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***** EXAMINATION *****

TIDAL BOUNDARY PROBLEMS FOR LAND SURVEYORS

1. **In United States v. California in the Supreme Court,**
 - a) the boundary was the ordinary low water mark
 - b) the boundary was the high water mark
 - c) the boundary was the mean high water mark
 - d) the boundary was the mean low water mark

2. **The term 'ordinary'**
 - a) could be better defined as mean
 - b) raised problems of interpretation
 - c) could be better defined as tidal
 - d) None of the above

3. **The California coastal tide:**
 - a) has two low waters of unequal heights
 - b) has ten different cycles
 - c) has twelve different cycles
 - d) has fourteen different cycles

4. **The farthest offshore boundary line would be fixed by:**
 - a) the mean high tide
 - b) the high tide
 - c) the higher low tide
 - d) the lower low tide

5. **The greatest difference between the two low tides takes place at:**
 - a) Agam Bay
 - b) Ogai Bay
 - c) Crescent City Bay
 - d) Chula Vista Bay

6. **The term with the most specific definition in tidal terminology is:**
 - a) mean
 - b) ordinary
 - c) approximate
 - d) average

7. **The River and Harbor Act of 1915 referenced channel depths by:**
- a) mean high tide
 - b) mean low tide
 - c) lower low tide
 - d) low tide
8. **The Coast and Geodetic Survey (NOAA) and the Corps of Engineers:**
- a) use mean high and mean low tides respectively
 - b) use mean low and mean high tides respectively
 - c) both use lower low tides respectively
 - d) both use various tides for reference
9. **The period for determining tidal cycles is:**
- a) 5 years
 - b) 9 years
 - c) 12 years
 - d) 18.6 years
10. **The orbit of the moon is inclined on the average:**
- a) 12 degrees to the earth's equator
 - b) 23 1/2 degrees to the earth's equator
 - c) 29 degrees to the earth's equator
 - d) 33 degrees to the earth's equator
11. **Every bay:**
- a) over 20 acres has its own period of oscillation
 - b) over 50 acres has its own period of oscillation
 - c) over 90 acres has its own period of oscillation
 - d) has its own period of oscillation
12. **The difference between morning and afternoon tides is called:**
- a) lunar attraction
 - b) solar gravity
 - c) diurnal inequality
 - d) tidal irregularity
13. **The term synodic is equal to:**
- a) lunar
 - b) solar
 - c) polar
 - d) equatorial
14. **At new moon,**
- a) the sun and moon are in line and on the same side of the earth
 - b) the sun and moon are in line and on the opposite sides of the earth
 - c) the sun and moon are in eclipse
 - d) None of the above

15. **Spring tides occur at:**
- a) old moon
 - b) new moon
 - c) first quarter moon
 - d) last quarter moon
16. **Neap tides have a:**
- a) large difference between high and low tides
 - b) medium difference between high and low tides
 - c) small difference between high and low tides
 - d) None of the above
17. **Bench marks in the United States are referenced to:**
- a) diurnal tides
 - b) low tide
 - c) high tide
 - d) mean sea level
18. **A sounding is the:**
- a) depth of water
 - b) elevation of the sea floor
 - c) acoustic device that measures elevations
 - d) acoustic device that measures depth
19. **Choosing the datum results:**
- a) in a more precise determination of sea topography
 - b) in a more accurate determination of sea topography
 - c) in a less accurate determination of sea topography
 - d) None of the above
20. **Las Siete Partidas are:**
- a) the seven different tides
 - b) the seven types of vegetation along a shore
 - c) the body of Spanish water law written in the 13th century
 - d) None of the above
21. **The tidelands are above the:**
- a) high water boundary
 - b) low water tidal plane
 - c) high water tidal plane
 - d) All of the above
22. **English courts defined the flux and reflux of the sea at ordinary tides:**
- a) as the vegetation line
 - b) as the shore
 - c) as the inland
 - d) None of the above

23. **Littus maris** refers to:
- a) the tide
 - b) the seashore
 - c) the bank
 - d) a meadow
24. **The result of *Teschmacher v. Thompson* was:**
- a) monthly spring tides were defined
 - b) mean sea level was defined
 - c) neap tides were defined
 - d) unclear language and uncertain directions
25. **Early English court water boundary decisions were probably caused by:**
- a) cheap waterfront property values
 - b) lack of research
 - c) feudal wars
 - d) All of the above
26. ***Borax Consolidate Ltd. v. Los Angeles* was important because:**
- a) it held the Coast Survey (NOAA) definition of mean high water
 - b) it recognized neap tides
 - c) it recognized spring tides
 - d) All of the above
27. ***Wonson v. Wonson* dealt with:**
- a) the inundation of meadows
 - b) the location of salt water
 - c) the subdivisions of flats within a cove
 - d) the effect of reservoirs on inland waters
28. **The Coast Survey (NOAA) recognizes the word ordinary as equal to:**
- a) diurnal
 - b) mean
 - c) neap
 - d) periodic
29. **California became vested with its tidelands in:**
- a) 1832
 - b) 1840
 - c) 1844
 - d) 1850
30. ***Patto v. City of Wilmington* held that:**
- a) changes by artificial causes do not change the water boundary
 - b) the neap tide is the seashore boundary
 - c) the spring tide is the seashore boundary
 - d) None of the above

31. **Accretion resulting from jetties:**

- a) do not affect the water boundary in California
- b) do affect the water boundary in California
- c) may affect the water boundary in California
- d) None of the above

32. **The matter of artificial accretions is a moot point because:**

- a) states rights rule
- b) federal rights rule
- c) federal agencies approve all artificial structures along the coast
- d) All of the above

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