

## USA Swimming Officials Re-Certification Test 2001/2002

### Timing Judge

#### Multiple Choice/True-False

- [1] The Timing Judge shall:
  - a. determine the official order of finish.
  - b. only look at watch times when there is no pad or button times on a lane.
  - c. notify the referee when a time obtained by the primary timing system cannot be used as the official time.
  - d. all of the above.
- [2] When the primary timing system consists solely of watches, a backup system must still be provided for all competitors to determine the official time.
  - a. True.
  - b. False.
- [3] The following official decides whether or not there is a malfunction of the primary timing system:
  - a. Timing Equipment Operator.
  - b. Timing Judge.
  - c. Chief Timer.
  - d. Referee.
- [4] In a timed finals meet, when official times in different heats are identical to the 100<sup>ths</sup>, the final order of finish shall be determined by:
  - a. a swim-off.
  - b. place judges.
  - c. declaring a tie.
  - d. flipping a coin.
- [5] If the primary timing system is either automatic or semi-automatic but is started late, it may be used to determine the order of finish.
  - a. True.
  - b. False.
- [6] The official time cannot be determined if only one watch or button time is available.
  - a. True.
  - b. False.
- [7] The Timing Judge should check for a possible primary timing system error when:
  - a. an official reports a late or missed touch.
  - b. there is more than 0.20 second difference between the primary system time and the backup times.
  - c. both primary and secondary times are exactly the same, to the 100<sup>ths</sup>, on any lane.
- [8] Judging shall only be used to change the order of finish if:
  - a. the swimmers competed in the same heat.
  - b. times obtained from properly operating automatic timing equipment are not available.
  - c. both place judges determine a different relative order of finish and make a written record.
  - d. all of the above.
- [9] When automatic equipment is used and two swimmers tie to the 100<sup>th</sup> of a second, the 1000<sup>ths</sup> may be used to break a tie.
  - a. True.
  - b. False.

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[10] When automatic equipment is used that reports times to 1000<sup>ths</sup>, the final digit is dropped and the time recorded to 100<sup>ths</sup>.

- a. True.            b. False.

[11] The correction factor applied to the primary times when a malfunction equally affects an entire heat is the simple average of the total time difference between the primary times and the valid back-up times of each swimmer in a heat.

- a. True.            b. False.

[12] When automatic equipment is used, a potential malfunction exists if there is a difference of 0.30 seconds or more between the primary and secondary times for any lane.

- a. True.            b. False.

[13] When a malfunction in the primary system is confirmed for a single lane, the secondary time is used as the official time.

- a. True.            b. False.

[14] Fill in the official times, noting the lane malfunction.

Primary System - Automatic

Secondary system - Semi-automatic, 3-buttons

Tertiary system - Manual, one watch

LANE	PRIMARY PAD TIME	BUTTON A	BUTTON B	BUTTON C	WATCH TIME	PAD MINUS MIDDLE BUTTON	OFFICIAL TIME
1	53.75	53.79	53.65	53.48	53.55		
2	54.19	54.03	54.08	54.01	54.00		
3	54.29*	53.49	53.46	53.47	53.45		
4	53.35	53.28	53.25	53.20	53.17		
5	52.92	52.83	52.78	52.68	52.74		
6	52.95	52.90	52.87	52.91	52.85		
7	54.10	53.96	53.81	53.91	53.85		
8	54.12	54.04	54.02	53.97	53.94		

\* Timers report a late touch.

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[15] Fill in the official times and placement for a heat malfunction in the following situation:

Primary System - Automatic (late manual start confirmed)

Secondary system - Semi-automatic, 3-buttons (button times invalid)

Tertiary system - Manual, one watch

LANE	PRIMARY PAD TIME	WATCH TIME	WATCH TIMES LESS PAD TIME	HEAT ADJUSTMENT	OFFICIAL TIME	ORDER OF FINISH
1	54.80	57.89				
2	54.13	57.20				
3	50.86	53.96				
4	51.68	54.80				
5	52.02	55.08				
6	53.00	56.08				
7	53.46	56.51				
8	54.00	57.04				