Instruction for effective study at home

Dear students follow subject wise instructions for active and effective study at home.

Biology/Computer

- Practice of all cycles (flow sheet diagrams) of all units (1, 5, 6, and 7) on separate sheets.
- Learn long questions from text book with headings and subheading.
- Prepare notes of all long questions after learning.
- Book reading is compulsory for objective (construct 30 MSQs from each unit).
- Practice diagrams of all unit on sheets.

Chemistry

- Learn and solve all test yourself from each unit on separate sheets and prepare your notes.
- Learn and solve complete exercise of each unit on separate sheets and prepare your notes.
- Learn yellow and pink boxes in terms of objective.
- Book reading is compulsory for objective (construct 30 MSQs from each unit).
- Learn all long questions from exercise of each unit and write them of sheets in the form of notes.
- Solve numerical and examples of unit 1 and 5.

Physics

- Learn all formation boxes of including values from each unit.
- Learn Tables of units from unit 1.
- Solve mini exercise from each unit on separate sheets and prepare notes.
- Solve problems and examples from each units and practice on separate sheets.
- Practice derivation of equations of linear motions from unit 2.
- Learn topic wise long questions. From unit 3 and 4.

Mathematics

- Practice all questions from each exercise.
- Learn all definitions from each unit and write them on sheets.
- Practice all theorems of unit 12 on sheets.
- Prepare unit 10 and 11 for definition.

Urdu/English

- Watch linked videos and write all letters, applications, stories and dialogues of urdu and English.
- Read daily one unit of urdu and English and solve their exercise.

Pak study/ Islamic study.

- Learn all long questions from exercises of unit 1& 2 Pak study with heading and sub heading.
- Read complete unit 1 & 2 and write all dates with events on separate sheets.
- Prepare your 40 MCQs from each unit of Pak study.
- Learning words meaning from exercise of all **RUKOO. Of SURAH's**.
- Learn Translations SURAH'S
- Learn and write AHADEET

BEST OF LUCK

THE PUNJAB SCHOOL

DEFECNCE ROAD CAMPUS (DRC)

JUBBLI TOWN CAMPUS (JTC)

STAY HOME STAY SAFE

باب مبر بنيادى مقائد 9m انسانی زندگی پر عقید ۲۵ توحیر ک انژات کا جانبزه کیس ۲ توحیر کا مقبوع : ______ ۱۰۷ میروم : نوحید کا شمار ہوتا ہے ۔ توحید کے لیوی معنی المعربين الم 100g ليت شر ند 1 sande Lour * مقتده توحيد انساني زندهي بريشمار ان من سرچند مندرجه دنل س-2

انجرب واتحاد: بعقيمه تومد الحوت و اتحاد كا درس اسلام س قبل سادی دنیا ختلف طبقات س - ve لنكن فقتده فوجلا في اس منتشر انساست لسف فاتم يرجح كرديا_ لوآر ارساد موار الموتوب افوه . محر شبك سيمان طابق عالى عن وق خراس مرردی: مقتد محلوق خراس ر شفقت سرچیس آنے کی تعلیم دیتا سے عقب ۲۵ ب کی تربیت کرتا ہے کہ وہ ایک دوسرے تے کیونلہ ادائی کے نبدوں سے محبت خات کا دردیو لوحيد السار. 1 1 1 5 يركس زكراخوب كما ير بیانی تم ایل زمیس پیر بیانی تم ایل توش پیرٹ پر م بالى يو كا مرت بال مر 6 2 h

one us al & Musica pi وقيرو توحيد كاما شروالا. مالوس اور تا اس بوتا وه بروقت الله ی رجب بر اس لگائے رکھتا ہے۔ انسان جس قدر دل کو اللہ کی طرف متوجہ کرتا ہے ، اس کے دل کو اسی قدر المینان ملتا ہے۔ ارشار حواء الأبذكر الله تطمين الفلوب ط (13 28 25) <u>ور مشک دلوں کا المینان الگر</u> بر بر بر می استان می میں بر بر م میل میں میں اس کی قصر کر بر موسی کا امان کے المار اسلی تمام علم اور بوشیدہ بالوں کو جانتا ہے۔ حب النتان ساری دُنا سے تھپ کر کوئی بناہ سر اخام دنیا سے ، سخی چوری ، دُاکہ، قتل فغیرہ آنو اللہ بھالی فرماتا ع ····· ا مابن آدم مح ساری دنیامیں میں سی اتنا حقر کاکہ تو ترب سے جب کرکناہ ر من يحر ليس ند كيا بس ايت ميدا پر ده⁻ نه كيا <u>»</u>

وَسَوَيْ لَكُمْ مَمَّا فِي السَّمْوُتِ وَمَافِي و المورة جاشيساني) ن مُنعًا مَرْ4 • اور آسما اور زمیں میں تو تھ ير اس نظار له به امان لائے سے استقامت اور سادری وی ہے۔ موس جانتا ہے کہ ہر چر، ادلیہ کی خلوق اور مقتدے کے ذریعے مؤمن استقامت قبادری وربن جاتا بد_ اسی لئے مسلمانوں کو قرآن 2 5 Blotin رُعاً وَثَيْتُ أَقْدَامَنَ وَالْفُرْرَا عَلَى الْقُومِ الكُورِين - (البقرة: 250 ي)

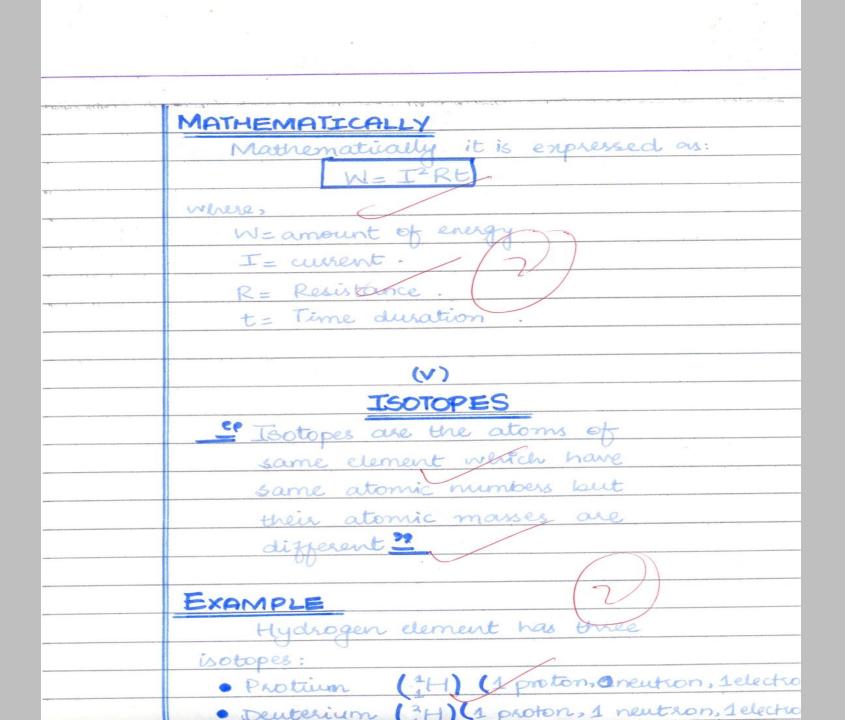
م يدا موتا مع الو ومكرت برمزكاري كاحذبه per. shist كرت ير ارستا رهوا: سے نیک آ لوشر 15 يتني دري بحدث المتع * _ شب الله يرمز اروں كو • ي اتھا ر حبتالي نے سر مومن 121 مستور) کو تقلاک j, j 09 بِتْبِه (تودهاري) اور امان والرس سررا ده اللم سے محبت کرتے ہے۔ وكل: سے یعی اللہ پر مودسہ ایسا جذبہ یو جو مسلمان کو دُسًا آفرت میں کامیا بی دلوا تانے اور عقیدہ لا توحید توکل نرخے میں ایم تردار ادا کرتا ہے۔ اور

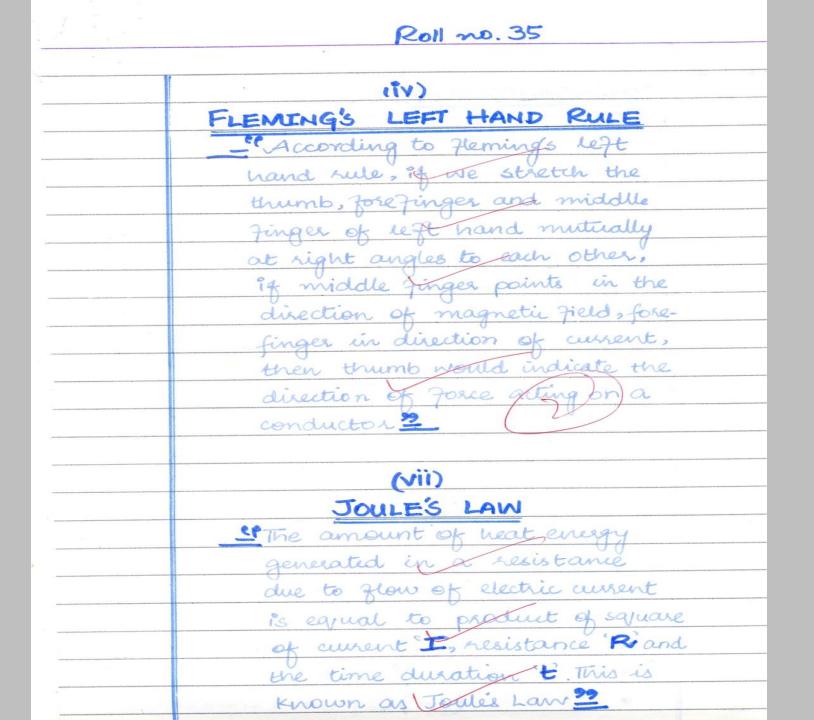
دِناني: - قَ تَوَكَّلُ عَلَى اللَّمِ دِن ز مع وسر ھك كەمانكو تومۇتى ملس توجو كرتا صراب دە شنت 210 B 22 1 CON R.C.

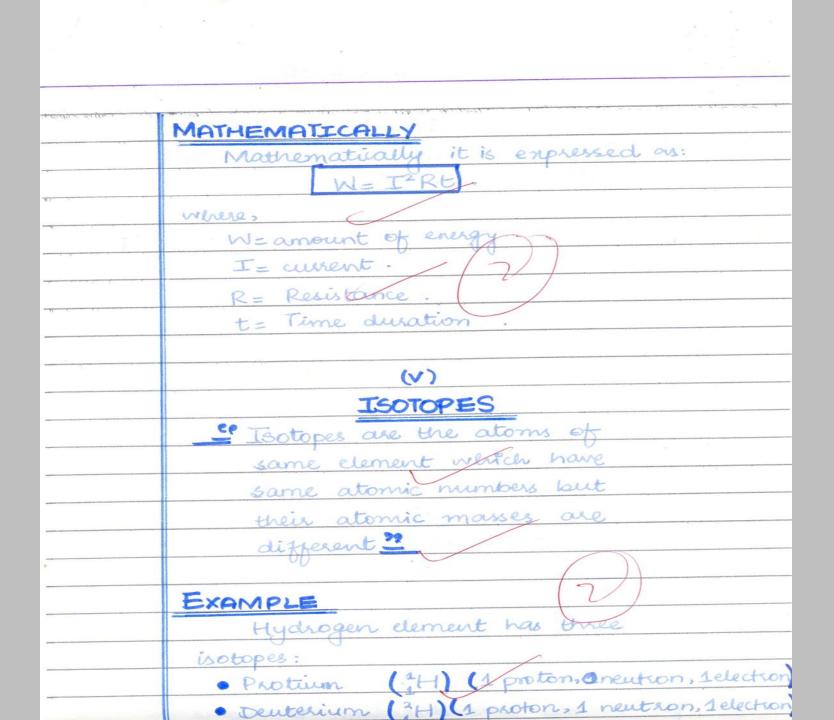
(ix) DIFFERENCE BETWEEN MUSIC NOISE "Such sounds which - Such sounds, have jouring effects which have pleasant effects on our ear, are called noise on our carts are called music ____ Their grequency & · Their Frequency amplitude do not & amplitude change in kequar / change in regular manner. manner. EXAMPLES EXAMPLES · Sound of · Sound of heavy sitar or traffic. piano or · sound of hammering in tragfic flute. and industries. (WAVE FORM) (WAVE FORM) manning

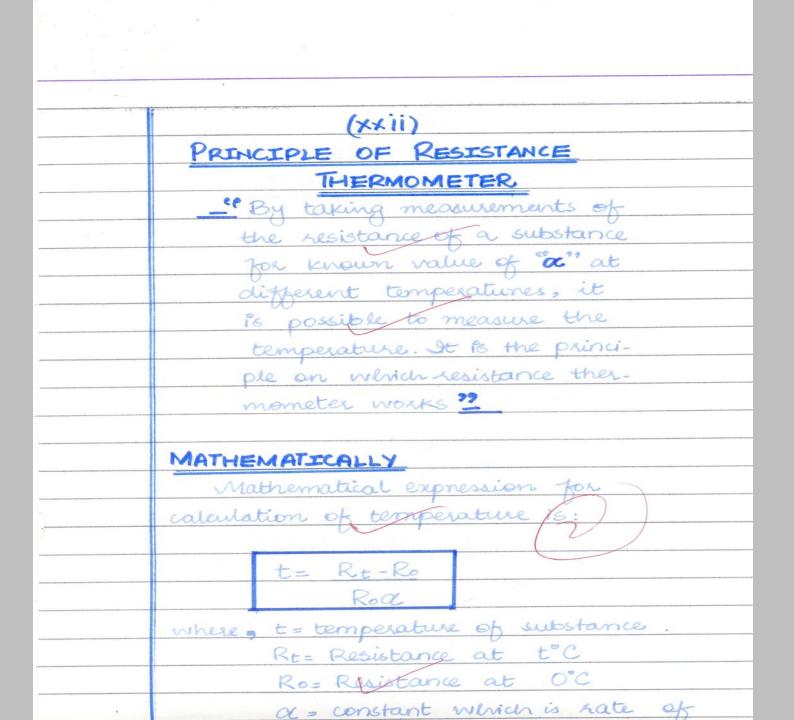
(ii)UNIT OF RESISTANCE Unit of resistance is ohm which is represented by greek letter. (2) omega. OHM el A conductor would have a resistance of one ohm, if one ampere current passes through it when potential différence of one volt is applied across its ends OTHER UNITS Other units are. 1M52 = 1 Mega Ohm = 106 2 $1KS2 = 1 kilocohm = 10^3 S2$ 1m2 = 1 milliohm = 10-3 r 1 use = 1 micedohm = 10-652

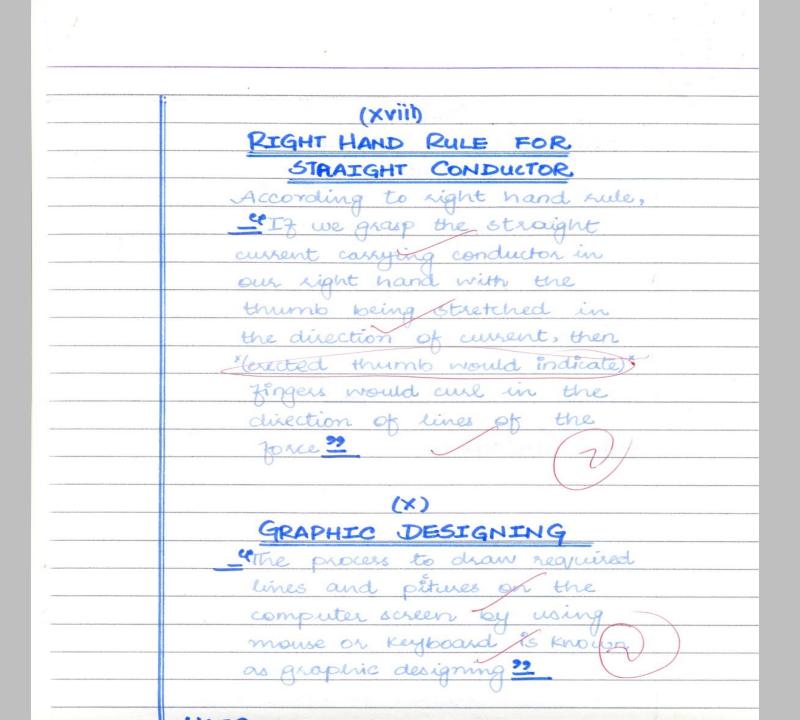
(iii) MUTUAL INDUCTION - If a current is induced in a circuit due to the change of current in another cricuit, then this phenomena is known as mutual induction? COILS Two coils are usually used in mutual induction. The coil in which change in current induces current in another coil, is called " primary coil " merile the coil in which current is induced is called "secondary coil" APPLICATION Transformer works on the principle of instrual induction





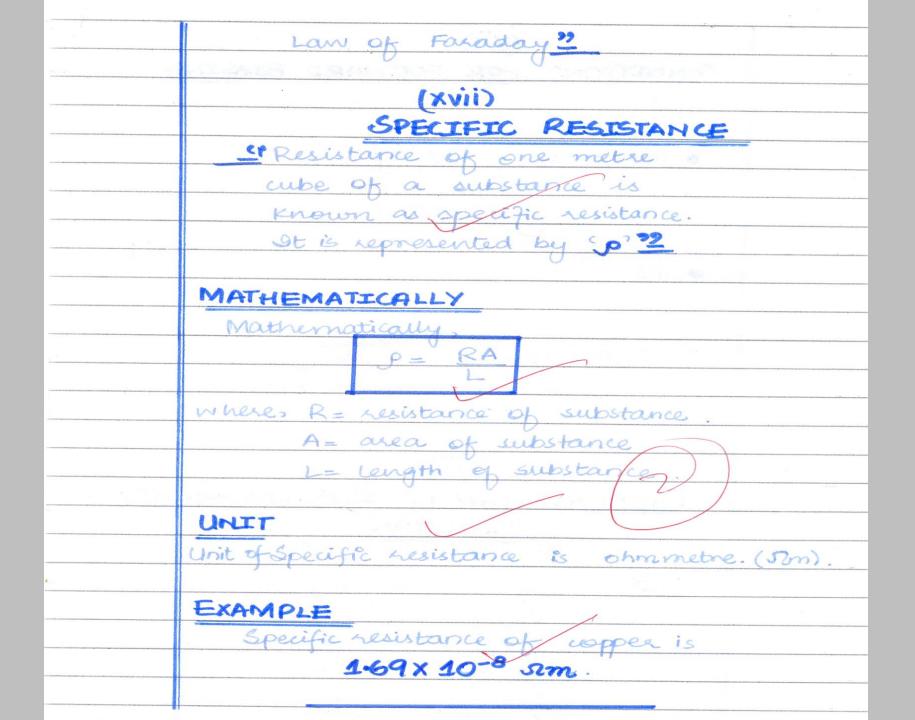


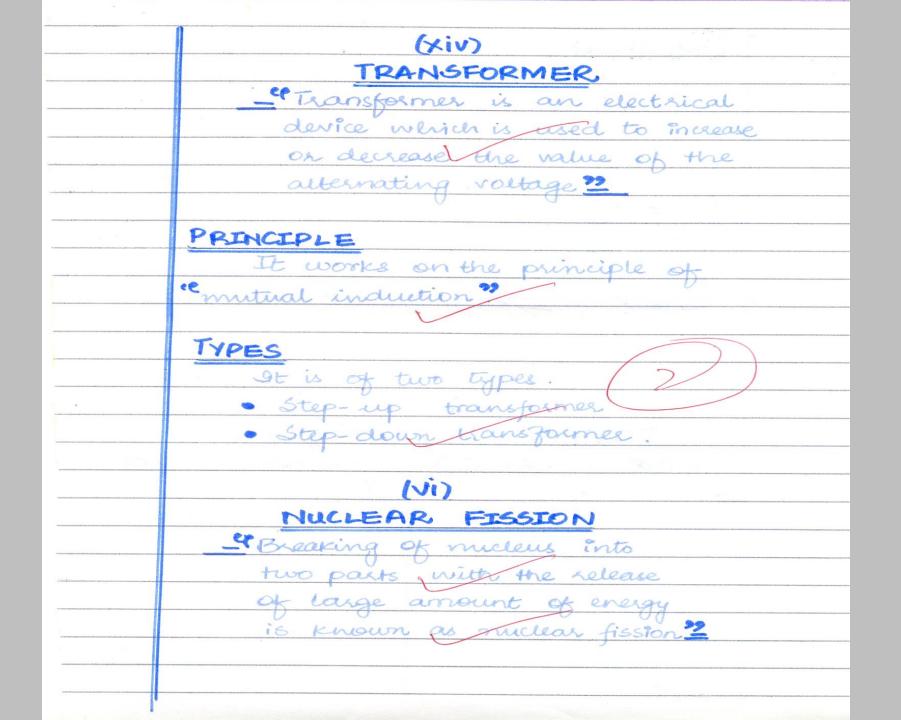




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~	DIFFERENCE BETWEEN		
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	carbon is 1 and 6	control is 1 and	
4	respectively.	12 respectively.	

(XII) CONDITIONS FOR FORWARD BIASING Two conditions are necessary Jor Jorward biasing. · The anode 'p-part' of conductor should be connect with the terminal of battery and cathode with -ve terminal. · The voltage of battery should be greater than internal potential barrier so that it may provide a requisite amount of givergy to charge carriers to overcome potential Barrier (XIII) FARADAYS LAW OF ELECTROMAGNETIC INDUCTION Foraday discovered it in 1831. _ The value of induced emf is directly proportional to the rate of change of the magnetic geux. This is knows as electromagnetic induction





EXAMPLE Ig slow neutron is bombarded with Uranium, it breaks into two parts with 3 neutrons and energy. E Ba 2-> 3 Our. >= Ba+3 Kr+3 m+ Energy azut in Fission reaction can be controlled (XVI) DIFFERENCE BETWEEN UNSTABLE NUCLEDE STABLE NUCLEDES Muclei which INuclei which do not emit radiations naturaemit radiations naturally and My are known dis stable nuclidez hence are converted into another element, are known as unstable miclide

REQUIRED DATA Power consumed by electric bulb = P = ?. SOLUTION We know that, According to ohm's harr, VIIR JI = V R By putting values, we get I= 250 500 -I= 0.5A . Now, P=VI By putting values, we get, $P_{=}(250)(0.5)$ P= 125 watt P= 125 W

RESULT Power consumed by electric bulb is 125W. (a) PROPERTIES OF B-RAYS B-rays are the particles which are emitted by nucleus of radioactive elements. It shows the following properties: (1) SPEED B-rays are writted by radioactive elements which move with gried speed. Their speed, ranges about 98%. to that of speed of light. The speed of B-rays emitted from different elements is different The speed of Brays emitted for same element is also not some.

(b) Half life of ____ years? GIVEN DATA Half life of radium = T=1600 years. Total quantity of radium = 1209. REQUIRED DATA Quantity of radium left after 4800 years= 7 SOLUTION Half life of radium is 1600 years. Now, we have to find number of half life after 4800 years. No. of half life = 4800 = 3traif lifes (4 1600 Nows Quantity of radium left after just half lefe= 120 = 60g.

Quantity of radium left after second harf eige 2T = 60 = 30g Quantity of radium left after third half life 3T (4600 years) = 30 = 159 RESULT Quantity of radium left after 4800 years = 15g.

(a) TRANSFORMER "Transformer is an electric device which is used to increase or decrease the value of alternating voltage? PRINCIPLE Transformer works on the prénciple of "emitual induction". CONSTRUCTION Transformer consists of two coils which are wound on the two sides of a retangular iron core coils are of two types: · Primary coil. · Secondary coil. PRIMARY COIL The coil is which alterstating voltage is supplied whose value is to be altered is called as

primary coil 2 SECONDARY COIL The coil at which altered required voltage is obtained is known as secondary coil ? primary -SES. EP -secondary coil . NP LIZON cose . Transformer. WORKING The alternating voltage whose value is to be altered is supplied to primary coil . This coil voltage is supplied which causes the mognetic field to build up and magnetic flux to change. This change in the magnetic flux increases and iron core entrances this change in number

of lines of zorce passing through primary coil and also concentrates it that the whole magnetic flux is also linked up with the secondary coil Due to phenomena of mutual induction, voltage is also induced in secondary coil. Usually, the following relation is obtained. Es = Ns EP NP where Es = voltage at secondary coil. Ep= voltage applied at primary Non No. of turns of coil in secondary. Np=No. of tuens of coil in primary. TYPES There are two types of transformer.

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isstep-up transformer. (i) Step-down transformer. (I) STEP UP TRANSFORMER - In step-up transformer, the no. of turns in secondary coil is larger than that of primary coil. It is used to increase the value of alternating voltage ?? In this, NS>Np as we have to obtain, Es>ER (NS>NP) Eps SES NK NP step. up. transformer. Tis STEP-DOWN TRANSFORMER Con step-down transformer the no. of turns in secondary coil is less than that of

of primary coil. It is used to décrease the value of alternating voltage ?? In this type, No should be less than NP NSCNP in order to get ES LEP. These are the two types of transformer. (NSKNP) P S 5 6 EPS VP . Step. douan transformer.