

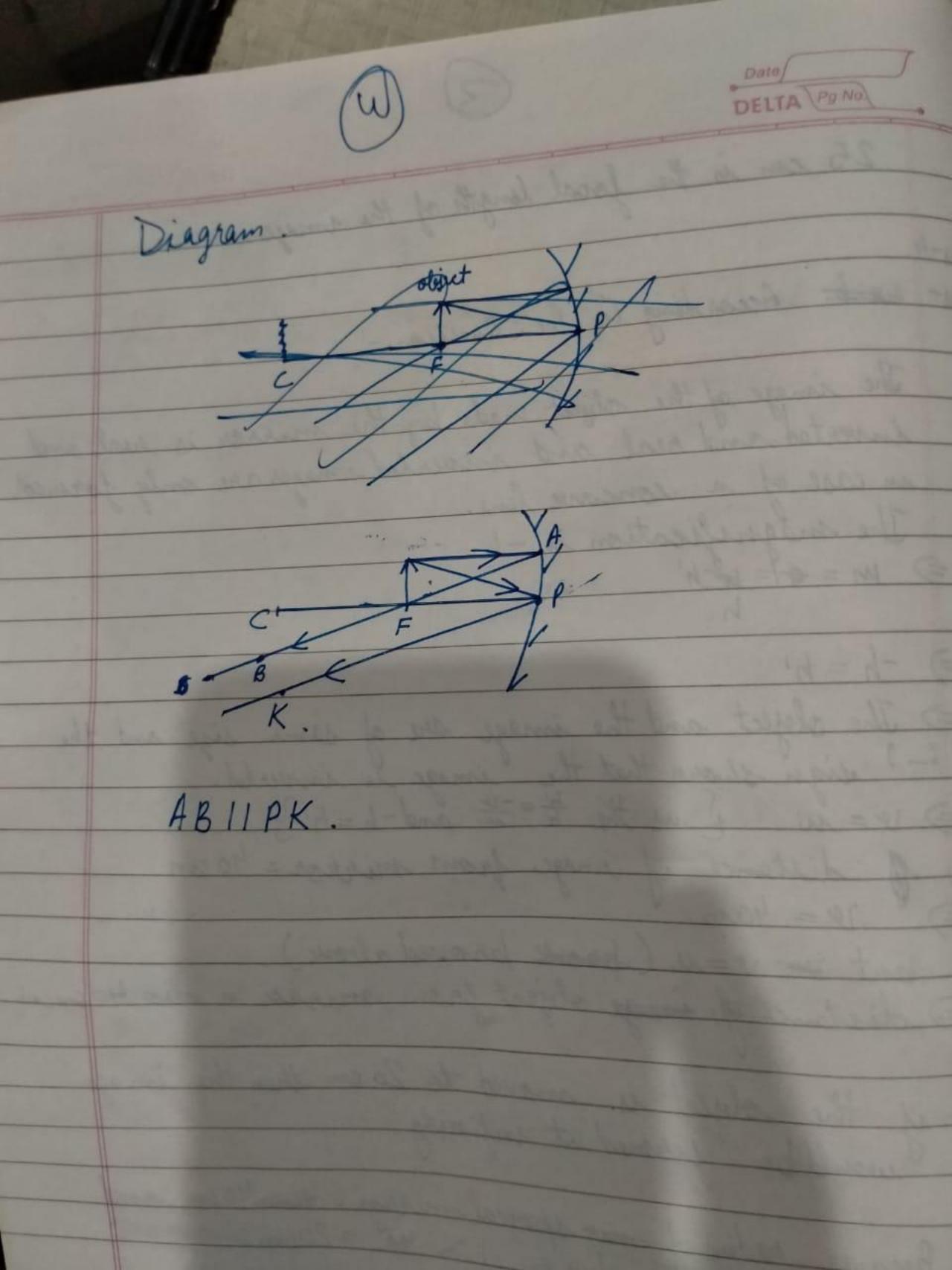
25 cm is the Jocal length of the image. Ans- we be According to the Question:-The image of the object made by the mirror is real and inverted images are only formed in case of a concave lens. The magnification is -1 => m = 41= 12h' The object and the image are of same size and the image is inverted.

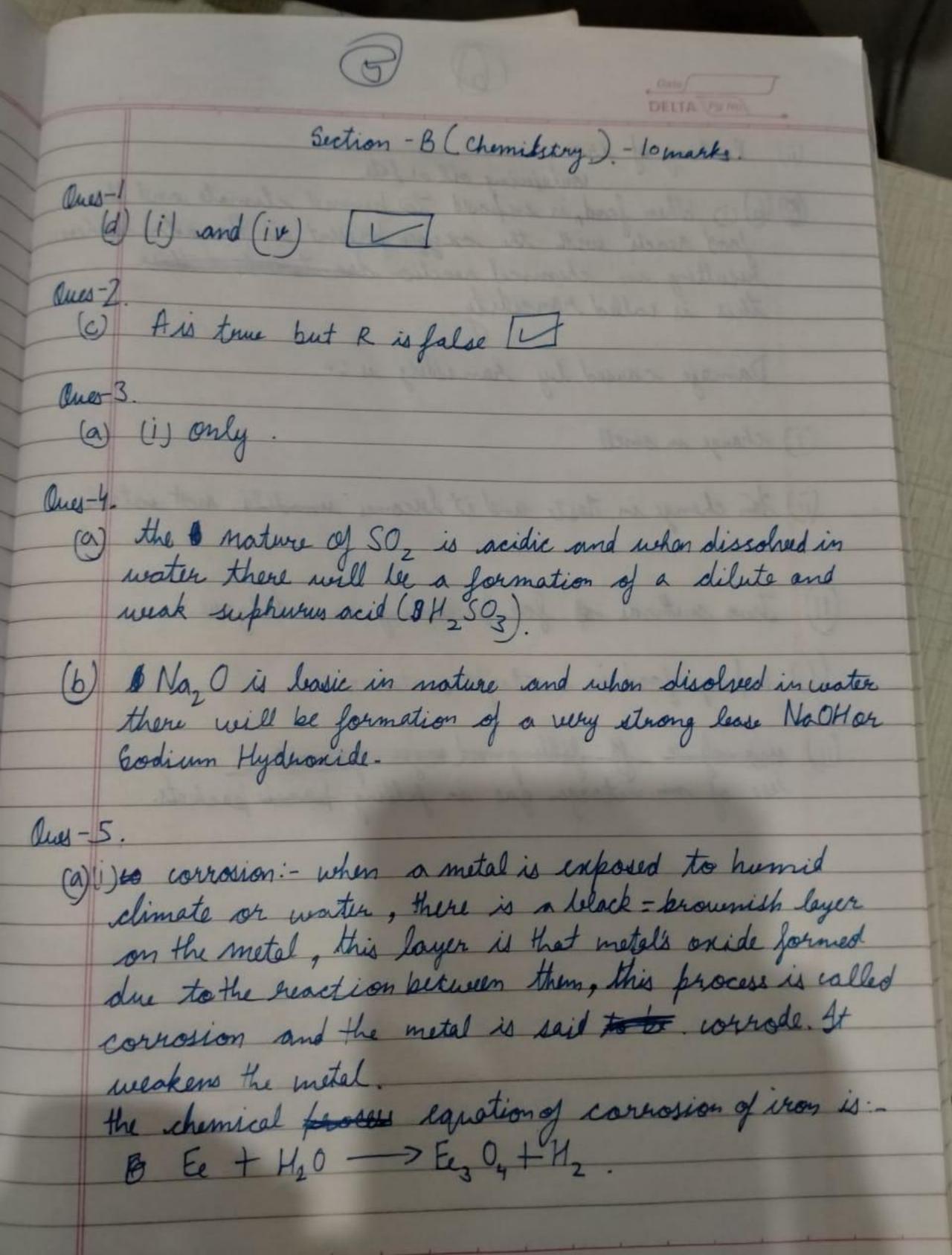
=> v = u. & as the th = = = and - h = h' &

(i) of distance of image from mirror = 40 cm.

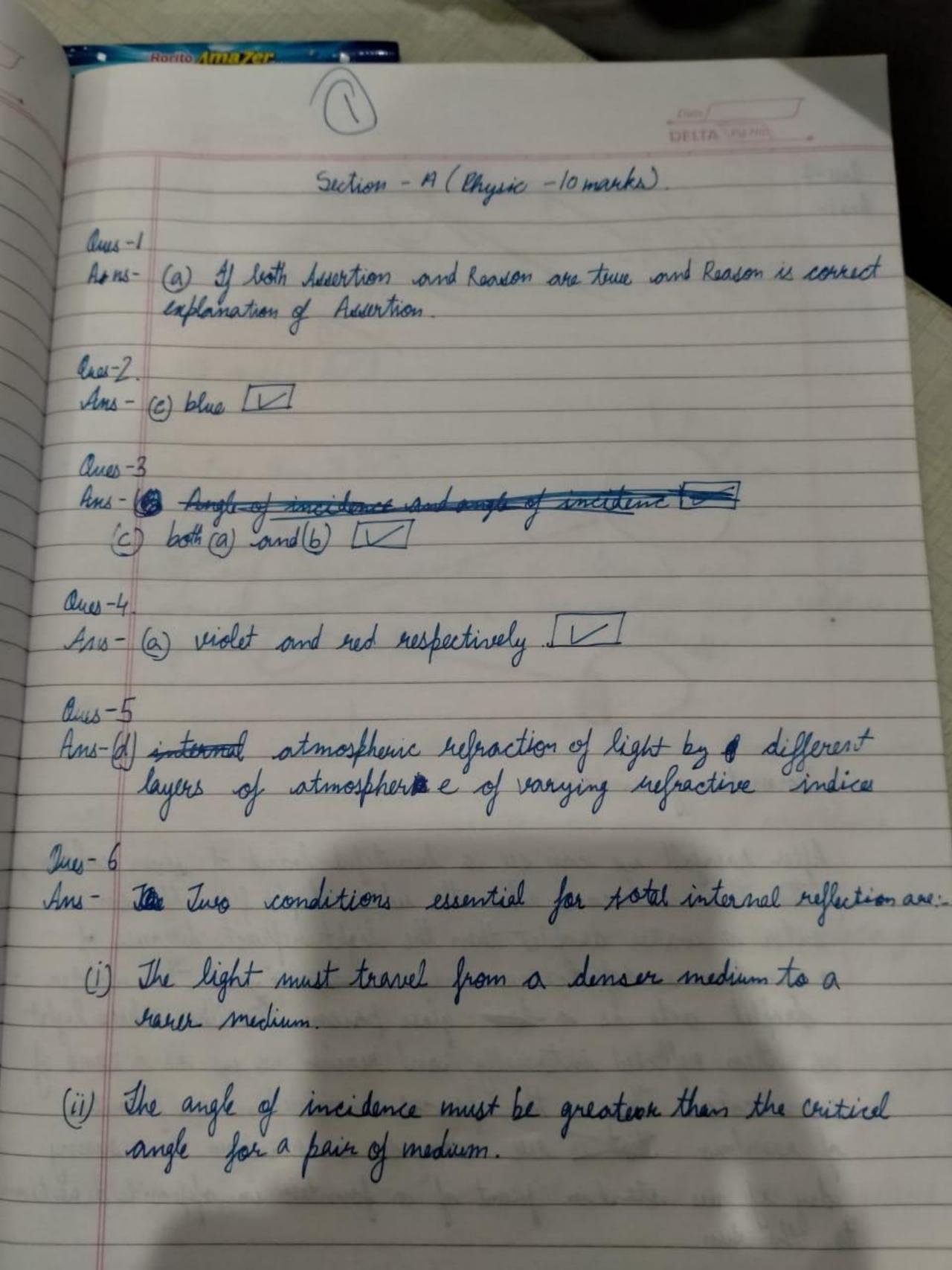
=> v = 40cm. but we v=u (prove proved above). = distance of image object from mirkor is also 40 cmcm (ii) if the object is moved to 20 cm then the image would be journed at infinity. (ii) Because hading of some sporical mithor = local 40 cm and focal length = 1 x radius = 1 x 42° = 20 cm.

Secus is at a distance of 20 cm from the mirror. The object is placed at the focus of the minerar and me know that when object is placed on the focus of a concave mirror to the image is formed at infinity.





(6) (i) When food, is emposed to humid climate and the food reacts with the oxygen present in the astmosphere resulting in chemical reaction due to the their this is called rancidity. (ii) Rusting of iron. containing oil or lats. Damage caused by runsidity is :-(i) change in smell (ii) then change in teste and it becomes unedild not eatable (1) Iwo methods of for presenting rancidity are: () keeping good in air-tight containers.



lus-7 ns:-Ane-(d) weak Ques-2 Ans (a) (i) Que -3 Ans - (a) water dropot HumanE Formation of rainbow: -1 After rainfall we can see a beautiful bound of seven colour, this is because when the white light from the sun enter a water droplet then the light refracts because of e variation in refractive index e the marter droplet acts as a trie glass prism. to The white light is then reflected internally and reaches our eye as a band of seven colone this is the process involved in the formation of rambow. That is we can see a rainbow on a sunny day if we stand in front of a fountain in apposite direction to the sun.

Section - B (Chemistry - 10 marks). Ans-(d) weak acid and strong leave [ Ans-(a) (i) and (ii) Ans-(a) less than 7 [1] The social present in ant sting is Formic acid and its chemical formula is  $CH_2O_2$ . The method to get relief is by using an antacid. Ans-(a) Ca(OH) 2 combines with the contine to form bleaching powder (b) Nall, NH3, H2O and CO2 are the four enbstences utilized in the production of washing sode. (c) 2 GSO4. H2O is the compound which represents blader of d). No. HCQ is the compound totals that is a part of baking (e) No HCOz is the compound that is used as an antacid

