

device .22/80 3) The Ame for which elected / Recom prospop to acyopusui 10/777 SEU is our capable of breaking the The hearing effect of electric current 2010 wasto out to sociality puo uporest suf puo monde onto send souto out atai batologo planize of the bottoon top octu Interest of the motorial furt heat packed to the the took out the general station to the consumer. The starrant of the current word Patting neet SI his epops work (1 enable pritorial be suportnovborial \* Heating effect depends griterellas at a electric curtisist. / sever a not head in a subsel = manon Heropa & toolfo butooff THE PERSON WAS ARRESTED FOR

Something to know B) then write true or galax Fig in the blanks! 1) An electric current con produce a heating effect but not a magnetic wer current is switched on en dectric for comput electric energy (mainly) into mechanical energy effect = False 2) The heating couls/ element of different 2) when convert is swithed on in electrical appliances are usually made from copper or aluminium or wises a noon freater it convents electric energy into that energy. - False 3) We prefer a wise of nichrome 3) when the avoient a through a you making the heating element in fue wise exceeds its specified value domestic appliances like the the five wise melts and breaks electric iron, electric heater and the electric toaster. 4) Connecting many device in a single 4) A soloty device based on the socket is not likely to cause Prepting effect of awarent is the any problem in a circuit. electoic" full - False 5) The strength of an electromagnet con 5) Electromagnet should show be increased by decreasing the no. rapid magnetism when the current of twen of its coil · is switched on = False

d. Tick ( ) the correct option 6) - A good checkengonet wanted-= act him a magnet when some a planent of electric buch, the - and current in ON! - push would not so so when the cumak is plament gives out light energy. OFF. D) Answer the following question in brief a high meeting resistivity and low melting I The bulb in the circuit shows in figure does not glow why? a redraw the circo circuit diagram by making the s) we are more likely to obscure a strong meser necessary changes in it, so magnetic effect with @ a that the bulb state glowing. = Connent Countying circulor coil of many trous would on a soft ison. of the common to household device, that uses an electromagnet in its working is-= the electric bell But of circuit & show in figure does not glow because the bosition of celly are not correct and switch & B current is switched OFF.

4) Give the meaning of the terms shout 2) Nome three production bractical devis on the heating effect of animent. circuiting and over boding in an electric ciocuits? (i) Rome Room heater (1) Esectoje ison = Short circuiting a touching of the live and neutral wire, (iii) immersion sod due to fault Insulation. 3) write two special characteristics of raise med to needed for making = overloading: the element of on electric heaten connecting of more than one device appliance to a single specet = & Nichrome naire needed for moking the element of an electric heater 5) Do you think an est electromagnet can be used for separating plastic bags from garbage heap Exploin. and their & characteristics are! 1) it has a high melting paint because plastic bag is non-metalic 2) it has a high resistivity or not magnetic or magnets any attract metallic objects

The Brightness of light emitted 6) State any three appliances a application of an electromagnet. by a Bulb, is observed to decrease when an electric heater is connected = Mome speaker, Telephone, in soully with it Suggest the streety mobile coanes likely season for this observation. E) Asuer the following question a Because to cotroes 1) The some amount of current The brightness of eight, emitted by a flow through the connecting wire but 4 observed to decrease when an and the Bulb filoment : Mouvever, electric heater is somected in series It is only the filament that within it because electrical across the Sime. Sings bulk decreases as compared to the = 1000 so because the sexistance of The metal filoment of an electric 2) Suggest on experiment set up to bulb is tungsten wise which has illustrate the action of an electric your high scors sonce Inestefore it become od hotand stat growing while = Taxe two nails and connect them in connecting wise has low resistance thus it the circuit shown in the diagram. Connect does not heated up. the trop of nail with aluminium wise and then turn on the switch. As the current storts flowing in the circuit, the aluminium wise pury quickly. This is the way an electric

allminim foil 5) Draw a lobelled diagram of an electric bell and expense its working. 4) A novoice electrician, while covering out Electromagnet (Fog) Some repairs in Sumit's house, tried to put a piece of tungs to wise in o Just-Summit father ion noticing this , stopped him from doing so like reason as = 1) when current flow through the electro to why he did it that -magnet it and acquise magnetism and aftract the aumature. = Tungsten should not be used in the e) As the ournaliste bend towards the fuse because it has very high. electromagnet, the gong is struck. But at melting point. A just should have the same time contro contest between low melting point so that it can armature and contact screw get burn up when the auvient exceed broken and the Circuit get swithed the normal limit.

3) Is the current flow Stops (due to Value based guestion the break in the circuit) the electro i) State any two of the value that the principal wiged her student to develop in themselves. -magnet (immediately) loves it magnetism. It, therefore, no to longer at attracts the armature = Coving and help fulness 4) The armoture gft fulled bulked back to its original 2) Write two few factor that can be & adjusted to increase the strength of an electromagnet. position by spring action + 14, now, again comes in contact with the contact screw; the circuit get completed again. The cycle = Two factors responsible to increase repeats itself and two going get struck again. This, in twon, the storigth of an elastromanet. again bresk the circuit. I Increasing no of coils 2) Using soft ison as base. 5) Due to the alternate, making and Breaking of the circuit/ (which tokes place very rapidly), the ee electric bell goes on singing courtinuosly as long as the switch is kept pressed pressed.

g Activity to show magnetic effect
= Take a battery, wises and a busb  and some ison fillings we create a  proper circuit wing the battery, win  and bulk them we but iron  fillings near the writer.  Observation: We notice that the  that the ison filling get  attracted to wix
batters

Circuit 12 over flow of electricity C/ASSMATC of the and 55) Characteristiq of electric fuse = 1) from it is use to bosed the Date Page By with feel form of MCB.

- ministure Circuit brooker. 10 ised occurs 65