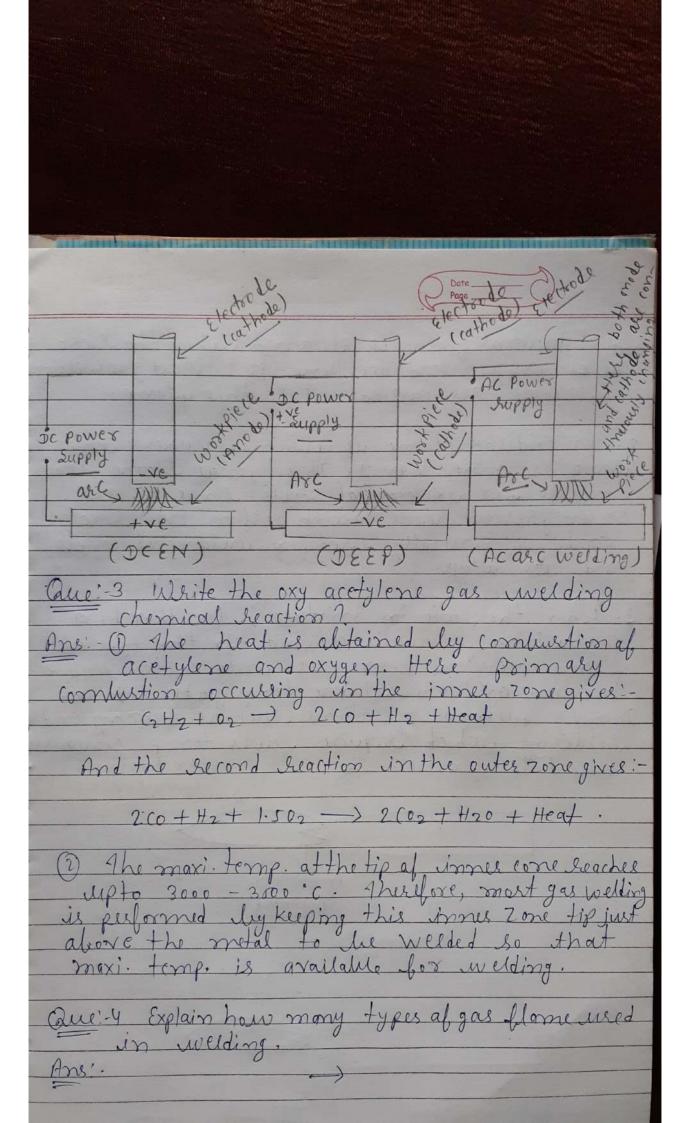
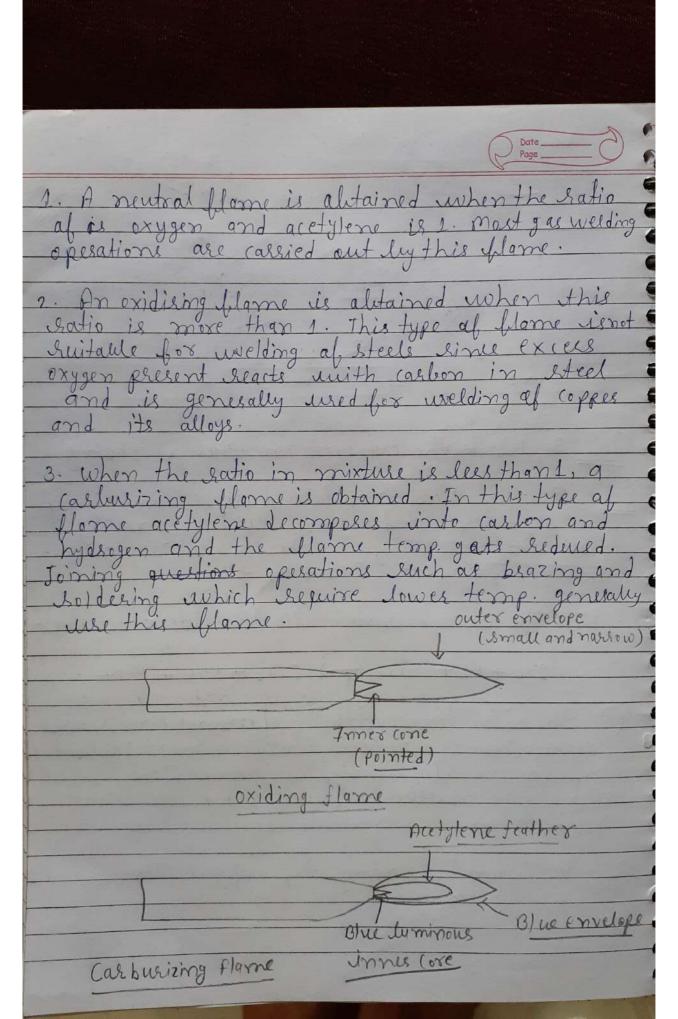
MELDING SHOP Name: - Mohit Agrawal Batch: - B-10 Roll No. : - 19103053 Assignment: - 2 Que: I what is welding? Describe the arc Welding process for joining two similar or dissimilar metals by fusion welding is an atomic hounding process of the metallusgical shound is accomplished. the attracting forces between the atom Arc Welding : > principle: first, the contact is made that two cathode to Create an electric circuit. when established they are low of current is reperated by small distance and are is formed. Actually are is a sustained electric discharge through the ionized gas column (called plasma) but two electrodes. from anode are impinging in cathode thus dibreating heat when 75% of heat is generate at the anode then electric energy is convert into intense heat in the arc which attains the temperature around 5500°C

If the air gap becomes too large for voltage the armay be extinguished larger air gap requires higher potential differences. The work piece is kept on the metallic table one cable from power supply is connected to the electrode holder into which the electrode is gripped. Other lead is connected to the metallic table on which work piece is kept: when the electrode is brought into contact with work piece are generates and welding takes place. The: - In case of Dr. are welding about and hert of heat is generated at cathode. if more heat is required on the work piece, materials having high thermal conductivity. The work piece may be Made as anode likerating large heat near it. This arrangement is termed as straight polarity or DCEN (direct current electrode negative): for thinner materials where less Acquired in the welding zone, the work piece may be made as cathode, this is termed as reverse polarity or DCEP (direct aurent electro de positive) Los difficult tasks such as overhead welding maintaine stable axc. of polarity herance and early cathode will interchange after every half cycle.





2100°C (3800 F) 1260°C (2300°F) (5500-6000°f) Neutral flame