

**S.Y.B.A. SEMESTER- IV,**

**NEW SYLLABUS OF GEOGRAPHY (w.e.f. : June 2016)**

**OCEANOGRAPHY**

**Code: DC-VII ( 445707)/ AC475407**

**Objectives:**

- i) To study the basic part of oceanography
- ii) To get the information about salinity and temperature of ocean water
- iii) To study the relationship between the temperature and ocean currents
- iv) To study the origin and effects of tsunami

<b>UNIT</b>	<b>TOPIC</b>	<b>SUB TOPIC</b>	<b>PERIOD</b>	<b>Marks</b>
1	Configuration and Submarine Relief of Ocean Floor	(a) Meaning and concept of Hydrosphere (b) Importance of the study of Oceanography (c) Surface configuration of ocean		20
2	Properties of ocean water	(a) Temperature of ocean water i) Distribution of Temperature of ocean water (b) salinity of ocean water i) Definition and meaning ii) Isohalines	17	30
3	Ocean currents	(a) Definition, meaning and types of ocean Currents (b) causes of origin of the ocean currents (c) Ocean currents of Atlantic and Indian		

4	Ocean coast and ocean Tides	<p>(a) Definition and nature of ocean coast</p> <p>(b) Types of ocean coast i) submergence coast ii) emergence coast</p> <p>(c) Ocean Tides</p> <p>i) Definition and meaning of ocean tides ii) Types of tides</p> <p>i) Spring ii) Neap iii) Importance of Tides</p>	16	25
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## Reference Books

- 1) **Ahirao, Alizad and Dhapate(2002):** Climatology and oceanography
- 2) **Bharambe, Dhake and Dr. V.J.Patil(2002):** Physical Geography Part-II ( atmosphere and Hydrosphere
- 3) **Garison T. (1998):** Oceanography, Wardsworth Company, USA
- 4) **Gralds S. (1980):** General Oceanography- An introduction, Jon Waley and Sons, New York.
- 5) **Lake P.(1981):** Physical Geography, Cambridge, University Press
- 6) **Majid Husain (2001):** Fundamental of Physical Geography, Ravat publication Jaipur
- 7) **Negi B.S.(2005):** Climatology and oceanography, Kedarnath and Ramnath Publishing , Meerut.
- 8) **Padey, P.N. (2002):** Physical Geography, Nirali Prakashan, Pune
- 9) **Savindar sing (1992):** Physical Geography Prayag pustak bhavan, Allahabad.
- 10) **Sharma R.C. and M. Vatal (1970):** Oceanography for Geographers, Chaitanya Delhi.
- 11) **Strahler N. (1976):** Elements of physical Geography, Willey Nework
- 12) **Suryawanshi D.S., & Others ( 2011):** Geography (Lithosphere & Hydrosphere), Vrinda publication, Jalgaon
- 13) **Tikha R.N(1999) :** Physical Geography, Kedarnath and ramnath and co. Merrut
- 14) **Trewartha Robinson (1981):** Physical Elements of Geography, McGraw Hill Book Company, New Delhi
- 15) **Ummerkutty A.N.P. (1999):** Science of the Oceans, National Book Trust, New