

# Oceanography

1. Sunda Trench lies in:
  - A. Atlantic Ocean
  - B. Pacific Ocean
  - C. Indian Ocean
  - D. Antarctic Ocean
2. Which one of the following is correct?
  - A. Along Brazilian coast
  - B. Off south west African coast
  - C. Off Spanish and North African coast
  - D. Along West coast of united states
3. Kiel Canal connects:
  - A. Baltic sea and North sea
  - B. Red Ocean and Mediterranean sea
  - C. Caribbean sea and Pacific sea
  - D. Atlantic Ocean and Pacific Ocean
4. Falkland Islands are in:
  - A. Antarctica
  - B. North Atlantic
  - C. South Atlantic
  - D. Pacific
5. The main masses of land above sea level are called:
  - A. Continent
  - B. Islands
  - C. Nations
  - D. Countries
6. **Assertion (A)** : Despite low evaporation and stable stratification of the atmosphere, salinity is high in polar regions.  
**Reason (R)** : Sea water freezes leaving the remaining water saline than before.  
**Codes:**
  - A. Both A and R are true and R is the correct explanation of A
  - B. Both A and R are true but R is not the correct explanation of A
  - C. A is true but R is false
  - D. A is false but R is true
7. The cause for the Tsunami, as deduced by the seismologists, is:
  - A. Gravitational pull of the moon
  - B. Low pressure through in the ocean
  - C. Deformation of sea floor and vertical displacement of water
  - D. Sudden change in the monsoon wind
8. Which of the following factors affect the origin and movement of current:
  - I. Gravitational Force
  - II. Atmospheric pressure and insolation
  - III. Salinity and density of water
  - IV. Direction and Shape of coast
  - A. I and II
  - B. I, II and IV
  - C. I, II and III
  - D. All four
9. Grand Banks is one of the important producers of:
  - A. nitrate
  - B. iron ore
  - C. marine fish
  - D. bauxite
10. Which one of the following statements is correct?
  - A. Salinity decreases with increasing evaporation
  - B. There is inverse relationship between precipitation and salinity
  - C. There is inverse relationship between atmospheric pressure and salinity
  - D. Salinity increases with influx of river water in oceans
11. Name the ocean in which the north equatorial current changes its direction with season:
  - A. North Pacific Ocean
  - B. Atlantic Ocean
  - C. Indian Ocean
  - D. South Pacific Ocean
12. Which of the following theory explains the origin of coral reefs and atolls?
  - A. Sliding continental theory
  - B. Elastic rebound theory
  - C. Continental drift theory
  - D. Glacial control theory
13. Which one of the following is not a cold current?
  - A. Falkland
  - B. California
  - C. West Australia
  - D. Agulhas
14. Which one of the following trench is not located in the Pacific Ocean?
  - A. Mariana
  - B. Tonga
  - C. Sunda
  - D. Aleutian
15. Which one of the following is a warm current?
  - A. Peruvian current
  - B. Canaries current
  - C. Benguela current
  - D. Brazil current
16. Which one of the following does not enjoy mediterranean type of climate?
  - A. California
  - B. Cyprus
  - C. Bolivia
  - D. Algeria
17. Of the following west European countries the only one with coast lines on three seas is:

- A. Portugal                      B. Belgium  
C. Spain                         D. France
18. Which of the following theories of the formation of coral reefs and atoll was postulated by Darwin?  
A. Glacial control theory  
B. Subsidence theory  
C. gland still theory  
D. composite theory
19. The density of sea water increases if:  
A. depth and concentration of salt both decrease  
B. depth and concentration of salt both increase.  
C. depth decreases but concentration of salt increases.  
D. depth increases but concentration of salt decreases.
20. Stationary wave theory is related to the origin of:  
A. tides                              B. the earth  
C. continents                      D. coral reefs
21. Which of the following is not a warm current?  
A. N.E. monsoon current  
B. California current  
C. Agul has current  
D. East Australian current
22. The important ocean resource for iodine and potash is:  
A. Green algae                      B. Red algae  
C. Brown algae                      D. Blue green algae
23. Identify the correct sequence of the amount of the following minerals present in ocean water in descending order using the code given below:  
**Minerals**  
1. Magnesium chloride  
2. Sodium chloride  
3. Magnesium sulphate  
4. Calcium sulphate  
**Codes:**  
A. 1              2              3              4  
B. 2              3              1              4  
C. 4              1              2              3  
D. 2              1              3              4
24. **Assertion (A)** : Pisciculture has shown phenomenal growth in monsoon Asia  
**Reason (R)** : Monsoon Asia countries are the leading exporters of fish  
Select the answer from the following code:  
**Codes:**  
A. Both A and R are true and R is the correct explanation of A  
B. Both A and R are true but R is not the correct explanation of A  
C. A is true but R is false  
D. A is false but R is true
25. On the basis of international trade, the most important ocean route is:  
A. Atlantic Ocean, Mediterranean Sea, Indian ocean via Suez Canal.  
B. Atlantic ocean, Indian Ocean via cape of Good Hope.  
C. North Atlantic route between Europe and North America.  
D. Western coast of North America-Europe route via Panama Canal.
26. **Assertion (A)** : Mid Oceanic ridges are the nuclei of future continents.  
**Reason (R)** : There has been divergent movement of plates along mid-oceanic ridges.  
A. Both A and R are true and R is the correct explanation of A  
B. Both A and R are true but R is not the correct explanation of A  
C. A is true but R is false  
D. A is false but R is true
27. Which of the following is not correctly matched?  
A. Aleutian trench — North Pacific  
B. Tonga trench — South Pacific  
C. Puerto Rico trench — South Atlantic  
D. Sunda trench — Indian Ocean
28. Which of the following pairs are correctly matched?  
1. Oyeshio : South Pacific  
2. Falkland Current : South Atlantic  
3. Mozambique Current : Indian Ocean  
4. Labrador Current : North Pacific  
**Codes:**  
A. 1 and 2                      B. 2 and 3  
C. 3 and 4                      D. 1 and 4
29. Which of the following pair of factors is responsible for a lag of 58 minutes in two direct tides on the earth's Ocean surface?  
1. Earth's rotation              2. Earth's revolution  
3. Moon's rotation              4. Moon's revolution  
**Codes:**  
A. 1 and 2                      B. 2 and 3  
C. 3 and 4                      D. 1 and 4
30. Study the following statements about the mid-oceanic ridges and select the correct answer using the code given below:  
1. Mid oceanic ridges are zones of linear.  
2. These are given to up welling of lava.  
3. Convection currents converge under the mid oceanic ridges.  
4. Sea floor spreading starts from this zone.  
**Codes:**  
A. 1 and 2 are correct      B. 2, 3 and 4 are correct  
C. 1, 2 and 4 are correct      D. 1, 3 and 4 are correct

31. The only European country with coastlines on the Atlantic ocean, mediterranean sea and North Sea is:  
A. Portugal B. Belgium  
C. Spain D. France
32. Which of the following occur more frequently than  
A. Hurricanes B. Willy willies  
C. Tornado D. Typhoons
33. A long wall built on the beach that crosses shoreline at right angles for the protection of the shoreline against erosion is termed as:  
A. Sea wall B. Groyne  
C. Dockyard D. Harbour
34. The shallow waters of the continental shelves are rich grounds. An example of such area is:  
A. Black Sea B. Caspian Sea  
C. Bass Strait D. North Sea
35. Along the coasts salinity is:  
A. lowered B. increased  
C. stable D. unaffected
36. OTEC power plants can be only located in:  
A. Temperate region B. Subtropical zone  
C. Tropical region D. Polar zone
37. The desalination plant in India is located at:  
A. Kavarati B. Chennai  
C. Minicoy D. Diu
38. The most common method of desalination in the world is:  
A. Flash distillation B. Electrodialysis  
C. Reverse osmosis D. Heating
39. The up rush of the tidal waves of certain height through the river mouth is called:  
A. Seiches B. Tsunamis  
C. Spring tide D. Tidal bore
40. High sea tides occur after an interval of:  
A. 14 days  
B. 12 hours 26 minutes  
C. 6 hours and 2 minutes  
D. 4 hours and 6 minutes
41. Equatorial spring tides occur at an interval of:  
A. 12 and a half hours  
B. 6 hours  
C. 6 months  
D. 12 months
42. Which one of the following ocean currents is popularly known as warm planet of Europe?  
A. Gulf stream  
B. Agul has currents  
C. East Australian current  
D. Falkland current
43. Spring tides occur on full moon and new moon days because:  
A. moon and earth at right angle  
B. sun and moon are at right angles  
C. sun, earth and moon are in a straight line  
D. sun and earth are at right angle
44. Neap tides are smaller because:  
A. the moon's gravitational force is less  
B. the sun and the moon do not act together.  
C. the gravitational attraction of sun and moon tend to cancel each other.  
D. it takes place at night.
45. A tidal period is:  
A. 12 hour duration period during which high tide and low tide come  
B. duration between the high and the low tide  
C. 12 hour 26 minutes period between successive high and low tide  
D. duration between two successive crests
46. The periodic appearance of warm water off the peruvian coast due to the suppression of trade winds is called:  
A. Humboldt current B. Cromwall current  
C. Under toe D. None of these
47. Sinking of oceanic water is caused by its increased density. At which of the following latitudes will sinking occur:  
A.  $0^\circ$  B.  $40^\circ$   
C.  $60^\circ$  D.  $90^\circ$
48. In the lower latitude warm currents blow on:  
A. the western shore B. the eastern shore  
C. both A and B D. none of these
49. Match the following:
- | <i>Currents</i>              | <i>Oceans</i>                          |
|------------------------------|--|
| (a) Falkland current         | 1. warm current                        |
| (b) Norwegian current        | 2. cold current                        |
| (c) Florida current          | 3. West coast of the U.S.A.            |
| (d) Okhotsk current          | 4. Atlantic Ocean                      |
| (e) British columbia current | 5. West Coast of Kamachatka Peninsula. |
- Codes:**
- |    | (a) | (b) | (c) | (d) | (e) |
|----|-----|-----|-----|-----|-----|
| A. | 2   | 4   | 1   | 5   | 3   |
| B. | 2   | 1   | 4   | 5   | 3   |
| C. | 1   | 2   | 3   | 4   | 5   |
| D. | 4   | 2   | 5   | 3   | 1   |
50. Cobot current is the branch of:  
A. labrador current B. N. equatorial current  
C. Bengula current D. Brazilian current

51. The Gulf Stream is:
  - A. Found in the Pacific Ocean
  - B. Found on the western side of the Atlantic Ocean
  - C. Found near cape of Good Hope
  - D. Found in the Arctic Ocean
52. The Sargasso Sea is an area of:
  - A. sea weeds
  - B. warm saline water
  - C. calm conditions
  - D. very cold waters
53. The current is produced by upwelling of cold water of the coast of Chile and Peru is known as:
  - A. Gulf stream
  - B. Humboldt current
  - C. Benguela current
  - D. None of these
54. What is the principal cause of surface circulation in the oceans?
  - A. Wind action
  - B. Temperature
  - C. Coriolis effect
  - D. Density differences
55. The Okhotsk current washes the shores of:
  - A. Alaska
  - B. Kamchatka peninsula
  - C. Yellow Sea
  - D. Hokkaido island
56. Sargasso sea is located in the:
  - A. Indian Ocean
  - B. Gulf of Mexico
  - C. North Atlantic Ocean
  - D. South Pacific Ocean
57. Which of the following is a cold ocean current?
  - A. Humboldt current
  - B. Canaries current
  - C. Falkland current
  - D. All of these
58. The sub surface movement between east and west Atlantic takes place through:
  - A. Romance trench
  - B. Walvi & ridge
  - C. Guinea trench
  - D. Wyllie Thompson ridge
59. Caballing refers to:
  - A. movement of water along the slope
  - B. sinking and merging of surface water
  - C. current movement off shore
  - D. upwelling and divergence of water
60. The counter equatorial current flows from
  - A. west to east
  - B. east to west
  - C. north to south
  - D. south to north
61. Surface currents in the ocean are primarily caused by
  - A. temperature difference
  - B. density difference
  - C. wind action
  - D. coriolis effect
62. An eastward flowing sub surface counter current in the pacific is:
  - A. Leeuwin current
  - B. Abrorhas current
  - C. Cromwell current
  - D. equatorial current
63. The circulation clockwise flow of water is called a:
  - A. geostrophic current
  - B. up welling
  - C. gyre
  - D. water masses
64. Corals are generally found in tropical sea between:
  - A. 20°N and 15°S
  - B. 30°N and 30°S
  - C. 10°N and 10°S
  - D. 23.5°N and 23.5°S
65. Which of the following is considered as a marine paradise?
  - A. Atoll
  - B. Great barrier reef
  - C. Lagoon
  - D. Fringing reef
66. The coral reefs are mainly found in:
  - A. polar regions
  - B. tropical regions
  - C. mid latitude regions
  - D. equatorial regions
67. The Great Barrier reef is found:
  - A. close to Greenland
  - B. in Persian Gulf
  - C. in the Bay of Bengal
  - D. off the Australian N.E. Coast
68. The Second Largest Barrier reef after the Great Barrier reef in the world is:
  - A. Off the coast of Belite between Mexico and Guatemala
  - B. Off the west coast of India
  - C. Off the Sahara Coast
  - D. Off the east coast of Seychelles
69. Which of the following conditions are not helpful to the growth of corals?
  - A. Clear shallow water
  - B. Sediment free water
  - C. Photic Zone
  - D. Salinity around
70. The maximum development of coral reef formation takes place in:
  - A. Pacific Ocean
  - B. Arabian Sea
  - C. Caribbean Sea
  - D. South Atlantic
71. The only eastern coast of ocean where true sclerectinian corals are found is:
  - A. Coast of West Australia
  - B. South East Pacific
  - C. North East Pacific
  - D. Somalian Coast
72. The reef building corals are called:
  - A. hermatypic
  - B. a hermatypic
  - C. sclerectinian type
  - D. sessile type
73. Lime stone deposits are the most important deposits of:
  - A. Deep Sea
  - B. Shallow Sea
  - C. Deep Sea Plain
  - D. Coastal area
74. The main components of green mud are:
  - A.  $\text{CaCO}_3$  and  $\text{FeCO}_3$
  - B.  $\text{FeCO}_3$  and  $\text{PbCO}_3$
  - C. Glauconite and  $\text{CaCO}_3$
  - D.  $\text{Ca(OH)}_2$  and Glauconite

75. Which of the following is correctly matched?  
 A. Red clay — Pacific Ocean  
 B. Pelagic deposits — Only inorganic  
 C. Pteropod Ooze — Continental  
 D. Terrigenous deposits — Deep Sea plain
76. Which ocean deposits is found in the deepest parts of the ocean?  
 A. Red clay B. Terrigenous deposits  
 C. Diatom ooze D. Red mud
77. \_\_\_\_\_ deposits occupies the largest percentage of bottom surface of oceans.  
 A. Terrigenous B. Biogenous  
 C. Clay D. Hydrogenous
78. Red clay is chiefly composed of:  
 A. clay minerals derived from wind borne dust  
 B. rock waste dropped by iceberg  
 C. wind blown volcanic ash  
 D. All of the above
79. The most widespread pelagic deposits are:  
 A. red clay B. radiolaria  
 C. diatom D. pteropod
80. The most wide spread ooze deposits are:  
 A. globigerina B. pteropod  
 C. coccolithophore D. Radiolaria
81. In which of the following locations evaporate deposits form?  
 A. Dead Sea B. Gulf of Mexico  
 C. Lake Superior D. L Tanganyika
82. Black beds form under the conditions of:  
 A. stagnant water  
 B. greater organic matter content  
 C. presence of little oxygen  
 D. All of the above
83. Surface salinity of sea water predominantly depends upon the ratio of evaporation to precipitation at which of the following latitude surface salinity will be the highest.  
 A. 0° B. 20°  
 C. 30° D. 40°
84. Normal salinity of sea water defined as the amount of salt per thousand grams of sea water, which of the following is true for it.  
 A. 25 gms B. 30 gms  
 C. 35 gms D. 40 gms
85. What is the most common salt in the sea water?  
 A. Sodium chloride B. Calcium chloride  
 C. Calcium carbonate D. Magnesium sulphate
86. What is the average salinity between 15°S- 20°S latitude?  
 A. 32 per cent B. 30 per cent  
 C. 25 per cent D. 35 per cent
87. The average salinity of sea water is:  
 A. 40 per cent B. 35 per cent  
 C. 30 per cent D. 20 per cent
88. Which one of the following seas/oceans has the maximum salinity?  
 A. North Sea B. Pacific Ocean  
 C. Atlantic Ocean D. Indian Ocean
89. In.....latitudes, salinity.....with depth.  
 A. High, increases B. Low, increases  
 C. High, decreases D. Low, decreases
90. In open ocean in the sub tropical high pressure zone the salinity is.....while in the enclosed seas in the same latitude, salinity is.....  
 A. Higher, lower B. Lower, higher  
 C. Higher, constant D. Constant, higher
91. Bays and headlines are generally found in shore line of:  
 A. submergence B. emergence  
 C. neutral type D. faulted type
92. A narrow coastal inlet is known as:  
 A. creek B. cre vasse  
 C. ria D. fiord
93. How are the bottom topography of an ocean shown?  
 A. Hypsographic curve B. Countour maps  
 C. Hydrostatic curve D. Hythergraph
94. The Red Sea is an example of:  
 A. residual structure B. volcanic structure  
 C. folded structure D. faulted structure
95. Guyots were discovered by:  
 A. Guyot, A.D. B. Guyot A.H.  
 C. Guyot W.A. D. Guyot C.S.
96. Wyville Thompson ridge is located in:  
 A. north Atlantic Ocean B. Indian Ocean  
 C. north Pacific Ocean D. south Pacific Ocean
97. Archipelago is:  
 A. the shallow part of the sea  
 B. the slowly moving mass of ice down a mountain  
 C. the ring shaped coral reefs  
 D. a group of islands
98. The ninety-East ridge is found in:  
 A. Indian Ocean B. Atlantic Ocean  
 C. Andes mountain D. Rocky mountain
99. Which of the following seas is located on the continental shelf?  
 A. Tasman Sea B. North Sea  
 C. Caribbean Sea D. Caspian Sea

- 100.** Which line joins points of the seas/oceans having equal salinity?  
A. Thermohaline                      B. Isohaline  
C. Isobars                                D. Isotherms
- 101.** In deep seas oozes are formed due to the deposition of:  
A. inorganic materials  
B. volcanic materials  
C. terrigenous materials  
D. organic materials
- 102.** Sargasso sea is located in:  
A. Atlantic ocean                      B. Indian Ocean  
C. Pacific Ocean                        D. Arctic Ocean
- 103.** Salt is available at sambhar because:  
A. exposure of rock salt  
B. a lake with no drainage outlet  
C. a lake which receives sea water  
D. it has a closed lagoon
- 104.** Shrimp culture is highly developed in:  
A. Andhra coastal region  
B. Gujarat coastal region  
C. Kerala coastal region  
D. Odisha coastal region
- 105.** Which one of the followings is the correct average range of worldwide variations in sea water salinity?  
A. 34% to 37%                        B. 27% to 29%  
C. 37% to 39%                        D. 21% to 26%
- 106.** Dolphin challenger Ridge is located in:  
A. Atlantic Ocean                      B. Pacific Ocean  
C. Arctic Ocean                        D. Indian Ocean
- 107.** Which of the following is a cold ocean current?  
A. Venguela                            B. Gulf Stream  
C. Kurisio                                D. Peru
- 108.** The most important layer for all biological activity in the atmosphere is:  
A. Mesosphere                        B. Ionosphere  
C. Exosphere                            D. Troposphere
- 109.** Occasional winter rainfall in northern India occurs due to the cyclones from:  
A. Bay of Bengal                        B. Pacific Ocean  
C. Arabian Sea                            D. Mediterranean Sea
- 110.** The climate of which of the following natural regions is most affected by the shifting pressure belts:  
A. Mediterranean                        B. Equatorial  
C. Western maritime                    D. Prairie.

## ANSWERS

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
C	B	A	C	B	D	B	D	C	B
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
C	D	D	C	D	C	D	B	B	A
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
B	C	D	C	C	B	C	B	D	C
<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>
D	A	B	D	A	C	A	C	D	B
<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>	<b>50</b>
D	A	C	C	C	D	D	B	A	A
<b>51</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>
B	A	B	A	B	C	D	A	B	A
<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>
C	C	C	B	B	B	D	A	D	A
<b>71</b>	<b>72</b>	<b>73</b>	<b>74</b>	<b>75</b>	<b>76</b>	<b>77</b>	<b>78</b>	<b>79</b>	<b>80</b>
A	A	B	C	A	A	B	D	A	A
<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>	<b>85</b>	<b>86</b>	<b>87</b>	<b>88</b>	<b>89</b>	<b>90</b>
A	D	D	C	A	A	B	C	A	B
<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>	<b>96</b>	<b>97</b>	<b>98</b>	<b>99</b>	<b>100</b>
B	D	A	D	B	A	D	A	B	B
<b>101</b>	<b>102</b>	<b>103</b>	<b>104</b>	<b>105</b>	<b>106</b>	<b>107</b>	<b>108</b>	<b>109</b>	<b>110</b>
D	A	B	C	A	A	A	D	D	A

