

**NSRCA JUDGING PROGRAM
FAI F3A RULES TEST**

1. FAI maneuvers are scored from ten to zero in whole number increments. (Section 5.1.8)
2. During the flight something falls from the aircraft. The judges should: (5.1.12)
 - A. Zero the flight.
 - B. Cease scoring.
 - C. Cease scoring and instruct the pilot to land the aircraft immediately.
 - D. Zero the remaining maneuvers, but score the landing.
3. The principles applied to scoring are precision, smoothness or gracefulness, position, and size. Of these, precision is the most important.(5B.2)
4. One point should be subtracted for each approximate 15 degrees of deviation from defined maneuver geometry. (5B.5)
5. The flight path (track) of an aircraft is: (5B.5)
 - A. Its heading.
 - B. The direction of the fuselage centerline (attitude).
 - C. The trajectory of its center of gravity.
6. Judging of the geometry of maneuvers is based on the track of the aircraft.
7. All aerobatic maneuvers are started and ended with a: (5B.7.1)
 - A. Straight line.
 - B. Horizontal line.
 - C. Wing wiggle.
 - D. Pilot or helper calling the beginning and end.
8. When no line is flown between two maneuvers, the maneuver just performed is downgraded 1 point and the upcoming maneuver must be downgraded 1 point(s). (5B.7.1)
9. The length of a line should be considered in the score if: (5B.7.1)
 - A. The aircraft is under powered and the maneuver is flown with short lines.
 - B. The aircraft draws long lines throughout the maneuver.
 - C. There are several lines with a given relationship within a maneuver.
10. A maneuver contains a roll placed on a line. The length of the lines before and after the roll must be equal. (5B.7.1)
11. Loops must have a constant radius and be flown in the vertical plane. (5B.7.2)
12. Clearly seen segmentation (flats) in loops should be downgraded 1 pt. (5B.7.2)
13. Slight differences in the radius of part loops within a maneuver should be downgraded 1 point. Major differences should be downgraded 2-3 pts. (5B.7.2)
14. All rolls, or part rolls, must have crisp and well-defined start and stop. 1 point is deducted for each ill-defined start or stop. (5B.7.3(b))

15. Point rolls must hesitate with equal time on each point and demonstrate constant roll rate. (5B.7.3)
16. If a point (hesitation) of a point roll is missing, or an extra point is present the downgrade is 1 pt. per 15 degrees 5.3.7.3.d
17. The lines in a stall turn maneuver: ()
A. Must have vertical and horizontal flight paths (track) until approaching the stall
B. Containing roll(s) must have roll(s) in the middle of the vertical lines.
C. As long as the top of the box is not exceeded, The length of the vertical line is not a judging criteria.
D. Drift of the model aircraft during the stalled condition must be ignored, provided the model aircraft does not drift outside the aerobatic zone.
E. All of the above.
18. During a stall turn the aircraft demonstrates a pendulum movement. The downgrade is 1 pt. (5B.7.4)
19. In a stall turn the model does not pivot around the CG but the pivot is within ½ wingspan. The maneuver should be downgraded 1 point(s)? If the radius of pivot is 2 or more wing spans the maneuver is considered a wing-over and the score should be a 0? (5B.7.4)
20. During the initiation of a snap roll, the aircraft must demonstrate a definite break. (5B.7.5)
21. The aircraft must be stalled throughout a snap roll. (5B.7.5)
22. An aircraft returns to an un-stalled condition during a snap roll. The maneuver is severly 5 or more points downgraded. (5B.7.5)
23. During a spin entry the nose drops as the aircraft stalls, simultaneously the wing drops in the direction of the spin. (5B.7.6)
24. If the aircraft fails to stall or is snap rolled into the spin the score is zero. (5B.7.8)
25. A near vertical downline of visible length must be held after spin rotation stops. (5B.7.6)
26. In an Immelman turn, a line flown before the half roll should be downgraded 2 pts. (5B.7.7)
27. Half, and Half-Reverse Cuban 8's should be flown with the radius of the 1/8 loop the same as the 5/8 loop. (5B.7.7)
28. A Rolling loop is flown with the top and bottom loops round; the half rolls must be integrated with the loops. (5B.7.7)
29. During a one roll rolling loop the following must occur: ()
A. The loop must be round.
B. The roll must be constant.
C. The wings are in the plane of the loop at 3 and 9 o'clock positions.

30. All maneuvers are required to be wind corrected in such a way that the shape of the maneuver is preserved by the aircraft's track. (5B.8)
31. Center maneuvers that are displaced should be downgraded according to the misplacement in the range of 1-4 points. (5B.9)
32. The downgrades for flying a small part of a maneuver beyond the 60° boundaries should be 1 pt. (5B.9)
33. The downgrade for flying most of the maneuver beyond the 60° boundaries should be 3 or more pts. (5B.9)
34. Box violations that occur near the 150-meter line should be downgraded much less severely. (5B.9)
35. It may be appropriate to fly a large aircraft on a line 175 meter in front of the judges. (5B.9)
36. Maneuvers performed on a line greater than 175 meters should be downgraded and maneuvers flown in excess of 200 meters must be severely downgraded. (5B.9)
37. When appropriate, entry and exit of center maneuvers will be at the same altitude. ()
38. The entry and exit altitudes of turnaround maneuvers may be different. True / False (5B.9)
39. In asymmetrical rolling maneuvers beginning with a snap roll and followed by another rolling element, the hesitation between elements should be brief. ()
40. A Reverse Top Hat must always be flown with the horizontal leg inverted.
41. During reverse spins, the reversal must be immediate. (5B.7.9)
42. A Rolling Circle must demonstrate these qualities: (5B.7.8)
 A. Constant roll rate.
 B. Constant radius of circle.
 C. Entry and exit at same point.
43. You notice that there is no place on the FAI Score Sheet for takeoffs and landings. This is an error and takeoff and landing should be scored 0 or 10. True / False (5B.7.9)
44. The first radius of a maneuver defines the radii for all others in a maneuver. True / False (5B.7.2)
45. For snaps, if the stall/break does not occur and the model aircraft barrel-rolls around, the manoeuvre must be severely downgraded (more than 5 points). Similarly, axial rolls disguised as snap-rolls must be severely downgraded (more than 5 points). True / False (5B.7.5)

46. The pilot landing in the opposite direction of takeoff. The entire flight should be zeroed because the sequence was disrupted. True / **False** (5A.1.13)
47. **Rolling Circles** may be performed out to 350 meters without downgrade. **True** / False (5B.7.8)
48. FAI F3A rules require that the Take-off, Landing, box entry, and box exit be called by the flyer or helper. True / **False**
49. Scoring is to cease 8 minutes after the pilot is given permission to start the aircraft's engine. (5.1.12)
50. An accurate standard of judging is very important. Being consistently high or low is unacceptable if the scores are not a fair reflection of the maneuver performed. (5B.3)