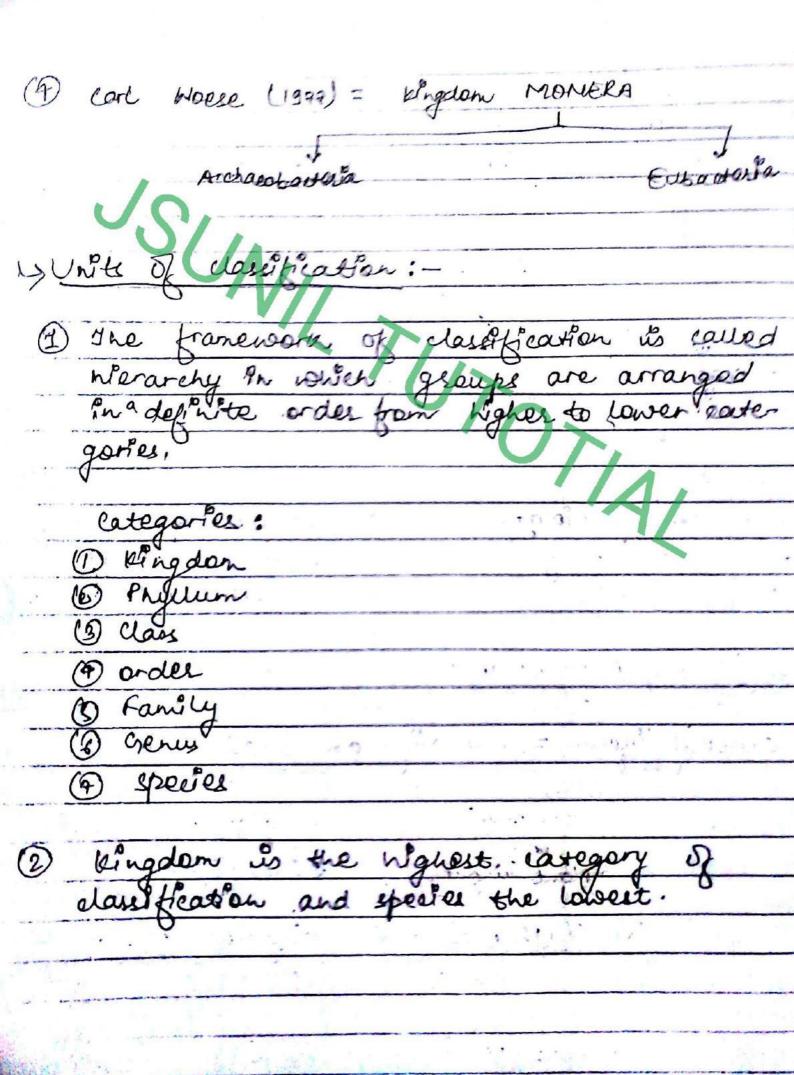
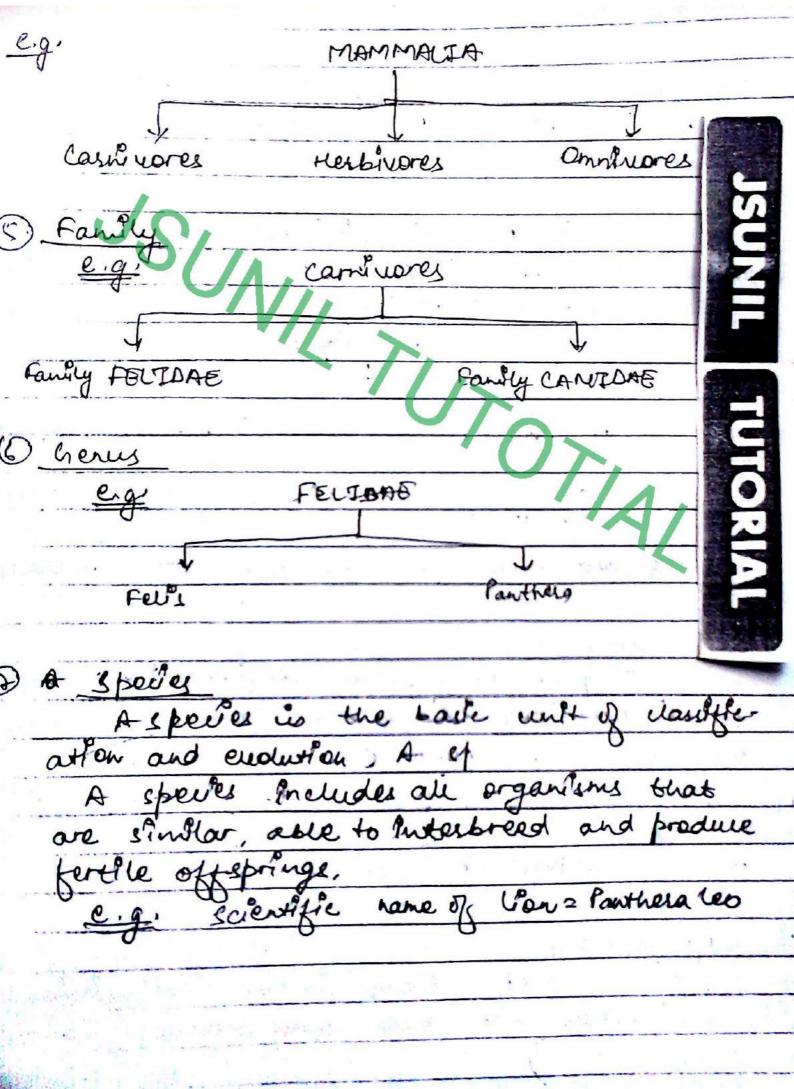
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| ( Classification     | - I Nomenclat  | ures-          |                  | •         |
| O familiar           | 18. 0.11 - 4.0 | o to ada       | 12.010.00        | •         |
| Curocola             | 158)           | io Engain      | classification   | •         |
| -                    |                |                | TMALIA           |           |
| 1                    | PLANTAG        |                |                  |           |
| · with               | - Plant Wing   | gdon Ani       | mel kingdom      |           |
| 16) Gamet            | Hackel (1894)  | = MWrd Ki      | ng den claseit   | ication   |
| (2) Earnet           | Add            | ded third bing | dom PROTIS       | TA.       |
|                      |                |                |                  |           |
| (3) Robert K         | Wtakker (19    | 69) = Five ti  | gdom classified  | Her       |
|                      | , added k      | ourth Engdom   | MONERA           |           |
| (3) Robert K         | and 8          | the eligibora  | FUNGI            |           |
|                      |                | 0              |                  |           |



st includes all organisms that share a cet of distinguished common characters.
e.g. Protista, monera, fungi, Plantae and animalla. 23 Phyllum Each kingdom is direided Into phyllum. Each me has organisms related to each other by common characters. . Animal kingdom PMY. CHORDATA Notochard present \* Notochard a rad like supporting structure. Each phyllum further d'vided into classes which are related by some common features e.g. choresta. amphibla Reptilia Auls Each class is further d'ideal Pinto orders that have some common characters,



> Kingdom Animalia:--> enkargotte - heterotrophie eeu wall. -> cells without chlorophyll and organismy Pasokaryotes 1. Lingdon MONERA Muticollism Unrellular 2. Elizadoro PROTISTA with cell wall without cell wall S. Kingdom ACVI MAUA noith chlorophyll. no chlorophyll don't perform photograthers's 3. Kingdon FUNGT Able to bestern protosy 4. Hingdom PLANTAG TUTORIAL

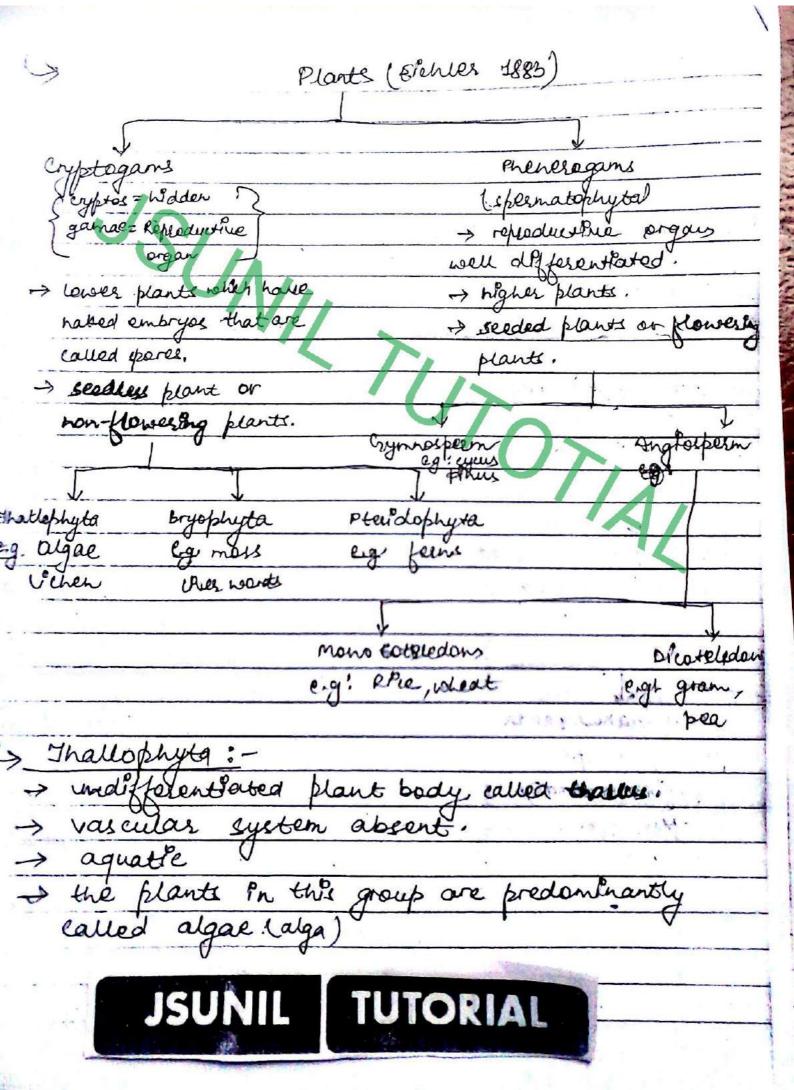
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Classification of PLANTS:-Plants the have differentiated have differential plant bedy 1. THALOPHYTA strent specialised with vallular rasculas obssul. 4 Pesus 2. JBRYD PHYTA SUNI dent produce seeds producte celds 16 (Phenerogans 2. Pherldophy +a bear naked seeds bear closed seeds 4. Crymnosperms.

Shymies = nated?

Sperm = seeds? 5. Angiospeum Sicots. Monocots (single congledon)

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#### JSUNIL TUTORIAL Hlgac:--> green thallophyta. -> contains chlorophyll -> autotropive other proment. Thus, there may be blue-green, brown, red or purple algae. -> uricellulas or multicellulas. -> cell walls are made up of cellulose e.g: chlamydomonas (unicellular spiglogyra (muticellular) vlothrix (muticellular) (> Bryophyta:--> amphiblan of the plant tringdom -> do not have true leaved and repts. -> thin, branched root like structures like this which anchor then. -> no specialised voicular ticener phywnesia (moss), riccia (vues wors), marchantia > Pteridophyta: --> body differentiated into roots Herns and leaves Rg: Bryobters, marsilea

#### > Cynnospelms wintine seed bearing plants. flowering plants. are not enclosed hence they also earled naked seeded plants. unserval. and not bear (> angiosperny) advanced seed bearing - Wigher flowering plant. recited blants two Dreat Monocot (1) \$100 coteledone (1) one coteledan My Tap root. (11) Abrow root leaves should (W) elongated leaves parallel venation

(v) flowers usually trimesous. (three perals of mutiples of three).

Symmetrical animals: -A wimale having their parts arranged in such a manner that it is possible to cit the body Puto two similar halves by one or planes are called symmetrical arimals. one plane of cymentry. cymmetrical Symmetry Radial spherical Bflaveral Symmetry symmetry. > Radral symmetry: when any plane passing though the contral and if a body divides Porto two habites that is these are approximately mirror images, it is called radial symmetry and the arimals called radiata. P.g: Narfish, Chideria, Pterophora etc.

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Bélateral symmetry:
The body can be divided Pato two
Polentieal left and right halves in only one
plane is called bilateral symmetry and the
arinals called bilateria.

e.g. roundworm, mollusca and all verteb rates,

> Diploblastie:

the animals whose cells are arranged in two fundamental leyers (enternal extedeen and internal endalern) are salled diplomblastic.

e.g: all radiata

by Triploblastic: -

three purchargented layers (external extendern,
Purernal endodern and middle mesodeern) are called
by Hiploblastic.

eig! all Blateria.

y welone: -

all mentary cared lined by mesodern is called college.

Motocood hard :

Rod Vive supporting etructure formed during embryonse development of an arinal is called notoction

Protostomia:

Mouth assing from or near the blastopore of gastrila is called pro
tostomia

Sastrila

Stage

Deuterostomie:-

Mouth asking interiorly at come distance from blastopere is called deuteristenia.

some asling from blastopare is called denterostante

> Meternarphosis:-

through a pupal stage and then comes the adult. The process is called motoamorphosis.

2.9.: mosqu'to, fly etc.

Cold - blooded (Point therms):-

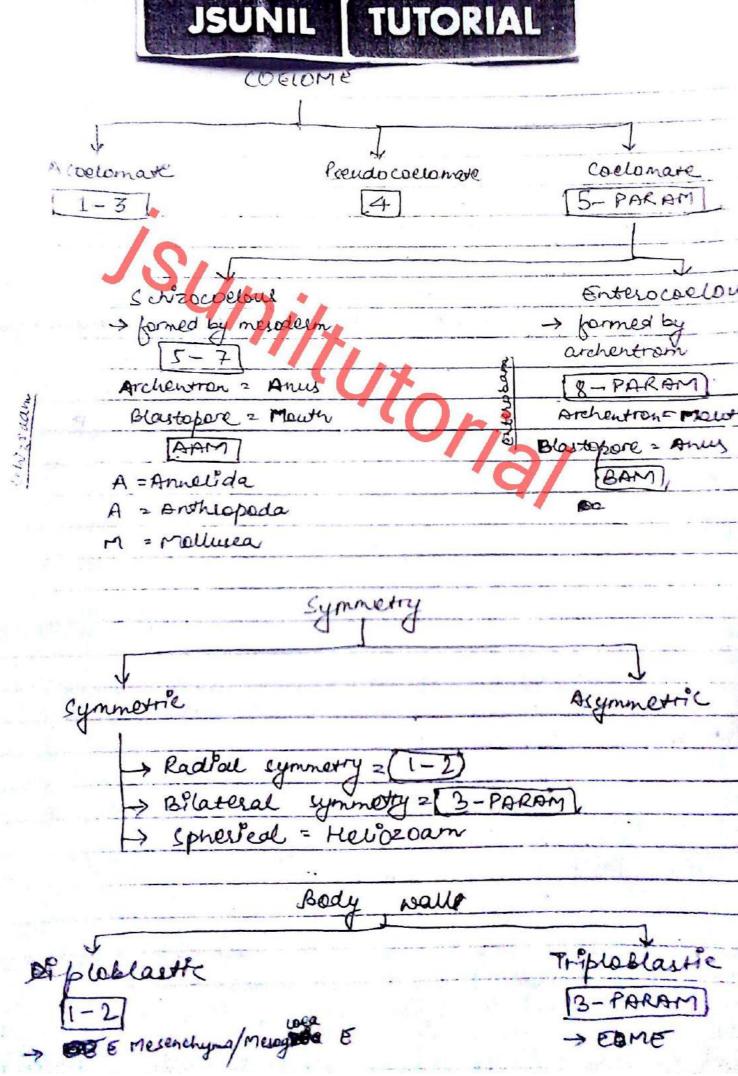
the arimale whose body temperature original occording to that of surroundings are called used-biooded arimals.

e.g.: fich, amphibia, reptilia.

Wasin - blooded ( Homoeotheems):-The animale whose body temperature to not very according to that of surrounds sig! birds animals. To remember: -Rom Porifera Coelentrate . Platy to brinther . Aschelminthle or Nemated . Annelloda , Arthropoda . Molluca · tchinadesmata , Hemi-charder o. Chordata.

ANIMALIA itulas level Tiesue level . PORTFERA Pceudococlamate Acollonate Coesamate 4. Aschelminthes 2. collentrate 3. Platyhelmentie Nematoda 7. Mollusca 8. Echinodermata 9, Henri 6, Arthopoda nevida chardata 7/1/2/1/01 to, Chordata Animalia 10hr chardata or Chordata on Invertebrata vestebrata - notoshard bresent notochord absent shary ngeal gill. pharyagood gely set ato present lit absent dorsal tubular ventral solid (rough) nerve cord nertle cord

JSUNIL TUTORIAL Animalia blon-chardata Chardata (on the bask of howing crantum (speck) ? Protochordata (Arranata) Vertebrater Crawata) - notochard perset - crawium persent notochard medified he Methobral column. #Uso chordata Leplatochordata (Tunicate) - noto chard exception notochard persont in trestersor tell region e.g. amphioxus e.g: Balaroglosus on the barre of jaw on the bash of blood AMTIMA GNATHALTOMIA MONATHA . . ENATHIA ( with jour ) jan wood) + Recobsent Por present e.g. ofetronipon e.g. mosaul, make and them, bide, - On paroly 1 Campray pares - Vaisparsey 1 myxine Pisces ( Hagfield) Ourreparous Amphibian Reptiles Aves Mannay PARAN



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