

National Marine Manufacturers
Association
Product Compliance Specialist Examination
Powering (12/06)

1. What is the maximum power capacity for a 16ft flat bottom boat with a 48 inch transom?
 - a. 15 hp
 - b. 20 hp
 - c. 30 hp
 - d. 40 hp

2. A 27 ft outboard powered boat:
 - a. Must have the recommended power capacity displayed on a power capacity plate.
 - b. Must have the recommended power capacity displayed in the owner's manual
 - c. Need not display the recommended power capacity
 - d. Must display the maximum outboard engine weight

3. When preparing a vessel for a maneuvering speed test,
 - a. Ensure that the prevailing wind speeds are less than 10 mph.
 - b. Ensure that the speed measurement is accurate to within 1 mile per hour
 - c. The operator should consider using special safety equipment
 - d. The propeller should be in as new condition

4. The avoid line test is used to determine maneuvering speed for monohull boats capable of 30 mph or more which are remotely steered.
 - a. True
 - b. False

5. The outboard engine mounting height is determined by the,
 - a. United States Coast Guard
 - b. American Boat and Yacht Council
 - c. Engine manufacturer
 - d. Boat manufacturer

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6. The quick turn test:
 - a. Is required for all applicable boats capable of 30 mph or less
 - b. May be used to determine horsepower rating for canoes & kayaks
 - c. Is required for all applicable boats capable of 30 mph or more
 - d. May used to determine horsepower rating for boats under 13 ft with less than 40 hp.

7. If the top of the tunnel, between the hulls, touches the water of a full loaded powered catamaran, the USCG considers it to be a monohull boat.
 - a. True
 - b. False

8. Rubrails, if installed, may be included when determining the transom width of an outboard boat.
 - a. True
 - b. False

9. Type I inflatable boats have engine power ratings of
 - a. Less than 6 hp.
 - b. More than 20 hp, but less than 20 hp.
 - c. More than 20 hp but less than 99.9 hp.
 - d. Greater than 99.9 hp.

10. The lowest ratio steering system offered for a vessel,
 - a. Is always the most expensive
 - b. Must be used during performance testing
 - c. Is the quickest steering system
 - d. Allows the steering to react slower during testing

11. The driver of a boat conducting performance testing (Quick Turn or Avoidance line test) must not weigh more than 200 lbs.
 - a. True
 - b. False

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12. If a Jon boat and a monohull boat (monohull with 21" transom and remote steering) have dimensions of 18 ft 5 inches (length) by 7 ft 5 inches (transom width), what is the difference between their maximum horsepower ratings?
- a. 100
 - b. 120
 - c. 130
 - d. 135
13. A type two inflatable boat uses which of the following formulas for calculating maximum horsepower.
- a. $P = 0.8xF(d) \div 0.746$
 - b. $P = 1.2xF(d) \div 0.746$
 - c. $P = 10xF(d) \div 0.746$
 - d. $P = (10xF(d) - 33) \div 0.746$
14. During a Quick turn test,
- a. The boat must complete a 180 degree turn
 - b. The steering wheel must be turned 90 degrees in 1/2 second
 - c. The boat must complete a 90 degree turn
 - d. The throttle must be reduce just prior to entering the turn
15. When conducting the avoidance line test, the boat
- a. Must complete its first run at v_{max}
 - b. Must be trimmed for maximum speed
 - c. Fuel tanks must be more than half full
 - d. Without a permanent fuel tank, must have one 1/2 full portable tank for each engine
16. The maximum horsepower rating for a 16 ft canoe is
- a. 3
 - b. 5
 - c. 7
 - d. 9

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17. The dimensional factor for inflatable boats
- a. Is expressed in square feet
 - b. Is expressed in square meters
 - c. Is expressed in square inches
 - d. Is expressed in square yards
18. A 27 ft pontoon boat, having a top speed of 35 mph,
- a. Must complete the quick turn test
 - b. Must complete a avoidance line test
 - c. A & B
 - d. None of the above
19. What is the horsepower rating for a 20 ft pontoon boat that has 26 inch tubes with a volume of 70 ft³ each?
- a. 50
 - b. 70
 - c. 90
 - d. Determined by manufacturer
20. If a vessel, with a maximum speed of 40 mph, fails the avoidance line test at max speed but passes at 35 mph,
- a. The maximum power rating must be reduced
 - b. The maximum power rating need not be reduced
 - c. A permanent sign stating max maneuvering speed must in clear view of the operator
 - d. The vessel must have a speed measuring device as standard equipment

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