

Junior Divemaster Exam



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Junior Divemaster Exam A

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Directions: Select the best answer from the choices provided, or choose the statement that best completes the sentence.

NAME _____

1. When a diver inhales from a regulator, water pressure causes a _____ to flex inward, depressing a(n) _____ that releases the gas
 - ☐ diaphragm in the second stage; downstream valve
 - ☐ piston in the first stage; upstream valve
 - ☐ burst valve in the second stage; demand lever
 - ☐ DIN valve; diaphragm
2. Which of the following can cause a regulator to let water come inside the second stage causing discomfort when you breathe?
 - ☐ A faulty environmental seal
 - ☐ Missing tabs on the mouthpiece
 - ☐ A degraded o-ring on the cylinder valve
 - ☐ A long hose
3. Tides play an important role in determining when certain dive locations will experience strong currents, _____ and _____.
 - ☐ windy conditions; poor visibility
 - ☐ changing aquatic life; longshore drift
 - ☐ changing depth; changing visibility
 - ☐ waves and upwelling
4. You should administer oxygen to a diver you suspect is suffering from decompression illness
 - ☐ only if a medical doctor is present.
 - ☐ as soon as possible.
 - ☐ only if the diver has not been diving with enriched air.
 - ☐ only if you are in a completely dry area.
5. On a dive to 30 metres/100 feet, you notice your buddy is quite distracted, chasing fish and getting farther from you without noticing. You catch up with him but he's slow to understand your hand signals. It's best for you and your buddy to
 - ☐ ascend to a shallower depth.
 - ☐ stay much closer together and continue the dive at the same depth.
 - ☐ abort the dive immediately.
 - ☐ continue until you reach your maximum planned depth.
6. The effects of lung-overexpansion injuries tend to be rapid, whereas the effects of decompression sickness tends to be somewhat delayed.
 - ☐ True
 - ☐ False
7. If a diver surfaces from an uneventful dive with some blood and mucus in her mask, she is likely to have suffered a(n)
 - ☐ ear drum rupture
 - ☐ middle ear squeeze.
 - ☐ round window rupture.
 - ☐ sinus squeeze.
8. How long would an air supply that lasts 40 minutes at 20 metres/66 feet in salt water last at 40 metres/132 feet? (Assume everything but depth is the same).
 - ☐ 16 minutes
 - ☐ 24 minutes
 - ☐ 30 minutes
 - ☐ 80 minutes

9. A cylinder of air containing 0.2% carbon monoxide breathed at 30 metres/99 feet will have the same effect as breathing _____ carbon monoxide on the surface?
- ☐ 0.2%
 - ☐ 0.6%
 - ☐ 0.8%
 - ☐ 1%
10. You fill an enriched air nitrox cylinder with a blend of 30% oxygen and 70% nitrogen. At an ambient (or surrounding) pressure of 1 ata, what is the partial pressure of oxygen?
- ☐ 0.15 ata
 - ☐ 0.3 ata
 - ☐ 0.6 ata
 - ☐ 1.0 ata
11. To be a responsible diver and to reduce the chance of accidental injuries from the environment and aquatic organisms, you should:
- ☐ maintain neutral buoyancy and stay off the bottom when diving.
 - ☐ only touch marine creatures that don't flee from you.
 - ☐ wear gloves at all times.
 - ☐ move quickly when entering through murky water.
12. You're on a dive boat traveling out for the first dive of a multi-dive day. This will be your deepest dive and it's to an iconic spot in the area, so you're excited. You notice one of the dive group is much quieter than normal and seems withdrawn. This could be a sign of _____ and the appropriate action would be to _____.
- ☐ barotrauma; keep an eye on the diver
 - ☐ psychological stress; go over and chat with the diver
 - ☐ decompression illness; provide oxygen
 - ☐ a bad mood; keep out of the diver's way
13. Divers are not a major threat to underwater ecosystems, but hundreds of bumps and kicks by careless divers cause real damage, so it's important to emphasize diving in an environmentally responsible manner.
- ☐ True
 - ☐ False
14. Which of the following is not an activity of a PADI Junior Divemaster?
- ☐ Acting as a buddy with a PADI Instructor in an alternate air source sharing demonstration for student divers in an Open Water Diver course.
 - ☐ Supervising the surface swim to and from shore for student divers in an Open Water Diver course.
 - ☐ Assisting a PADI Professional set up the spare equipment needed for a class.
 - ☐ Creating and presenting an environmental talk about the local area on behalf of the dive center.
15. A Junior Divemaster can enroll in the full PADI Divemaster course upon reaching _____ years old and may receive credit for _____ already completed.
- ☐ 15 / the Dive Set Up and Management skill
 - ☐ 17 / all of the components
 - ☐ 18 / some of the components
 - ☐ 21 / the Mapping Project
16. An environmental orientation is not usually part of a dive briefing.
- ☐ True
 - ☐ False

17. What is the primary reason for having and using diver accounting procedures?

- ☐ To find out how many more divers can fit on the boat
- ☐ To make sure every diver returns after the dive
- ☐ To check that everyone has paid
- ☐ To make sure all divers have completed the necessary paperwork

18. Which of the following are characteristics of a demonstration quality skill?

- ☐ Critical attributes correctly completed and quickly
- ☐ Conscious attention is given to each step; flow doesn't matter
- ☐ A skill demonstration that would not need repeating
- ☐ Slow paced, the sequence emphasized and adequately seen

19. Handling diving and emergency equipment, as well as helping sort paperwork, are examples of the logistical support a Junior Divemaster or Divemaster might typically provide an instructor.

- ☐ True
- ☐ False

20. When conducting a search for a lost object, the topography, visibility, equipment available and _____ can all affect your choice of search pattern.

- ☐ time of day
- ☐ area size
- ☐ whether you have a map available
- ☐ entry point

Student Statement: Any questions I answered incorrectly I've had explained to me and I understand what I missed.

Name _____

Signature _____ Date _____

Junior Divemaster Exam



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Junior Divemaster Exam B

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Directions: Select the best answer from the choices provided, or choose the statement that best completes the sentence.

NAME _____

1. A regulator with a downstream valve means the valve _____ with the gas flow, releasing gas. If it fails, it almost always fails _____.
 - ☐ opens / open
 - ☐ closes / closed
 - ☐ opens / closed
 - ☐ closes / open
2. Missing tabs on the mouthpiece, breathing from the regulator upside down and _____ are all possible causes of water entering the second stage which can cause breathing discomfort.
 - ☐ lack of an environmental seal in the cylinder valve
 - ☐ a second stage exhaust that doesn't seal properly
 - ☐ a short second stage hose
 - ☐ a leaky mask
3. When diving where thermoclines are present, divers need to choose their _____ based on their planned depth and duration, so it might be good to mention this during dive briefings.
 - ☐ BCD
 - ☐ regulator
 - ☐ exposure protection
 - ☐ weights
4. You've just climbed back onto the boat after a dive, and your buddy complains of dizziness, shortness of breath and skin close to the neck area that seems to crackle when touched. What's the best course of action?
 - ☐ Give him a warm drink and reassurance.
 - ☐ Provide oxygen and lie him down.
 - ☐ Lie him down and ensure he is warm.
 - ☐ Do nothing and let him get his breath back.
5. The primary hazard with gas narcosis in recreational diving is that
 - ☐ a diver may be slow to recognize a problem.
 - ☐ symptoms remain even after the diver surfaces.
 - ☐ symptoms get worse as the diver ascends to shallower depths.
 - ☐ a diver could convulse under water.
6. It can be difficult to distinguish between decompression sickness and lung overexpansion injuries, so the first aid, emergency care and treatment for both are identical.
 - ☐ True
 - ☐ False
7. If a diver is shivering uncontrollably and has impaired muscle coordination, he probably has _____ and should _____.
 - ☐ heat exhaustion / slow down.
 - ☐ severe hypothermia / make a controlled emergency swimming ascent.
 - ☐ gas narcosis / ascend into shallower waters.
 - ☐ mild hypothermia / end the dive.

8. Approximately _____ of air must be pumped from the surface to completely fill a 50-litre open, inflexible container at a depth of 20 metres/66 feet of sea water.
- ☐ 50 litres
 - ☐ 100 litres
 - ☐ 150 litres
 - ☐ The answer can't be determined from the information given.
9. A cylinder of air containing 0.5% carbon monoxide breathed at 30 metres/99 feet will have the same effect as breathing _____ carbon monoxide on the surface?
- ☐ 0.5%
 - ☐ 1.0%
 - ☐ 2.0%
 - ☐ 3.0%
10. You fill an enriched air nitrox cylinder with a blend of 30% oxygen and 70% nitrogen. At an ambient (or surrounding) pressure of 1 ata, what is the partial pressure of nitrogen?
- ☐ 0.3 ata
 - ☐ 0.7 ata
 - ☐ 1.0 ata
 - ☐ 1.4 ata
11. In terms of environmental responsibility, divers should wear gloves _____ to avoid stings and cuts.
- ☐ only when appropriate
 - ☐ all the time
 - ☐ only when planning to touch aquatic organisms
 - ☐ only in murky, dark water
12. The Earth is called an "ocean planet" because
- ☐ all inland freshwater flows away from the ocean.
 - ☐ water covers about 71% of its surface.
 - ☐ it is made up of many disconnected seas and oceans .
 - ☐ seawater covers about 97% of its surface.
13. Good practice for dive briefings is to keep them brief, fun and realistic. Avoid over stressing hazards.
- ☐ True
 - ☐ False
14. Which of the following is an allowable activity of a PADI Junior Divemaster?
- ☐ Supervising the underwater tour for student divers in an Open Water Diver course.
 - ☐ Assisting a PADI Professional set up the spare and emergency equipment needed for a class.
 - ☐ Conducting the Discover Snorkeling program.
 - ☐ Leading certified PADI Scuba Divers on their subsequent dives.
15. Which of the following could be credited from the PADI Junior Divemaster course towards the PADI Divemaster course:
- ☐ Diver Rescue Assessment
 - ☐ Dive Briefing
 - ☐ Mapping Project
 - ☐ Dive Set Up and Management
16. A map of the dive site is an essential part of a dive briefing.
- ☐ True
 - ☐ False

17. Which of the following would be a useful tool for diver accounting procedures?

- ☐ A dive light
- ☐ PADI Dive Roster slate
- ☐ Emergency oxygen
- ☐ A whistle

18. The four Es of the dive business are: Education, Equipment, Experiences and _____, and particularly with the last E, your function is to _____.

- ☐ Enterprise / help the dive center make money
- ☐ Empathy / supervise and look after divers
- ☐ Equality / treat everyone the same
- ☐ Environment / be a role model

19. It's perfectly okay to repeat a skill demonstration from another angle. This doesn't mean the skill wasn't a demonstration quality skill and the repetition can often enhance learning.

- ☐ True
- ☐ False

20. Which of the following search patterns would be best carried out with a compass?

- ☐ Jackstay search
- ☐ U-pattern
- ☐ Circular pattern
- ☐ Random search in a small area

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Name _____

Signature _____ Date _____