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13.	<p>As far as I know the longest mountain range in the world is called:</p> <p>a) The Rocky mountains b) The Andes c) The Mid-Oceanic ridge</p>	C
14.	<p>Waves are created by energy passing through water, causing it to move in a circular motion. Surface waves in the ocean are mostly caused by:</p> <p>a) Wind moving across the surface of the water b) The gravity of the moon and sun c) Underwater volcanoes</p>	A

THE OCEAN AND LIFE IN THE OCEAN SHAPE THE FEATURES OF THE EARTH		
15.	<p>Which statement is the most accurate description about how sand is produced?</p> <p>a) Most of the sand in the ocean is produced by the breaking down of plastic b) Most of the sand in the ocean is produced by the erosion and breaking down of rocks c) Most of the sand in the ocean is produced by the breaking down of shells</p>	B
16.	<p>Activity under the ocean has shaped features such as continental shelves, plateau's, banks, ridges, seamounts, troughs, valley's as well as islands above sea level. These features have been formed through:</p> <p>a) Movement of the tectonic plates and volcanic activity b) Erosions and landslides c) Changing Sea levels d) All of the above</p>	D
17.	<p>The coastal environment is constantly changing, as sand and rocks are moved around the ocean floor and broken up. Which are the following are important for this process?</p> <p>a) Wind b) Waves c) Tides d) All of these</p>	D
18.	<p>Scientists have discovered cold water corals at depths of 1000 to 3000 metres in Irish waters known as the designated Irish Continental Shelf. In which area of Irish waters have cold water corals been discovered?</p> <p>a) Rockall Trough b) Porcupine Abyssal Plain c) Porcupine Bank</p>	C
19.	<p>Underwater volcanoes or submarine volcanoes accounts for 75% of the volcanic activity in the world. This activity is located near tectonic plate movement, known as mid-ocean ridges. This chain of activity has formed a feature known as the Ring of Fire. Which Ocean is this feature</p> <p>a) In the Atlantic Ocean b) In the Pacific Ocean c) In the Arctic Ocean</p>	B
20.	<p>Many features are formed where the ocean meets land. Which of the following is <u>NOT</u> a coastal feature?</p> <p>a) Sandy Shore b) Wave cut platform c) U-shaped valley</p>	C
21.	<p>Hydrothermal vents are like geysers that form thousands of metres under the ocean. They are like chimneys and are known as 'smokers'. They were first discovered in the late 1970's in which ocean?</p> <p>a) The Atlantic Ocean b) The Indian Ocean c) The Pacific Ocean</p>	C



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THE OCEAN HAS A MAJOR INFLUENCE ON WEATHER AND CLIMATE		
22.	<p>Hurricanes can form where water (from ocean) and air interact. Hurricanes gain or lose strength (wind speed) based on the temperature of the ocean below. As ocean temperatures increase which of the following statements do you think is true?</p> <p>a) Warmer Oceans will have no effect on the frequency or strength of hurricanes b) Warmer Oceans may result in less hurricanes, with lower wind speeds c) Warmer Oceans may result in more frequent hurricanes with stronger wind speeds</p>	C
23.	<p>The Gulf Stream is a current of warm water that moves across the Atlantic Ocean and affects the weather in Europe. In what way does it affect the Irish Climate?</p> <p>a) It brings warm, moist air past the Irish west coast causing mild and moist weather during winter b) It brings warm, moist air past our west coast causing long hot summers with little rain c) It brings warm, moist air past our west coast causing long cold winters with lots of snow and ice</p>	A
24.	<p>The Arctic Ocean is covered by sea ice that varies in its area and thickness seasonally. In what way is climate change impacting the Arctic?</p> <p>a) Arctic fish populations are increasing b) Polar ice is decreasing c) Mountain glaciers are growing larger</p>	B
25.	<p>Ocean currents transport enormous amounts of heat around the world, which is known as thermohaline circulation. This is also known as the:</p> <p>a) The Biggest Heat Wave b) The Longest Salty River c) The Great Ocean Conveyor Belt</p>	C

THE OCEAN MAKES EARTH HABITABLE		
26.	<p>The water cycle involves a number of processes of which precipitation is one. Which statement best describes this process?</p> <p>a) Precipitation is when water changes from a gaseous state back into water vapour b) Precipitation is when atmospheric water vapour falls back down to earth as rain, drizzle, snow, sleet or hail c) Precipitation is when water is vaporised from its liquid state in a gaseous state and rises upwards</p>	B
27.	<p>Over 50 percent of the oxygen that we breathe has been produced by:</p> <p>a) Microscopic plants in the ocean called phytoplankton b) Rain forests including all of the trees and plants c) Seaweeds including kelp, Irish moss and gutweed on the seashore</p>	A
28.	<p>The ocean provides us with freshwater through the process called:</p> <p>a) Diffusion b) Ice melting c) The Watershed d) The Water Cycle</p>	D
29.	<p>The ocean is responsible for absorbing carbon dioxide from the atmosphere. What happens if the ocean absorbs too much carbon dioxide?</p> <p>a) The ocean temperature stays the same b) There is more alkaline in the water c) The ocean becomes too acidic</p>	C



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55.	Basking sharks diet consists mainly of: a) Sea lions and Seals b) Shellfish including cockles and mussels c) Plankton (tiny plants and animals that live near the surface of water), fish eggs, barnacles and shrimp	C
56.	The colossal squid have the largest eyes in the animal kingdom in relation to their body size. Approximately what size are their eyes? a) Approximately 27cm which is about the size of an adult soccer ball b) Approximately 7cm which is about the size of a tennis ball c) Approximately 12cm which is the size of a standard cereal bowl	A
57.	Mangroves grow in salty water in the inter-tidal zones of tropical and subtropical parts of the world. What are they? a) Mangroves are a type of fish b) Mangroves are a type of tree c) Mangroves are a type of seaweed	B
58.	Around half the global population or colonies of grey seals are found in what part of the world? a) Around Asian coastlines b) Around American coastlines c) Around British coastlines	C
59.	Which of the following statements is correct about Polar bears and Penguins? a) Polar bears live in the Arctic while the penguins live in Antarctica b) Polar bears and penguins live in the same area in the North Pole c) Polar bears live in the Antarctic for some of the year	A
60.	The fins on a fish help it swim and are used for balance and turning in the water. What is the tail of a fish called? a) Dorsal fin b) Caudal fin c) Pectoral fin	B

THE OCEAN AND HUMANS ARE INEXTRICABLY INTERCONNECTED

61.	On average the majority of the world's population near the ocean. In the Republic of Ireland, what distance does 40 percent of the population (1.9 million) live from the coast? a) 60km b) 20km c) 5km	C
62.	The ocean provides an essential source of food for humans. What species of cod are caught by fishermen in Ireland that are sold commercially? a) Atlantic cod b) Pacific cod c) Greenland cod	B
63.	Nephrops <i>norvegicus</i> are an orange-pink lobster which grows up to 25 cm and are one of the most commercially important groups of animals harvested and farmed throughout the world. They are given different names in different parts of the world. What are they commonly known as in Ireland? a) Norway lobster b) Dublin Bay prawn c) Langoustine d) Scampi	B
64.	Aquaculture is the fastest growing food sector in the world, which includes fish, shellfish, and seaweed. Which type of aquaculture is relatively new in Ireland? a) Mussel and Oyster farming b) Salmon and Trout farming c) Abalone and Urchin farming	C
65.	Marine scientists study marine animals, sponges, seaweeds and corals to help discover new medicines to help cure diseases. In Ireland, what type of seaweed has been used for centuries as a remedy for sore throats, coughs and colds, as well as a thickener in cooking? a) Carrageen Moss or Irish Moss b) Bladderwrack c) Gutweed	A



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66.	<p>Marine scientists monitor and test the marine environment for natural and human pollutants in the ocean. Phytoplankton blooms, micro-algal blooms, toxic algae, red tides, or harmful algae are all terms for naturally occurring phenomena in the ocean. What term is used by marine scientists to describe these events?</p> <p>a) Harmful Algal Blooms b) Sinister Ocean Blooms c) Toxic Pollutions</p>	A
67.	<p>Which human activity increases the <u>acidity (pH level)</u> of the ocean water the most?</p> <p>a) Burning fossil fuels adds carbon dioxide to the atmosphere, which is then absorbed by the ocean b) The breaking down of human waste, such as plastic in the ocean, is releasing toxins into the water. c) Using alternative energy resources such as solar, sun and wave energy</p>	A
68.	<p>What is the biggest cause of marine pollution around the world - approximately 80%?</p> <p>a) Fishing vessels (e.g. Abandoned fishing gear etc.) b) Cruise and cargo ships (e.g. Greenhouse gas emissions, acoustic, and oil pollution) c) Nonpoint source pollution (e.g. Drains and sewers, open dump sites, humans leaving items on the beach, agriculture runoff washed into the sea)</p>	C
69.	<p>Approximately how much global trade, such as things that we buy – food, clothing, cars, building materials etc. is carried by sea in cargo ships each year?</p> <p>a) 60% b) 75% c) 90%</p>	C
70.	<p>Which one of the below is <u>NOT</u> a maritime career?</p> <p>a) Marine Insurance Consultant b) Stevedore c) Airline Pilot</p>	C
71.	<p>Ocean energy is a form of renewable energy that constitutes a clean and inexhaustible energy source that can be used to power homes, transport and industries around the world. What elements of the ocean may be used to generate electricity?</p> <p>a) The ocean's tides and waves b) Winds and currents c) Thermal elements d) All of the above</p>	D
72.	<p>The majority of international data is transmitted by wires at the bottom of the ocean, which are called submarine communications cables. Between which countries on either side of the Atlantic Ocean was the first transatlantic cable laid in 1858?</p> <p>a) Newfoundland and Ireland b) USA and the England c) Spain and South America</p>	A
73.	<p>What is the name of the oldest lighthouse in Ireland?</p> <p>a) Loophead Lighthouse b) Bull Rock Lighthouse c) Hook Lighthouse</p>	C
74.	<p>The most popular holiday destinations in the world are:</p> <p>a) Mountain resorts b) Seaside locations c) City breaks</p>	A
75.	<p>Research shows that spending time by the ocean has many positive effects on health and well-being. Doctors were prescribing trips to the shore or visits to "bathing hospitals" — special clinics that offered seawater bath treatments — as early as what century?</p> <p>a) the 18th century b) the 19th century c) the 20th century c) the 21st century</p>	A
76.	<p>Garrett McNamara is a professional big wave surfer and famous for breaking the world record for largest wave (23.8m) ever surfed in 2011. What was the location of the wave he surfed?</p> <p>a) Eileen at Cliffs of Moher, Ireland b) Nazaré, Portugal c) Jaws at Pe'ahi , Hawaii</p>	B



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91.	What are Yawls, Currachs and Galway Hookers? a) Traditional boats built in Ireland b) Traditional boats built in Africa c) Traditional boats built in America	A
92.	What shipwreck is located using the following latitude 41° 43' 57" North, longitude 49° 56' 49" West? a) Bismarck b) Titanic c) Carpathia	B
93.	The largest patch of plastic waste in the world can be found in the North Pacific Ocean. In comparison to land area, it is the same size as: a) Ireland b) Texas c) Canada	B

THE OCEAN IS LARGELY UNEXPLORED

94.	The diving bell is one of the earliest types of equipment for underwater work and exploration. Which sovereign in Europe was responsible for exploring the Mediterranean sea using a barrel of white glass in 332 B.C.? a) King Arthur b) Henry VIII c) Alexander the Great	C
95.	What was the name of the ship that was used in 1872–1876 for a marine science expedition around the world that laid the foundation of oceanography? a) HMS <i>Challenger</i> b) HMS <i>Endeavour</i> c) <i>Calypso</i>	A
96.	A person who studies the diverse topics relating to the ocean such as marine life and habitats; plate tectonics and the geology of the seafloor; as well as the chemical; and physical properties of the ocean is called an: a) Astronomer b) Oceanographer c) Volcanologist	B
97.	What was the woman's name who created the first scientific map of the entire ocean floor confirming the concept of tectonic plates and the continental shift in 1957, while working with Bruce Charles Heezen? a) Marie Tharp b) Sylvia Earle c) Katherine Megan McArthur	A
98.	Satellites were first used to map the seafloor in what year? a) 1960's b) 1970's c) 2000's	A
99.	Ireland has one of the largest ocean territories in the EU and ten times the size of its land area. Ireland is one of the first countries to map its deepest parts of its seabed using advanced multi-beam technology. Approximately what size is Ireland's seabed territory? a) 10,000km ² b) 880,000km ² c) 1000,000km ²	B
100.	What is the name of Ireland's largest research vessel responsible for deep sea research? a) RV <i>Celtic Explorer</i> b) RV <i>Celtic Voyager</i> c) <i>Celtic Mist</i>	A
101.	Only three people have ever reached the deepest part of the ocean at the bottom of the Mariana Trench in the Pacific. This included Jacques Picard and Don Walsh in 1960. What was the name of the movie director who dived to the bottom of the ocean in 2012? a) James Cameron b) Steven Spielberg c) Steven Soderberg	A

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