

Questions should be —
WRITTEN IN LEGIBLE HANDWRITING IN BLACK INK.
SIGNS, SKETCHES OR FIGURES IF ANY BE DRAWN IN NEAT BLACK INK,
 so as to avoid mistakes in the printed question papers.

Duration 3 Hours.

Total Marks assigned to the paper 100

Model Answer paper

33768

Q. No.

Marks

N.B. :

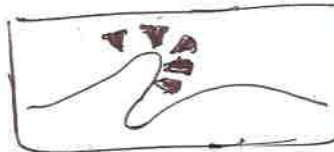
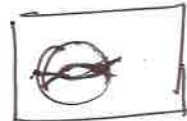
Q1. A) Name and mark the following.

(10)

- 1) Arctic Ocean - आर्क्टिक समुद्र
- 2) Bay of Bengal - बंगालचा उपसागर
- 3) Gulf of Finland - फिनलँडचे आखात
- 4) Korean Strait - कोरियाची सामुद्रधुनी
- 5) Peruvian Current - पेरूचा प्रवाह
- 6) Japan Trench - जपानचा गती
- 7) Java Island - जावा द्वीप
- 8) Iceland - आइसलँड
- 9) Labrador Current - लॅब्रडोर प्रवाह
- 10) Bering Strait - बाल्टिकची सामुद्रधुनी

Q1. B) Draw the following symbols or Abbreviations related to Navigation Chart.

(05)

1) steep coast or cliffs
कडा किंवा तीव्र उताराचा किनारा2) fishing Harbour -
भासेमारी बंदर

3) Light house

4) Neap tide
भासेची भरती

5) custom office



Q. No.

2) symbols related to navigation charts..

1) steep coast or cliffs — 2) fishing Harbour 

3) Light House LtHO

4) Neap tide NP

5) custom office c) Hydrographic map and answer related to questions -
(Appendix - 2)

1) Rajapur Bay and vijaydurg Harbour

2) projection given in Hydrographic map is — Gnomonic

3) Highest depth is 191 meter

4) Depth of water near GIRYE BAY is 111 meter

5) Main Harbour is given map — vijaydurg.

Q. 2.

Nature and branches of Oceanography -

- i) It studies Ocean — सागरशास्त्राचा अभ्यास
- ii) Dynamic of everchanging — बदलत असलेला
- iii) New discoveries — updatiny — नवीन शोध
- iv) Development of technology — सागरशास्त्राचा विकास
- v) changing nature — बदलत असलेला

Branches of Oceanography -

- i) physical Oceanography — भौतिक सागरशास्त्र
- ii) Chemical Oceanography — रासायनिक सागरशास्त्र
- iii) Biological Oceanography — जैविक सागरशास्त्र

(20)

Q. No.

Q. 2a) Characteristics of Pacific & Indian Ocean.

Marks

- i) Pacific Ocean is largest ocean in the world
- ii) It is located in betw East west Asia and American territory
- iii) In Southern part of Pacific Ocean, Atlantic Ocean and to the North Arctic ocean is located
- iv) The total area occupied by Pacific Ocean is 162,200,000 sq.Km.
- v) Pacific Ocean occupied 46% of total area.
- vi) The Pacific Ocean is known calm ocean.

- i) पॅसिफिक महासागर सर्वात मोठा महासागर आहे
- ii) हा महासागर आशियाच्या पूर्व किनाऱ्यावरील व अमेरिकन भूभागावरील पश्चिम किनाऱ्यावरील मध्ये स्थित आहे
- iii) पॅसिफिक महासागर महासागरांच्या ६ अंशांमध्ये महासागरांच्या व उत्तरेकडे आर्क्टिक महासागरांच्या मध्ये
- iv) पॅसिफिक महासागर जवळजवळ १६२,२००,००० वर्ग किलोमीटर क्षेत्रफळाने आहे
- v) पॅसिफिक महासागराचे ४६% क्षेत्र व्यापलेले आहे
- vi) पॅसिफिक महासागर शांत महासागर म्हणून ओळखले जाते

Development of Oceanography - सागरशास्त्र -

1845 - 1850 - 2000

1850 - 1900 - 3000

Development - 5000

Q. 3.

Factors affecting salinity of Ocean -

- i) Evaporation - वाष्पीभवन
- ii) Precipitation - पर्जन्य

(10)

(10)

(20)

Q. No.

- iii) Rivers - नदी
- iv) wind pressure & direction of wind - हवाचा दाब आणि दिशा
- v) Movement of Ocean water - सागरजलाची हालचाल
- vi) Seasonable change - ऋतूनुसारचा बदल

a) Note on continental shelf and continental slope: (10)

Continental shelf - 4 mark
 Continental slope - 4 mark
 or mark
 Diagram -

b) Horizontal distribution of temp. of Ocean water
 factors of distribution of ocean temp - 6 mark
 and types of ocean currents - 4 mark

सागरी प्रवाहांचे वेगानुसार, स्थानानुसार, खोलानुसार, सीमांत, लवचकानुसार विविध प्रकार -

Q. 4 Major Ocean currents of the world (20)

Major Ocean currents of the world
 D वर्गीत सागरी प्रवाह
 ii) Stream currents - i) warm current उष्णप्रवाह
 cold current - शीत प्रवाह, ii) surface current - पृष्ठप्रवाह, deep current खोल प्रवाह,
 Periodic current आवर्ती प्रवाह, Seasonal current
 coastal current किनारवारी प्रवाह etc

c) Types of Tides
 As per their height, length, and occupied area
 high tide, low tide, spring tide, neap tide etc

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Duration (3) Three Hours.

Total Marks assigned to the paper 100.

Q. No.		Marks
	N.B. :	
Q.4	<p>Effect of Tsunami on coast</p> <p>Meaning of Tsunami - (1)</p> <p>Effects of Tsunami -</p> <p>loss of lives - the slight and</p> <p>Economic loss - the and of the country</p> <p>Diseases - the of the country</p>	(20)
Q.5	<p>Relationship betⁿ ocean & global temp</p> <p>Meaning of global climate</p> <p>Effect of global climate, change on ocean current</p> <p>Global sea level rise</p> <p>Increase in ocean temp -</p> <p>acidification, loss of habitat, of marine species, increase human activity</p>	(20)
Q.6	<p>Causes of effect of marine pollution</p> <p>Defⁿ of marine pollution - the of the ocean</p> <p>Causes of marine pollution -</p> <p>1) Oil spills - the of the ocean</p> <p>sewage, sludge & wastes, cold water upwelling</p> <p>volcanic activities, industrial metal waste, mining waste</p> <p>Note on coral reef -</p> <p>Meaning - the of the ocean</p> <p>services - supporting services, cultural services</p>	(15)