft?
14. What should you do if the drogue bridle wraps around your legs during drogue deployment? What is your terminal velocity with this malfunction?
15. What should you do if the drogue canopy wraps around your legs during drogue deployment? What is your terminal velocity with this malfunction?
16. What is your first response if you throw the drogue and it doesn't inflate? What is your terminal velocity with this malfunction?

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17. What is the correct response to an inflated drogue in tow (assuming you have already pulled both drogue release handles)? What is your terminal velocity with this malfunction?
18. What would you do if your main container opened unexpectedly during drogue fall?
19. What is your first response if the drogue becomes entangled with your fully open canopy?
20. Describe the correct breakaway procedure from a partial malfunction.
21. After an uneventful canopy opening, you release the brakes only to discover that a steering line has broken. What do you do?
22. If your tandem main canopy opens with line twists, your first response should be -
23. If you find you are facing another canopy as your tandem main canopy deploys, the safest way to turn away from the possible collision is -
24. What would you do if your left shoulder was dislocated and you needed to pull your reserve?
25. At 400feet AGL, you are struck from behind and above by another jumper, causing the canopies to become entangled. What would you do?
26. You end up having to land off the PLA. Your new intended landing point is in a clear paddock on the side of a hill. The wind direction is blowing directly up the hill. What should be your landing direction?
27. Is it possible to safely land your tandem canopy on half brakes?

RULES & REGS

1. What is the maximum weight limit for tandem passengers?
2. What is the maximum permitted exit weight (lbs) on the SIGMA system equipped with a PD360 reserve canopy and SIGMA Tandem main canopy?
3. What is the minimum age for tandem passengers in NZ?
4. What is the minimum planned exit altitude for tandem jumps?
5. What is the NZPIA's maximum exit altitude for tandem descents?
6. What is the minimum main activation altitude for tandem descents?
7. What is the minimum recommended altitude to cut away from a tandem main malfunction?
8. The maximum ground wind speed for tandems is -
9. What are the minimum requirements for a camera person to be able to film with a tandem?
10. What are the minimum requirements for a Tandem Master to use a hand-cam?
11. Tandem Masters who are using a hand-cam must also have -
12. When must an altimeter be worn?

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13. Non-traditional flying and intentional delayed drogue deployments (excluding certification jumps with an Assessor) are permissible when?
14. When is it permissible to use a Strong passenger harness with a Sigma Tandem Harness?
15. Are you allowed to use a tandem system with a single drogue release?
16. What qualification must the first five passengers during the probationary period have?
17. Currency requirements for NZPIA Tandem Ratings are?
18. A Tandem Master who has not made a tandem jump in the preceding 90 days must -
19. A Tandem Master who has not made a tandem jump within the preceding 6 months must -
20. If you haven't made any jumps on a Strong system in over a year, you must -
21. How often must Tandem Master competency/proficiency checks be carried out?

OPS

1. When adjusting the passenger harness, the key to proper fit and comfort is what?
2. Why must the tandem passenger wear a soft type helmet?
3. What circumstances require extra landing training for a passenger?
4. What are some good ways to make a passenger feel at ease during the climb to altitude?
5. When must a tandem master be fully attached to his/her passenger in the aircraft (assuming NO restraints are fitted to the aircraft)?
6. Hook up checks should be carried out when?
7. Care must be taken to protect what during the climb out?
8. Why is it important to check your drogue at the door just prior to jumping?
9. Normal drogue-fall terminal velocity (340 lbs.) is _____. It takes _____ seconds to fall 1,000 feet at this speed.
10. Normal tandem freefall terminal velocity without a drogue (340 lbs) is _____. It takes _____ seconds to fall 1,000 feet at this speed.
11. When is the usual time to deploy the drogue after exit?
12. Should the Tandem Master use the drogue to get stable?
13. A drogue is deployed after 20 seconds of tandem free fall, how long will it take to slow the tandem down to 120 mph?
14. What are some causes of an unstable exit?
15. Why is a stable exit advisable with a first time tandem passenger?
16. After deploying the drogue, the Tandem Master does what?
17. What is the proper passenger body position on exit?
18. What happens if a passenger's knees are tucked up toward his/her chest during drogue-fall?

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19. Why are handle checks important?
20. What is the correct handle sequence for tandem equipment?
21. Post-deployment equipment checks should include -
22. Why is it unwise to reach in front of a student to bring his/her arms into the correct free fall position?
23. Why is it unwise to show a student your wrist mounted altimeter in freefall?
24. What should you feel immediately after pulling the drogue release handle?
25. How long should this sensation last?
26. Explain the sequence of events after the drogue release handle is pulled while trailing a normally inflated drogue.
27. What can be done to make your passenger more comfortable after opening?
28. In what circumstances is the use of a canopy catcher warranted?
29. Conditions are windy and you are going to land well away from the DZ and catchers. You should -
30. You have exited the aircraft upwind further than normal, and there is a chance that you may not reach the intended landing area. You should -
31. The PLA is surrounded by obstacles of trees and buildings; careful flight and concentration are required to land in the PLA. The obstacles that you can't see on first glance may include -
32. Why is it important to ensure your canopy and drogue are not dragged?
33. Why is it important to have set procedures in tandem jumping?