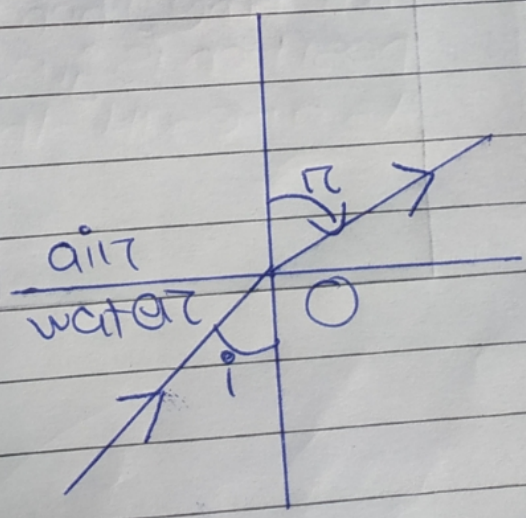
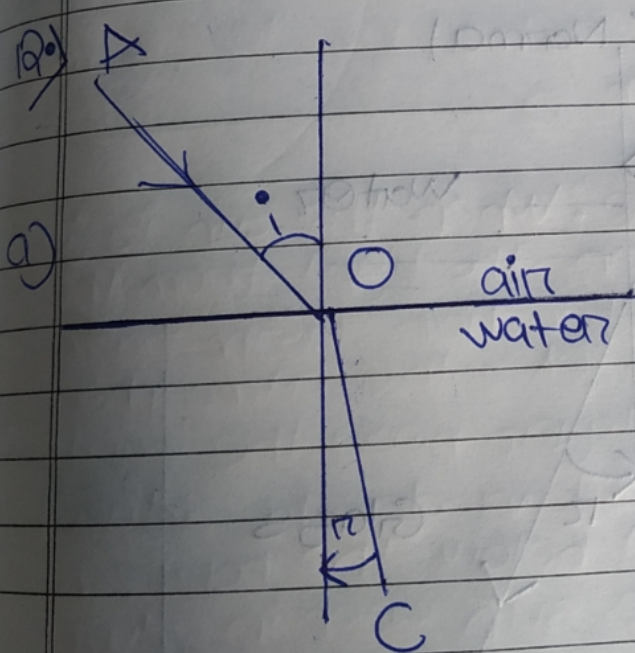
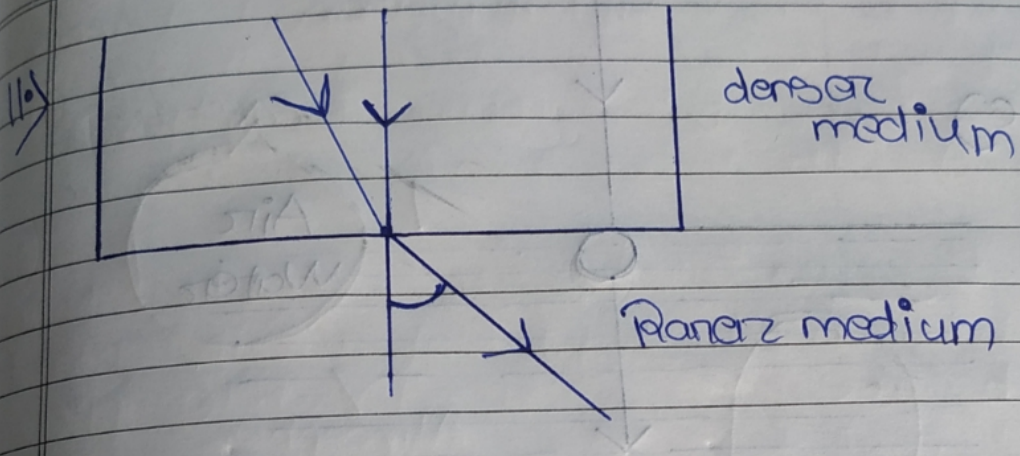
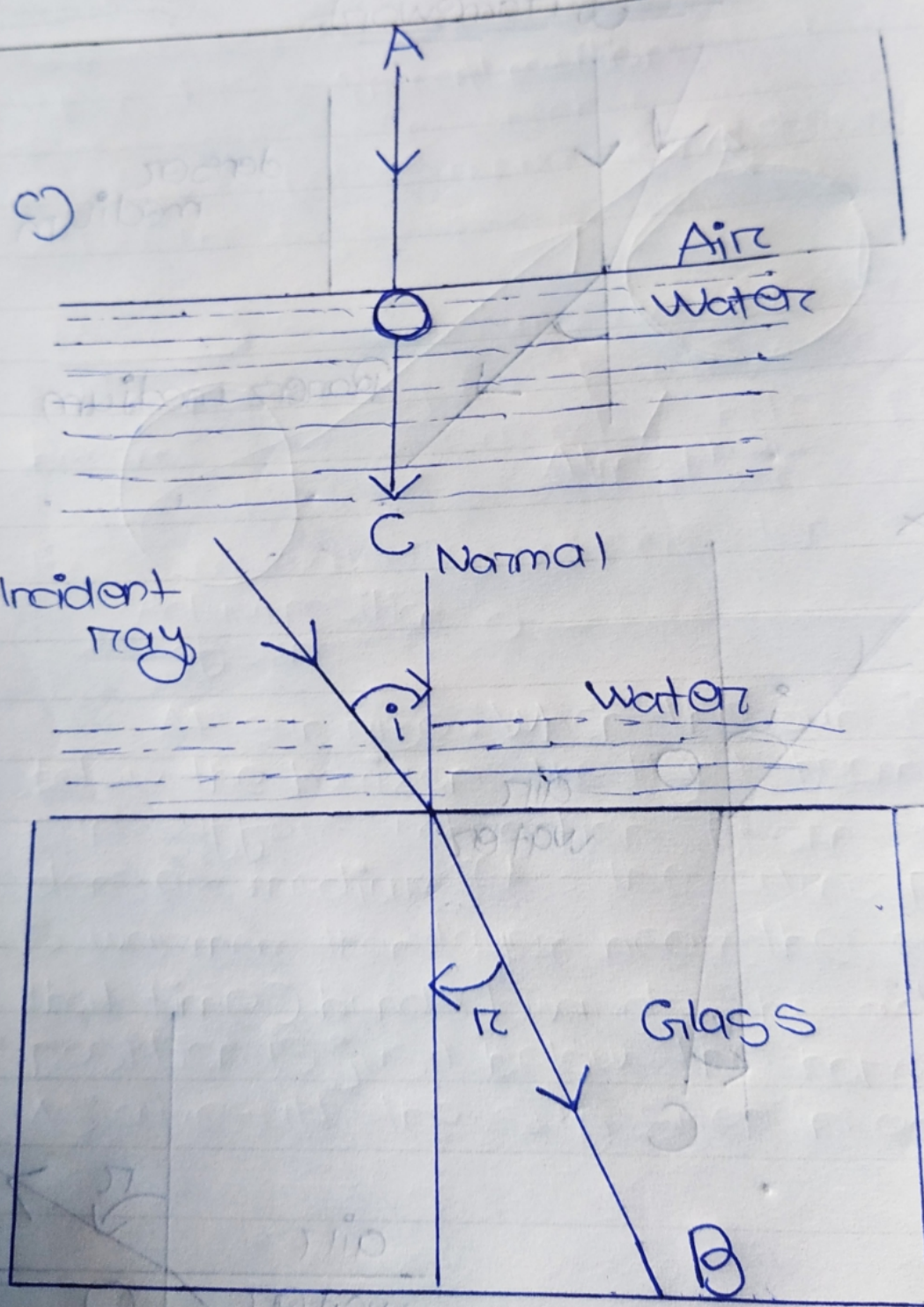


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18.1

Incident ray

C Normal

Water

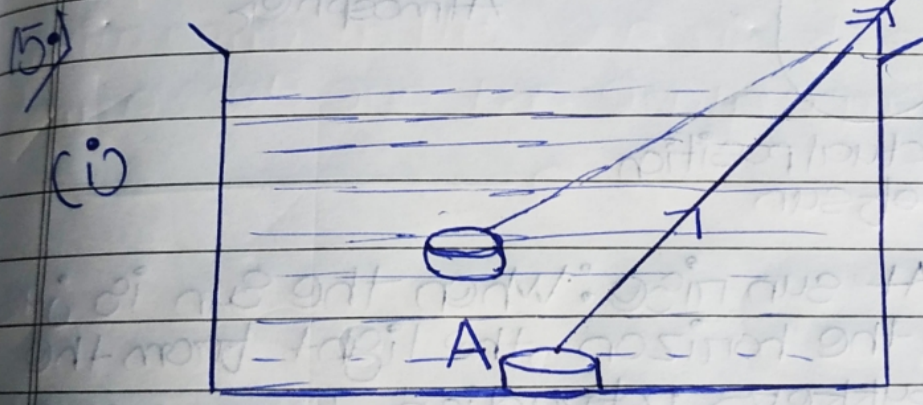
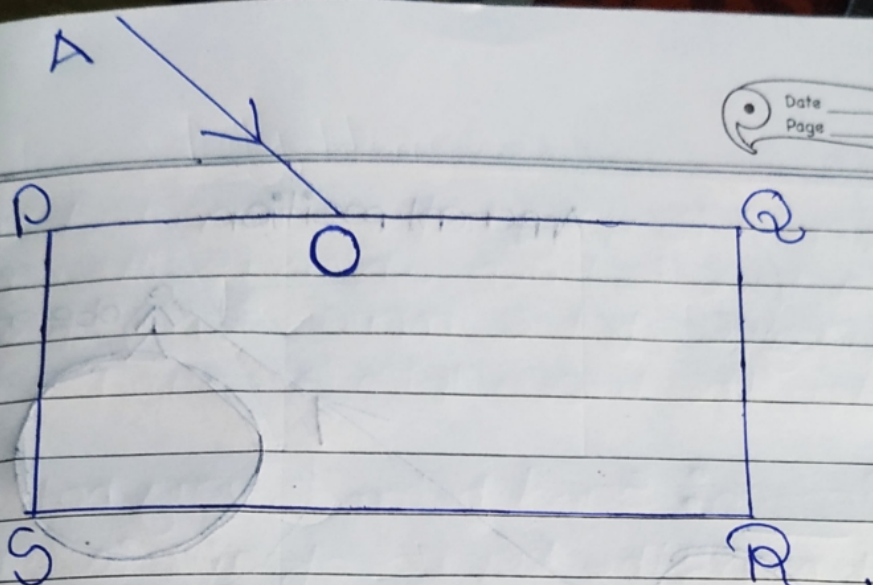
Glass

B

r

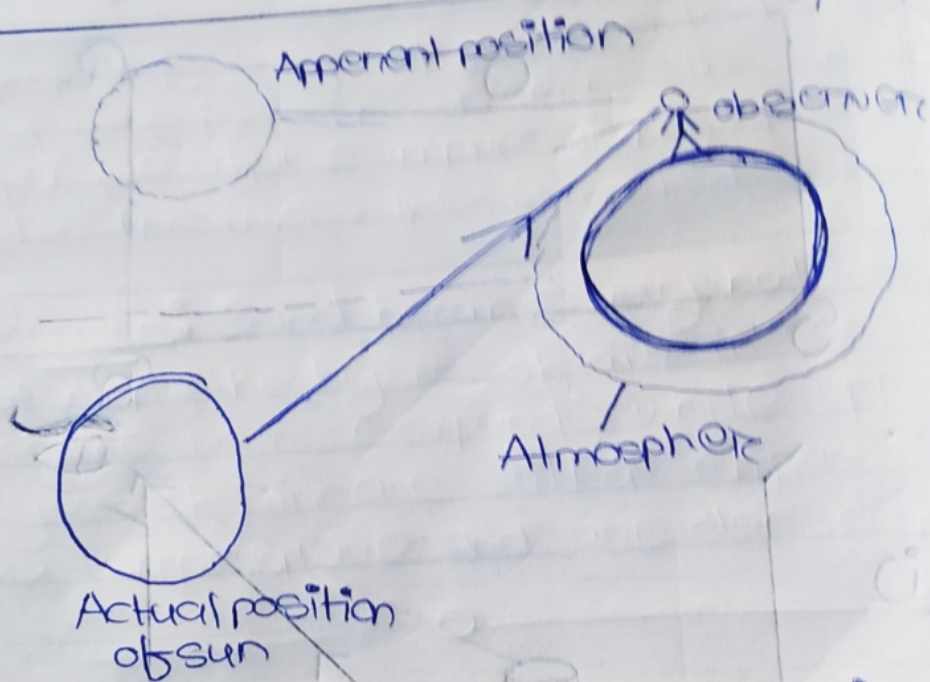
O

A



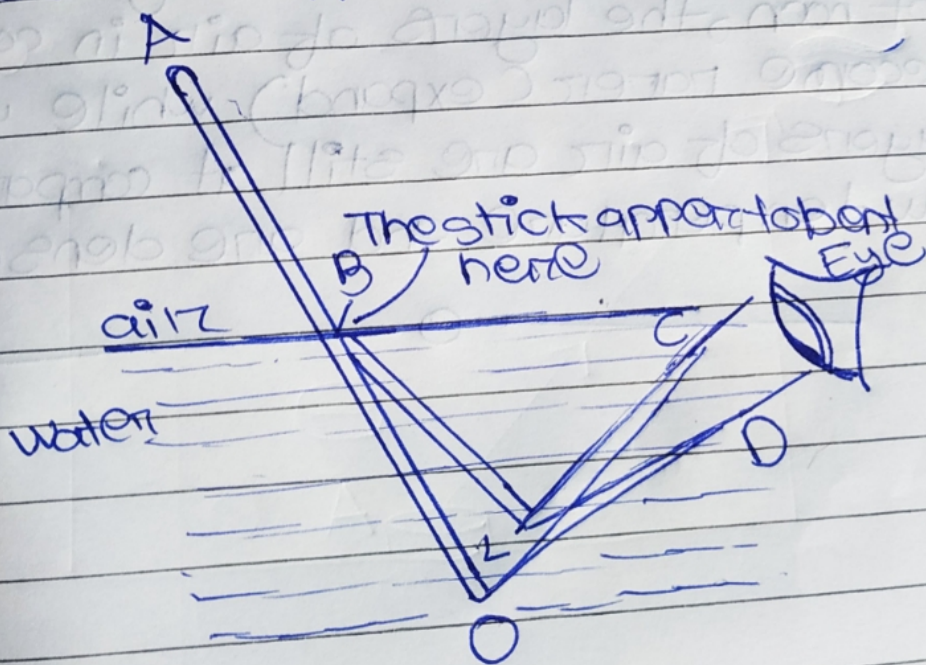
The ray of light starting from A (denser) medium bends away from the normal. Due to the refraction of light, the coin appears at B at a lower depth.

(ii)



At sun rise: When the sun is just below the horizon, the light from the sun suffers refraction from rarer to denser medium (As the atmosphere is warmer than layer near the earth that time) bends towards the actual position is just below the horizon. As a result the sun seen in advance.

Q11) A ray of light coming OC from O passes from water into air and gets refracted away from normal (along CX). Another ray OD gets refracted along DY. The two refracted rays CX and DY when produced backwards appear to meet at the point I.



16) When it is very hot, an inverted image of a tree is seen which is illusion of eye (give a false impression) of water under the tree. This is called a mirage.

Reason: Sand becomes very hot during hot noon, the layers of air in contact become rarer (expand) while upper layers of air are still at comparatively low temperature and are denser medium.

