SECTION 4 Questions 31–40

Complete the notes below.

Write ONE WORD ONLY for each answer.

Marine renewable energy (ocean energy)
Introduction
More energy required because of growth in population and 31
What's needed:
renewable energy sources
methods that won't create pollution
Wave energy
Advantage: waves provide a 32source of renewable energy
Electricity can be generated using offshore or onshore systems
Onshore systems may use a reservoir
Problems:
waves can move in any 33
• movement of sand, etc. on the 34 of the ocean may be affected
Tidal energy
Tides are more 35than waves
Planned tidal lagoon in Wales:
will be created in a 36 at Swansea
breakwater (dam) containing 16 turbines
rising tide forces water through turbines, generating electricity
stored water is released through 37, driving the turbines in the reverse direction
Advantages:
not dependent on weather
no 38is required to make it work
likely to create a number of 39
Problem:
• may harm fish and birds, e.g. by affecting 40 and building up silt
Ocean thermal energy conversion
Uses a difference in temperature between the surface and lower levels Water brought to the surface in a pipe