Start here. (a) The m	navine environment would have
Pristly rusted th	he metal strips around the top
and bottom of	the artefact. Being sumber
submerged une	der sea water for 150 years,
the wood was	ald have a high level of
pasic salts laro	ound a pH of 8) absorbed looding
Me to the autofo	act being brittle and pasmay
hous alwards	storted to crack when retneved.
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b)	
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(c) Steel 4, containing the least amount of
(c) Steel 4, containing the least amount of Iron (75°10) but higher amounts of Nickel (10%)
and Chromium (15%) show that it is less
likely to must. This is because it is Chromium
is a passivating metal and forms layers over
scratches as they appear by displacing other
motals. (such as Nickel).
The high percentage of Ivon in steels 1,2,3
determine that it will corrode quicker if exposed
to salty water and therefore most is most the
best candidate for industrial items on land
rather than industrial items innereg imersed
in water.
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4. 이 회사 가능하는 것으로 전한 마이는 이미를 하다는 말이하다. 지금까지 사이지는 영향 가장 하셨다면 하는 것 않는 것을 가게 되었다면 가장 사람들이 되었다. 그는 것 같은 그는 것은 것으로 그렇다는 것 같습니다.

Question 33 Band 2/3 sample 2 Start here. (d)(1) Three environmental factors that could be tested in a school laboratory aro: 1. Whether acidic, basic or neutral water conditions affect the rate of corrosion (speeds up or slows down). 2. Whether the rate of corrosion is changed (faster or slower) due to an increase or decrease in oxygen 3. Whether a waterproof paint slows down or speeds up the vate of corrosion. This experiment could be done in test tubes. For experiment 1, three test tubes would be needed with an each tube howing either an acidic, basic or neutral solution. For experiment 2, two test types would be used, one with a stopper on it to prevent excess oxygen entening painting a nail with waterproof paint wand leaving another now! untouched would be experiment 3. Nails would be imersed into the liqui water or solution and kept there for a period of time. (11) Pollution from industrial factories into water ways a of makes the marine environment slightly acidic in some areas.

polluted waste could reduce the vorte of corrosion by sustaining it in the ocean by existaining its basic pH of around 8.

(e) For wooden artefacts, the techniques used to conserve them involve saturating the object with pure water to extract all of this is called salination the salts that have been absorbed. These Salfs need to be removed so that they do not crystallise inside the wooden outefact and crack the object. Electrolysis then used to remove the remaining bacteria and rust. Electrolysis is also used in the process of rem restoring copper artefacts so that the object is not damaged. These methods are an appropriate way of restoring artefacts as they do not damage the object the but also prevent it from the further corrosion.

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