

1. Time velocity asymmetry of tide.
2. Coastal morphodynamics.
3. Factors for the development of coastal landforms.
4. Morphology of a coast clearly indicates the relative dominance of the morphodynamic processes that have shaped it ----- Illustrate/Explain.
5. Wave induced currents.
6. Littoral energy fence.
7. Coastal cells.
8. Classification of tidal range.
9. What do you understand by bioturbation? Discuss the major agents and processes of bioturbation in a tropical microtidal coast
10. What do you understand by classical theory of Mangrove Succession? How can coastal evolution be linked to it? Discuss with example.
11. How storm surges/tsunamis generate? Discuss their geomorphic effects on the coast and possible management options.
12. Classify rhythmic beach topography and discuss the causes of its evolution.
13. What are the basic differences between desert dunes and coastal dunes?
14. How do coastal dunes form? What is coastal dune and desert dune? Attempt a morphological classification of coastal dunes.
15. Classification of delta.
16. Bring out the salient features that characterize badland topography. How do badland initiate or evolve/ what are the major factors for initiation and/or evolution of badlands (Indian example)?
17. How do tower and cone karst evolve? How their morphology is distinguished from other karstic region?
18. Discuss the role of geomorphology may play in urban development and town planning. What are the major types of water management in a tropical urban area, situated in a monsoon climate?
19. Discuss the individualities of badlands of Garbeta and Santiniketan. Make a comparative assessment of future evolution of gullies/ badlands in these two regions.
20. Discuss the characteristics of alluvial fan. Bring out the typical land use and landform of alluvial fans of sub Himalayan West Bengal.
21. Discuss the ways of defining estuary as a geomorphic unit.
22. What are the major geomorphic problems of estuary and account for the causes?

23. How has the coastline of Indian part of the lower Ganga delta evolved during 200yrs? Account for the changes.
24. Discuss the role of Damodar Valley Project in management of river discharge in Lower West Bengal.
25. Discuss the role of Farakka Barrage in diversion of Ganga water. Comment on its effect on long term geomorphic and hydrological evolution of the area.
26. Discuss the problems associated with reclamation of low lying coastal areas. How to manage this?
27. Assess the pattern of River Bank erosion (seen in Malda and Murshidabad) associated with the course of Ganga in West Bengal. Identify the problems caused by it and suggest management of the problems.
28. What are the causes of coastal erosion seen in Digha coastal area? What measures have been taken to combat it? Comment on their feasibility in the perspective of long term evolution of coastline.
29. What is landslide? Briefly discuss the causes of landslide in particular reference to Eastern Himalaya.
30. Give a systematic definition of landslide. Explain the characteristics of various types of landslides. Suggest suitable measures to check landslides.
31. How far landslide is related to structural instability?
32. Distinguish between hazard and disaster. Why landslide is considered as quasi natural hazard? Relate your statement with examples from Eastern Himalaya.
33. Give a systematic nomenclature of landslide with suitable diagram. What are the different types of geotechnical investigation necessary to combat the landslide hazard?