THE BEACHES ARE MOVING

1. On barrier islands, the only constant is _____________________.
2. The beach includes sand to a depth of ________________________.
3. The net movement of sand in fair weather is _____________________.
   The net movement of sand in stormy weather is _____________________.
4. Describe 3 ways a beach is changed by the passage of a storm:
   1)
   2)
   3)
5. The net flow of sediment along the Carolina Coast is from _______ to _________.
6. The amount of sand moving along the Carolina Coast is ______ thousand yd³ per year.
   The amount of sand moving along the California Coast is _____ million yd³ per year; or _________
   dump trucks per day.
7. At tidal inlets there is a constant battle between _____________ that try to keep the inlet open and
   ____________________________ that try to choke it with sand.
8. At present, there are ______ inlets; in the past there have been _______.
9. The islands began forming ________________ years ago when sea level was ______ below its present level; the shoreline extended ______ miles east of today’s shoreline.
10. Describe how the barrier islands moved in response to rising sea level.

11. Explain how barrier islands “roll over themselves.”

12. Two pieces of evidence for barrier island migration can be found exposed on the ocean beach. They
    include _______________________________ and ________________________________.

13. What is the cause of today’s high grass-covered dunes and large maritime forests on barrier islands?
    How does this account for the high dunes?

14. Why did native tribes only live on the islands seasonally?
15. List several examples of how early communities “lived with the island?”

16. What happened to Diamond City?

17. List several ways that building practices changed after World War II?

18. What happens in “New Jersyization?”

19. Three types of hard stabilization include:

| a. Groin | Purpose: |
| Results/Problems: | Draw a diagram: | Note: you can use your textbook for help. |
| b. Jetty | Purpose: |
| Results/Problems: | Draw a diagram: |
| c. Seawall | Purpose: |
| Results/Problems: | Draw a diagram: |

20. What are two practical (not philosophical) problems with replenishment?
   1)
   2)