



বিদ্যাসাগর বিশ্ববিদ্যালয়  
VIDYASAGAR UNIVERSITY

Question Paper

**B.Sc. Honours Examinations 2022**

(Under CBCS Pattern)

**Semester - VI**

**Subject: GEOLOGY**

**Paper : DSE-4T**

**Full Marks : 60**

**Time : 3 Hours**

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

**(Oceanography & Marine Science - Theory)**

A. Answer any **three** from the following questions :

5×3=15

1. Write short note on Tsunami.
2. Describe different types of tidal patterns.
3. Write about different features of Barrier Island.
4. Write short note on Oceanic Trench.
5. What is symbiosis? Explain different types of symbiosis.
6. What is "Coriolis Deflection"?

P.T.O.

B. Answer any *three* from the following questions : 15×3=45

1. Write differences between El Nino and La Nina.
2. Write a note on the different types of sub-tropical gyres and surface currents.
3. What is Wilson cycle? Explain different stages of Wilson cycle with proper diagram.
4. What are the adaptations developed by organisms living in different zones of rocky shore? Give examples of organisms living in each zone.

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*Or*

**(Geodynamics - Theory)**

A. Answer any *three* from the following questions : 5×3=15

1. What are the possible causes of plate tectonics? 5
2. What is triple junction? Which type of triple junction is more stable and why? 2+3
3. What is relative and absolute plate velocity? How these two can be measured discuss briefly citing suitable examples. 2+3
4. Why does the depth of the sea floor increase with increasing distance from ridge describe with proper sketch? 5
5. Discuss briefly about magnetic anomaly and its relationship with sea-floor spreading found in ridges. 5
6. What is ophiolite? Why do two continental plates collide with each other instead of subducting beneath each other? 2+3

B. Answer any *three* from the following questions : 15×3=45

1. Write short notes on : 7½×2=15
  - (a) Convergent boundary
  - (b) Wilson cycle

2. Write short notes on : 7½×2=15
- (a) Magmatism in ridges and subduction zones
  - (b) Transform boundary
3. Describe briefly about Wegner's continental drift hypothesis. 15
4. Give a brief overview about tectonic evolution of India over geological time during the formation and break-up of Rodinia and Pangaea supercontinent. 15
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