## **SET-01**

IAN	<u>1 – A</u>	[5]			
1.	Fill in the blanks:	[0.5]			
	a) The Upper part of the earth's crust is known as				
	b) hemisphere is known as land hemisphere.				
	c) tide occurs when there is right angle between				
	sun and moon				
	d) When ice is formed salinity of surrounding water	_•			
	e) is the largest ocean of the world.				
2.	Matching Table:	[0.5]			
	a) Continental shelf - well-lit layer				
	b) Aphotic - 2 <sup>0</sup>				
	c) Euphotic - twilight zone				
	d) Dysphotic - 4 <sup>0</sup>				
	e) Continental rise - little or no sunlight				
PART	$\Gamma - \mathbf{B}$	[10]			
3.	Choose the correct answer or True/ False statement:	(1 mark)			
	a) Tides are horizontal movements of ocean water.				
	b) Earth's rotation(Coriolis force) is a factor influencing Ocean currents.				
	c) Wind energy is the primary force behind ocean wave formation.				
	d) Temperature is determined by measuring electrical conductivity of	of seawater			
	e) T-S diagram is useful in identifying water masses.				
4.	Differentiation or define or abbreviations or statement:	(1 mark)			
	a) SIAL				
	b) PPT				
	c) Thermocline				
	d) Tidal Amplitude				
	e) Sea ice				

PART – C [5 marks]

- **5.** Describe in detail about the different layers of Earth's Interior with neatly labeled diagram.
- **6.** What is wave? What are the forces behind wave formation? Explain about Tsunami.
- 7. Describe diurnal, semi-diurnal and mixed tide. Explain the process of tide formation in brief.

- **8.** What are ocean currents? Explain Coriolis Force and its effect on ocean current. What is Ekman Spiral?
- 9. Write short notes on any One:
  - a) Pacific Ocean,
  - b) Indian Ocean

## **SET-02**

## $\underline{PART - A}$

2. Fill in the blanks:	[0.5]
a) The Inner Solid Core of earth consists of	
g) hemisphere is known as Marine hemisphere.	
h) tide occurs during full moon and new moon.	
i) Number of gms of dissolved salts in 1000 gms of sea water	
is expressed as	
j) El Niño is a climate pattern observed in ocean.	
10. Matching Table:	[0.5]
a) El Niño - Goa	
b) NIO - Little girl	
c) La Nina - Chennai	
d) Mariana Trench - Liitle Boy	
e) NIOT - Pacific Ocean	
PART – B	[10]
11. Choose the correct answer or True/ False statement:	[1]
a) Currents are vertical movements of ocean water.	
b) River flowing into the sea influences ocean salinity.	
c) Lunar gravitational pull is the main force behind tide formation.	
d) Freezing point of saltwater is -1.9°C.	
e) Thermocline is nonexistent in tropical ocean-water.	
12. Differentiation or define or abbreviations or statement:	[1]
a) SIMA	
b) NIO	
c) Halocline	
d) Tidal Range	
e) Colligative property	
PART – C (Answer any Three)	
	[5]
13. Describe the different features of Ocean floor with neatly labelled diagran	
14. Explain Wave Height, Wave Length, Wave Crest, trough and Wave period	
With suitable diagram.	
15. What is tide? Describe the Tide producing forces. Write the difference	
between Spring tide and Neap tide. <b>16.</b> Discuss in Brief about the physical properties of Ocean water.	
17. Write short notes on any One:-	
A) El Nino	
B) Upwelling and Downwelling	