

Total Marks-30

Answer any five questions

1. Define mid-ocean ridge? How is mid-ocean ridge formed? How it is related to sea-floor spreading? (2+2+2=6 marks)
2. What is the depth range of a typical deep-ocean basin? Which types of geological feature are commonly encountered in deep-ocean basin and why? [2+4= 6 marks]
3. What is residence time? How is residence time linked to ocean salinity? Which instruments can be used to monitor salinity of coastal water [1+3+2= 6 marks]
4. Define pycnocline. What is the significance of global drifter array in understanding SST? How seasonal thermocline is formed? [1+3+2= 6 marks]
5. How deep-sea fan can be linked to the formation of continental rise? [6 marks]
6. The fossil shell of Foraminifera contributes to the record in sediments. How does it contribute to sedimentary record? [6 marks]
7. Salinity displays a latitudinal relationship related to precipitation and evaporation- explain this statement [6 marks]

