

LAB: TIDAL RANGE ANALYSIS

Answer the Following Questions (please circle your answer for questions 1-6)

1. What type of relationship exists between tides and time? DIRECT INDIRECT CYCLIC STATIC
2. What celestial object(s) cause the tides? SUN MOON TERRESTRIALS SUN and MOON
3. What force causes the tides? FUSION VELOCITY GRAVITY DECAY
4. A higher than usual tide is called a: NEAP TIDE SPRING TIDE GRAVITY TIDE CYCLIC TIDE
5. Our lab times were rounded, however a student recorded more accurate times for three successive high tides at one location as:
9:12 a.m., 9:38 p.m., 10:04 a.m.. What is the approximate time of the next high tide?
A) 11:04 p.m.
B) 10:38 p.m.
C) 10:12 p.m.
D) 10:30 p.m.
6. The Moon has a greater effect on the Earth's ocean tides than the Sun has because the
A) Moon is closer to the Earth than the Sun is
B) Sun has a higher temperature than the Moon
C) Moon has a greater mass than the Sun
D) Sun has a higher density than the Moon
7. What are the two possible moon phases for a spring tide to occur? _____
8. What are the two possible moon phases for a neap tide to occur? _____

