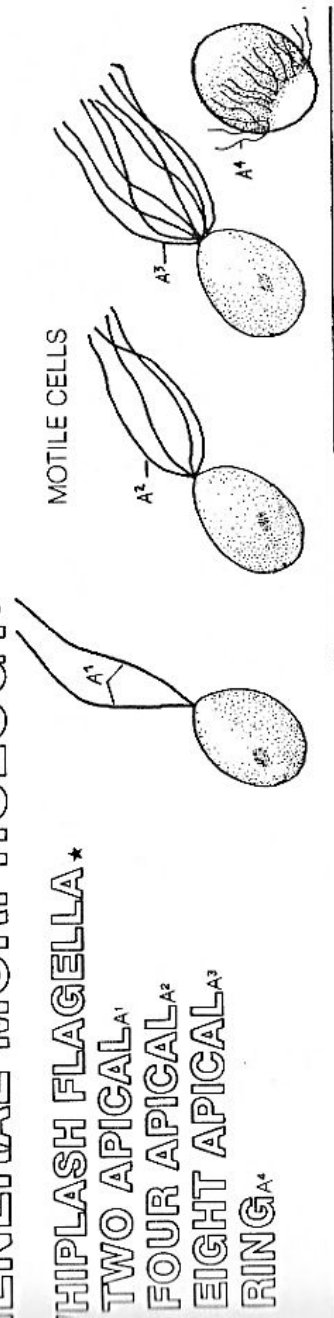
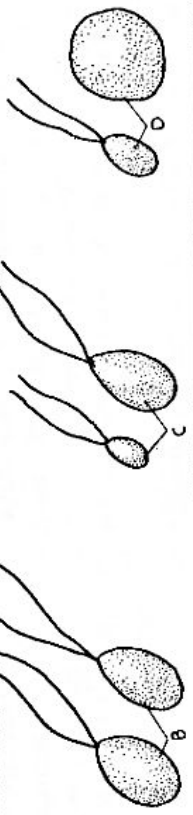


GENERAL MORPHOLOGY.



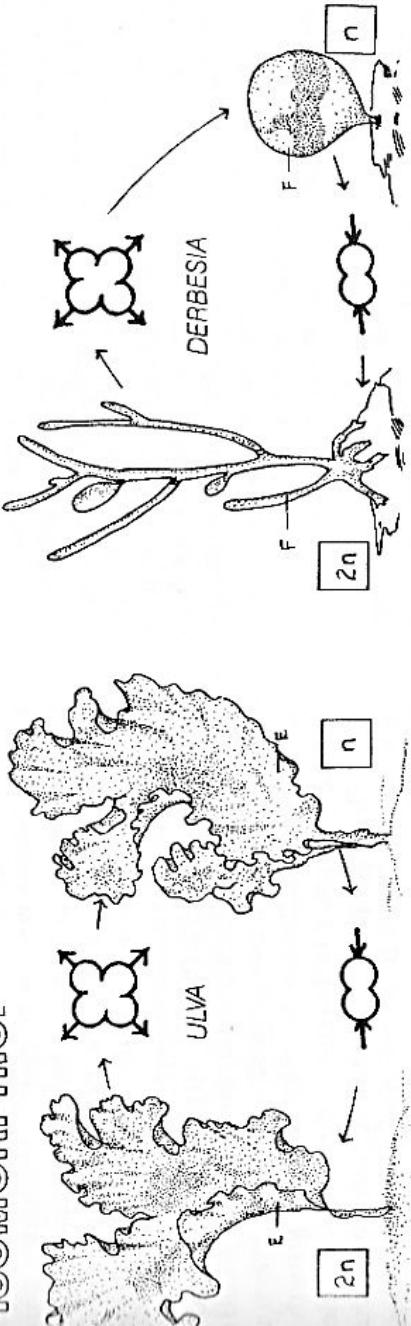
SEXUAL REPRODUCTION*



ISOGAMY;
ANISOGAMY;
OOGAMY.

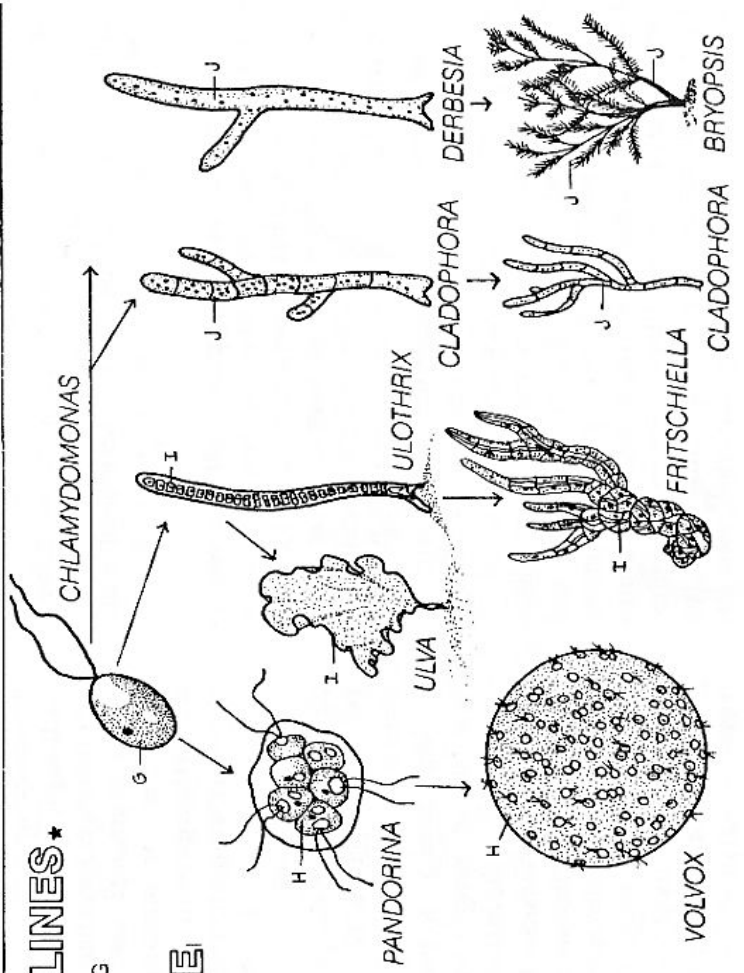
GENERATIONS*

HETEROMORPHIC:



VOLUNTARY LINES*

UNICELLULAR;
VOLVOGINE;
TETRASPORINE;
SIPHONOUS.



CHLAMYDOMONAS LIFE HISTORY.

CHLAMYDOMONAS CELL*

CELL WALL^A

PROTOPLAST*

CYTOPLASM^B

CHLOROPLAST^C

PYRENOID^D

STARCH GRAIN^E

EYE SPOT^F

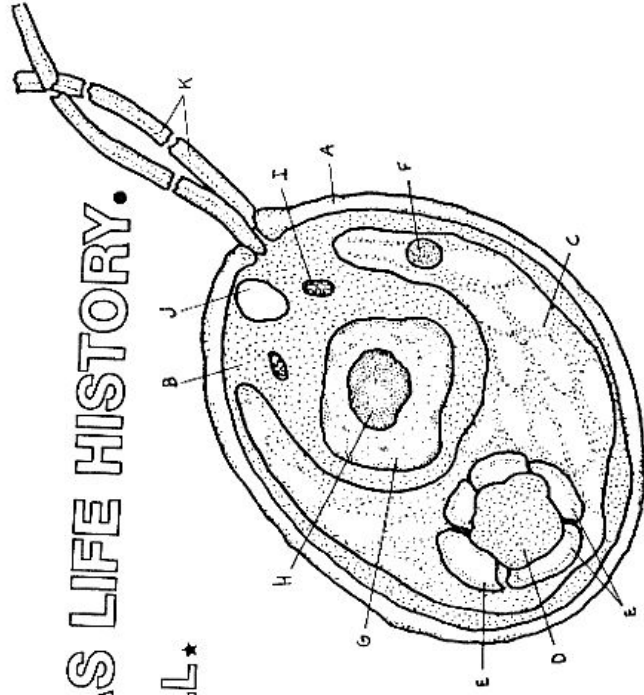
NUCLEUS^G

NUCLEOLUS^H

MITOCHONDRION^I

CONTRACTILE VACUOLE^J

FLAGELLUM^K

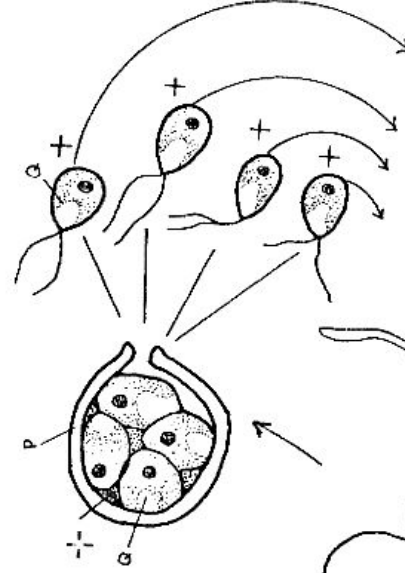


ASEXUAL

REPRODUCTION*

MITOSPORANGIUM^P

ASEXUAL ZOOSPORE⁺



SEXUAL

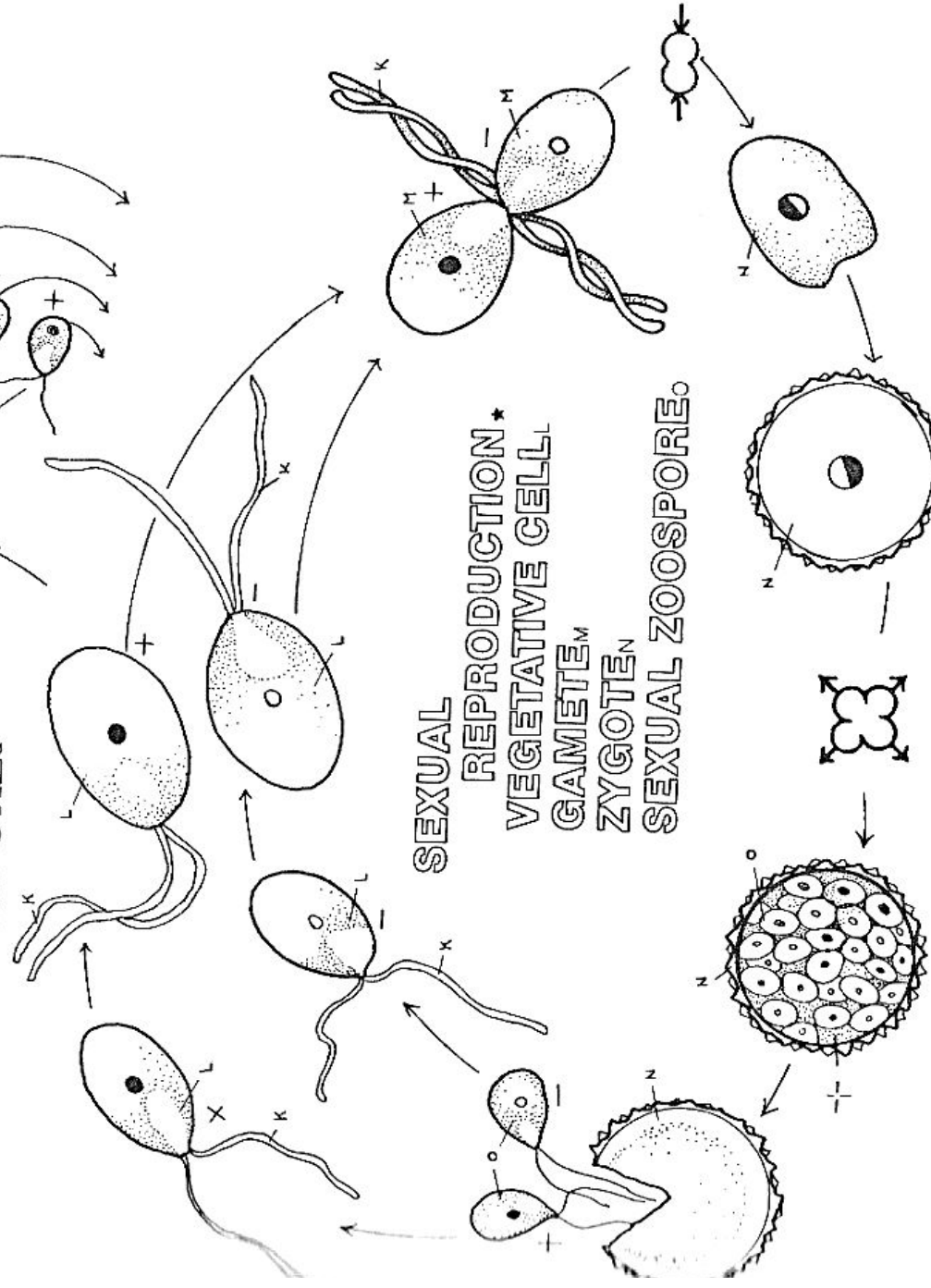
REPRODUCTION*

VEGETATIVE CELL^L

GAMETE^M

ZYGOTE^N

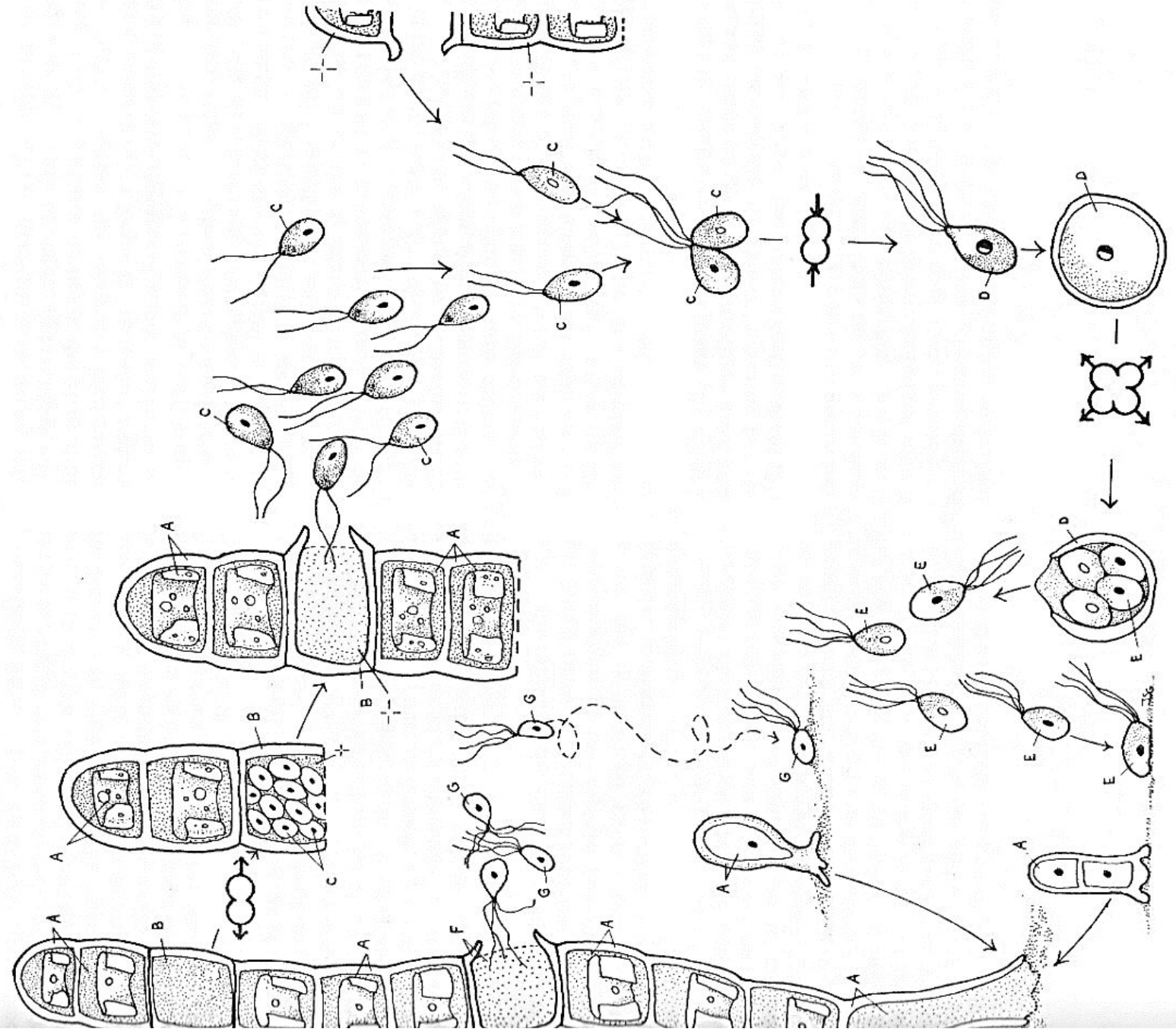
SEXUAL ZOOSPORE⁺



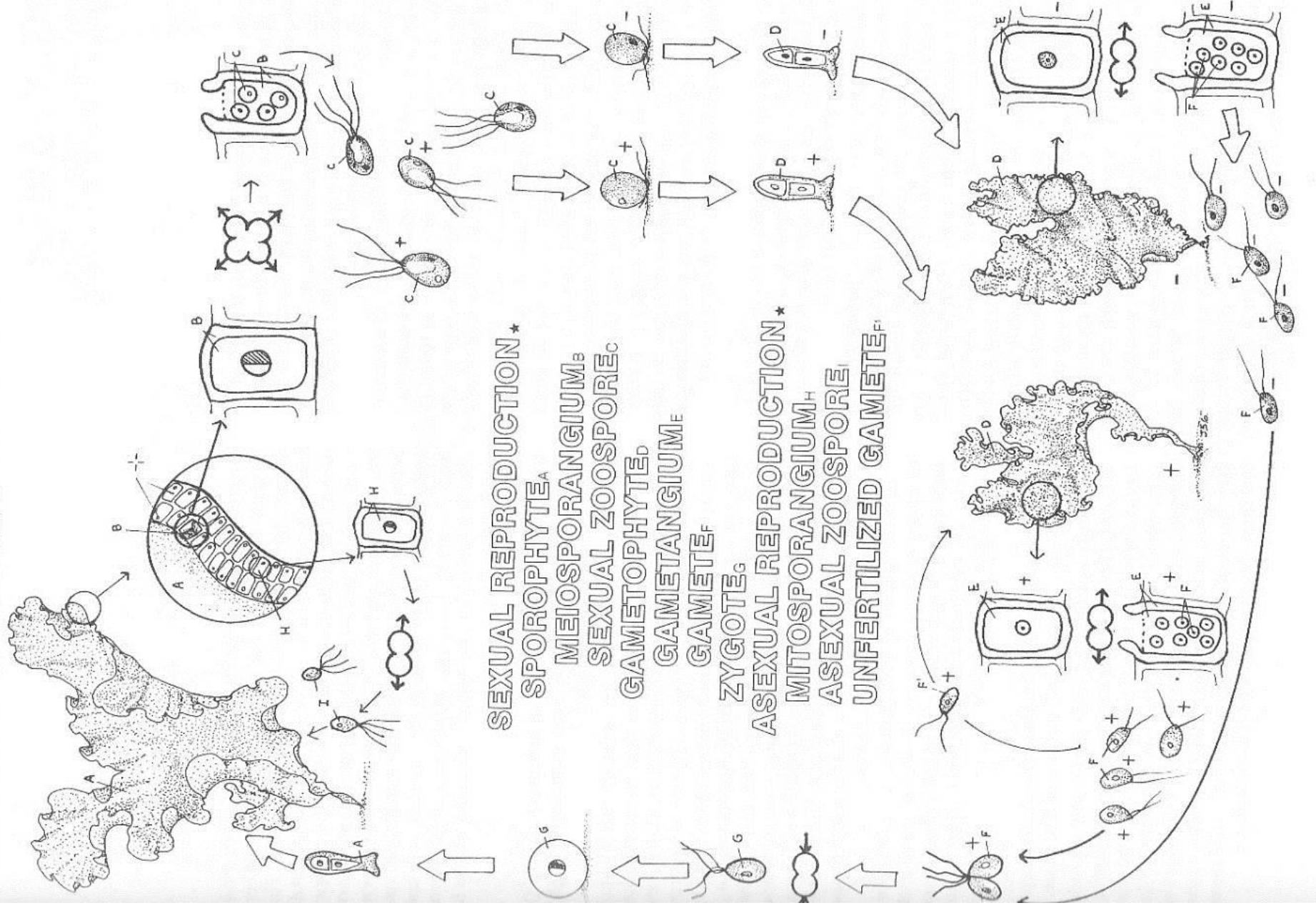
ULOTHRIX LIFE HISTORY.

SEXUAL REPRODUCTION*
 GAMETOPHYTE^A
 GAMETANGIUM^B
 GAMETE^C
 ZYGOTE/ZYGOSPORE^D
 SEXUAL ZOOSPORE^E

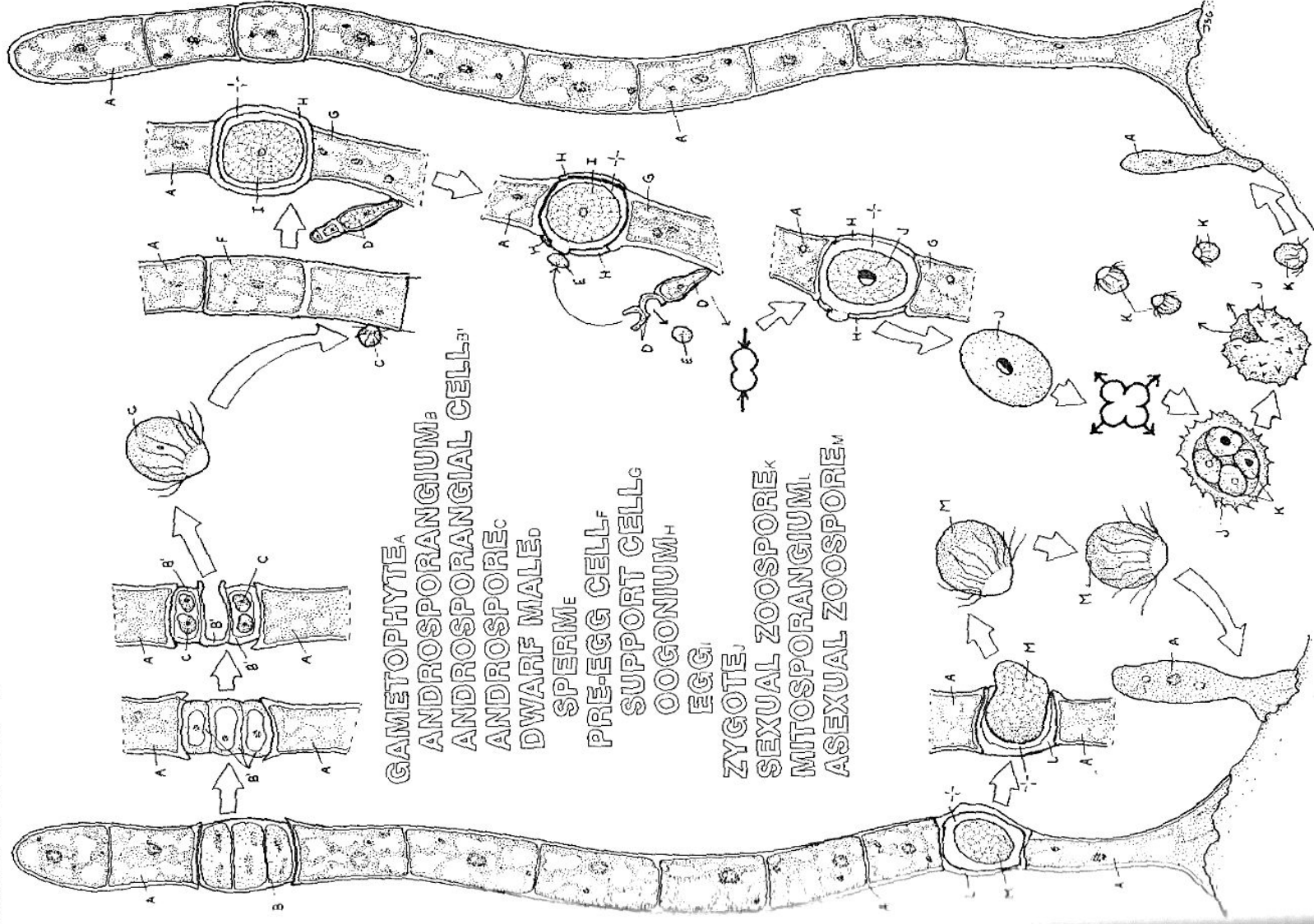
ASEXUAL REPRODUCTION*
 MITOSPORANGIUM^F
 ASEXUAL ZOOSPORE^G



ULVA LIFE HISTORY.



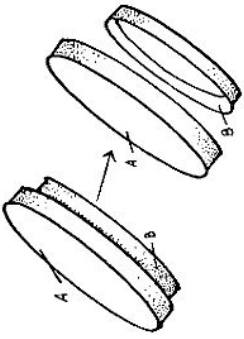
OEDOGONIUM LIFE HISTORY.



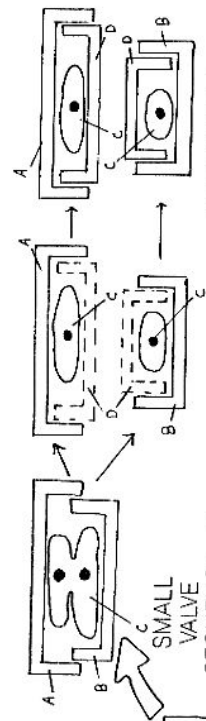
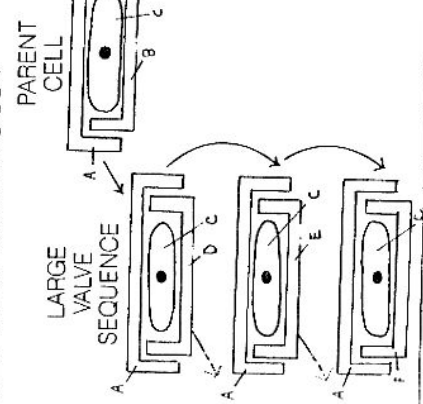
GOLDEN-BROWN ALGAE INTRODUCTION.

DIATOMS*
PARENT VALVES*
 LARGE^A
 NEW^{A'}
 SMALL^B
 NEW^{B'}
 PROTOPLAST^C

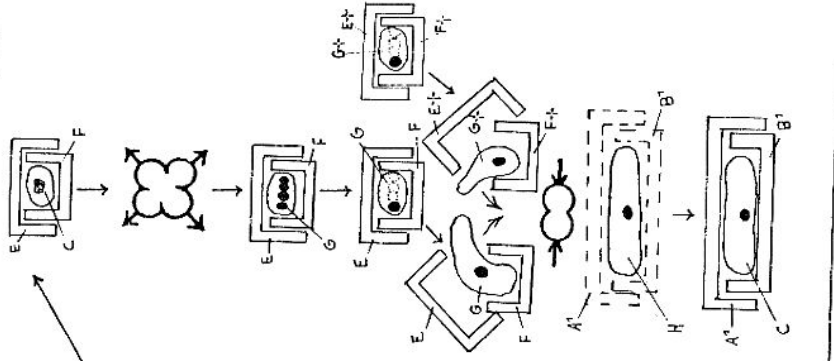
PROGENY VALVES*
 1st GENERATION^D
 2nd GENERATION^E
 3rd GENERATION^F
 GAMETE^G
 ZYGOTE^H



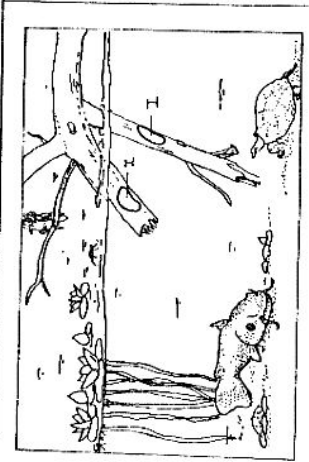
ASEXUAL REPRODUCTION*



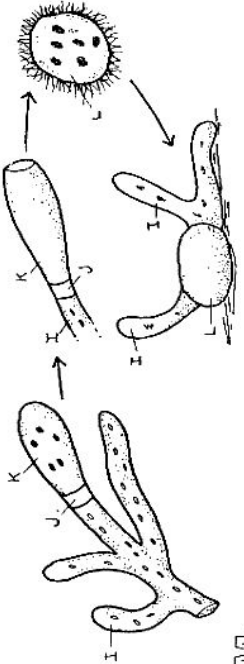
SEXUAL REPRODUCTION*



YELLOW-GREEN ALGAE*
 FLAMENT,
 SEPTUM,
 SPORANGIUM^K
 ZOOSPORE^L

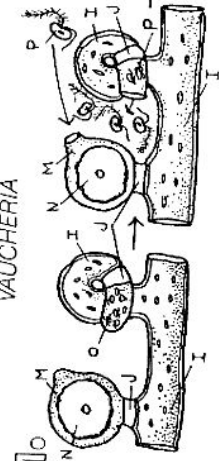


ASEXUAL REPRODUCTION

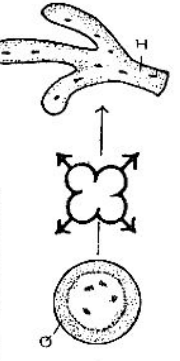


COGONIDIUM^M
EGG^N

VAUCHERIA



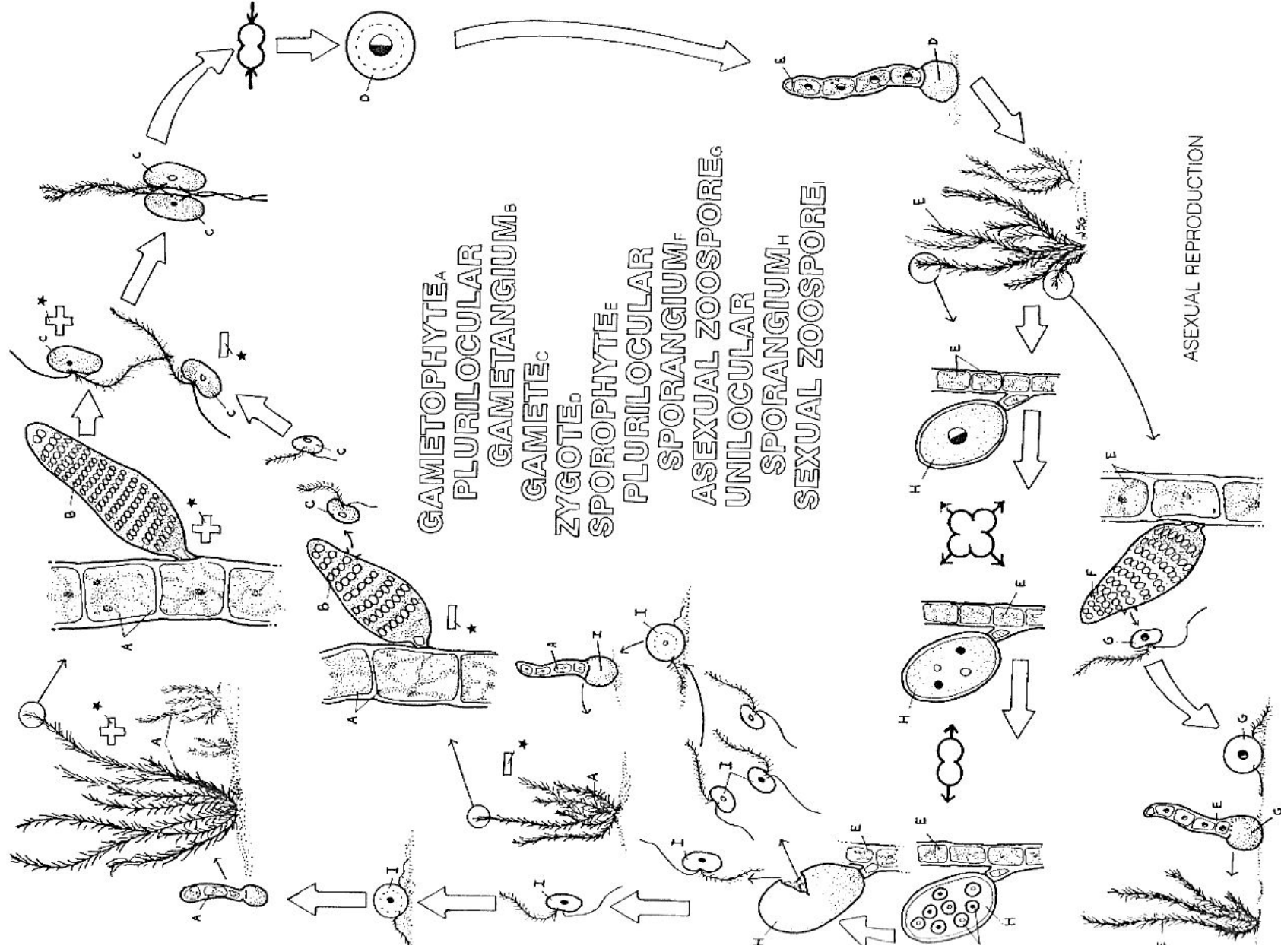
SEXUAL REPRODUCTION



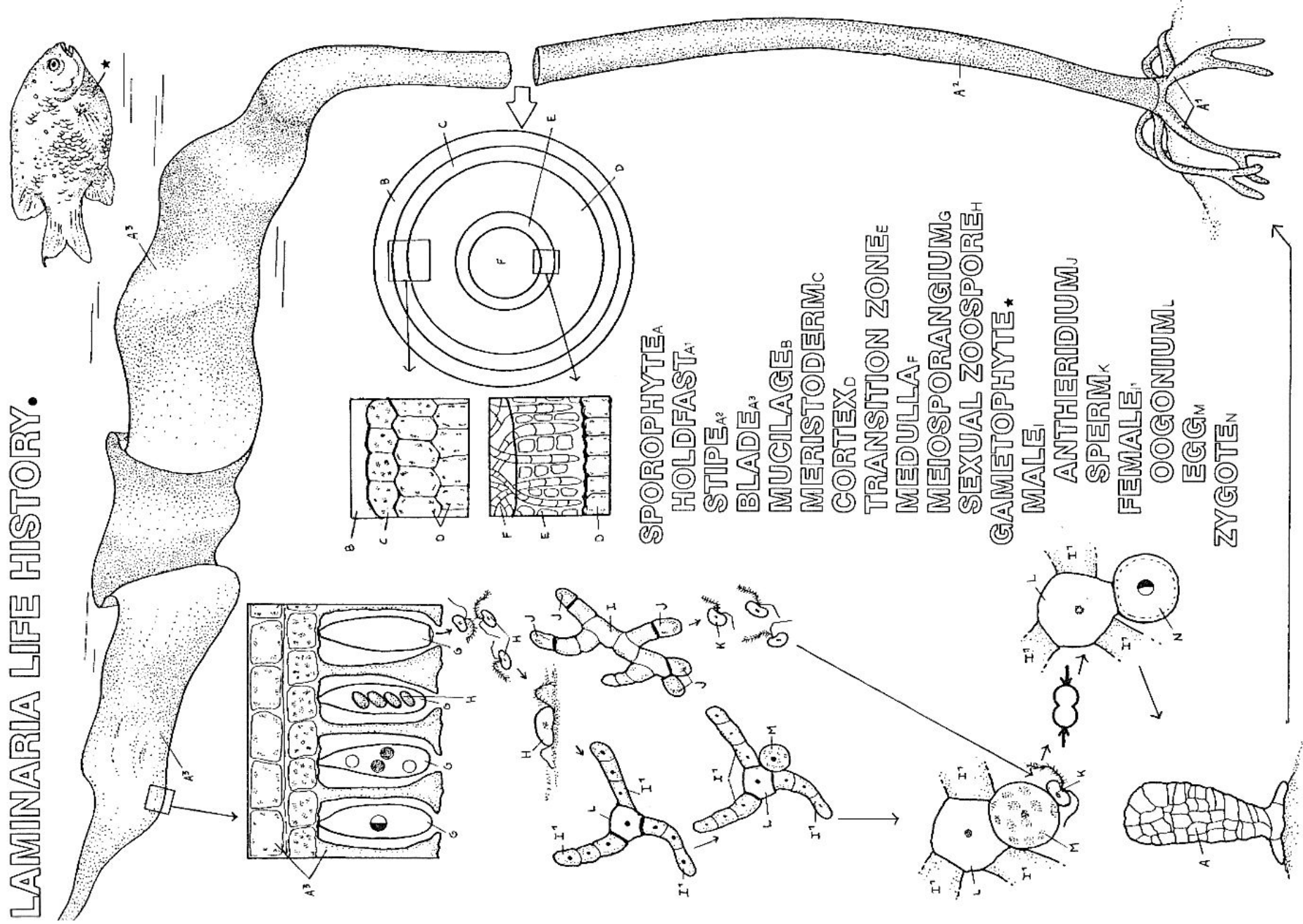
ANTHERIDIUM^O
SPERM^P
ZYGOTE^Q



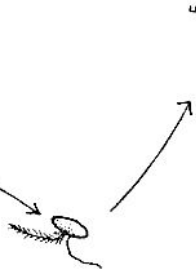
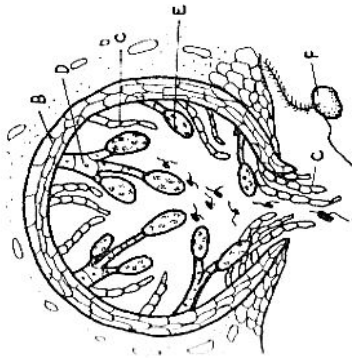
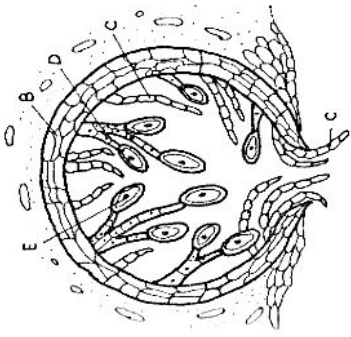
ECTOCARPUS LIFE HISTORY.



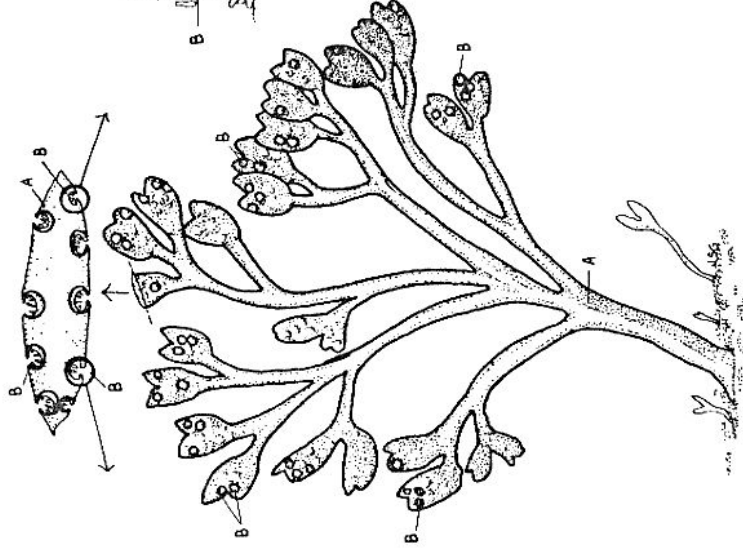
LAMINARIA LIFE HISTORY.



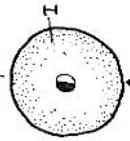
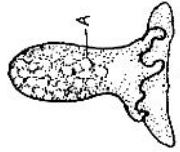
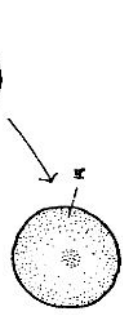
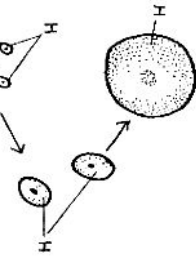
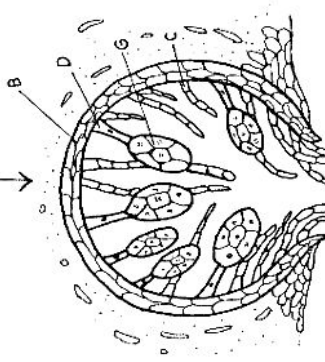
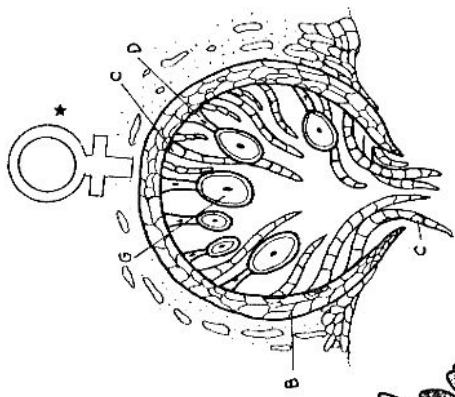
**FUCUS
LIFE
HISTORY.**



**SPOROPHYTE^A
CONCEPTACLE:
PARAPHYSES:
FERTILE FILAMENT,
GAMETANGIUM*
ANTHERIDIUM^E
SPERM^F**

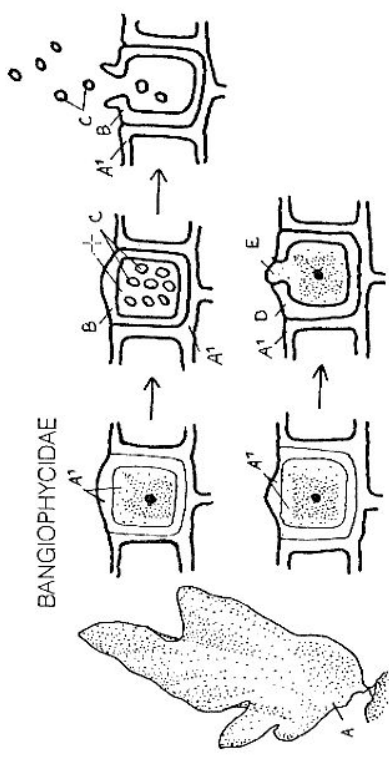


**OOGONIUM^G
EGG^H
ZYGOTE**

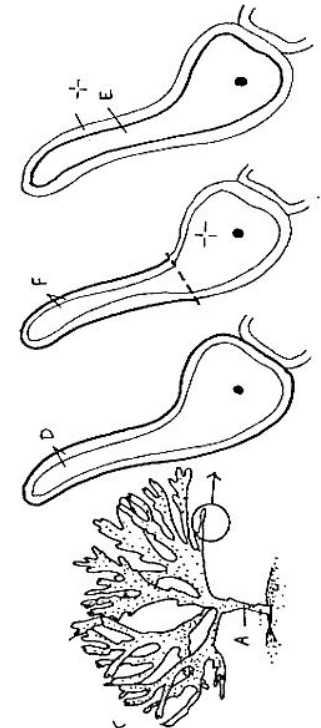
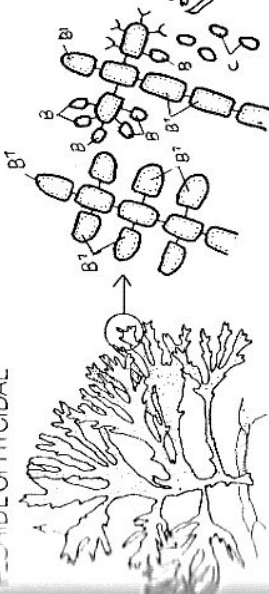


RED ALGAE INTRODUCTION.

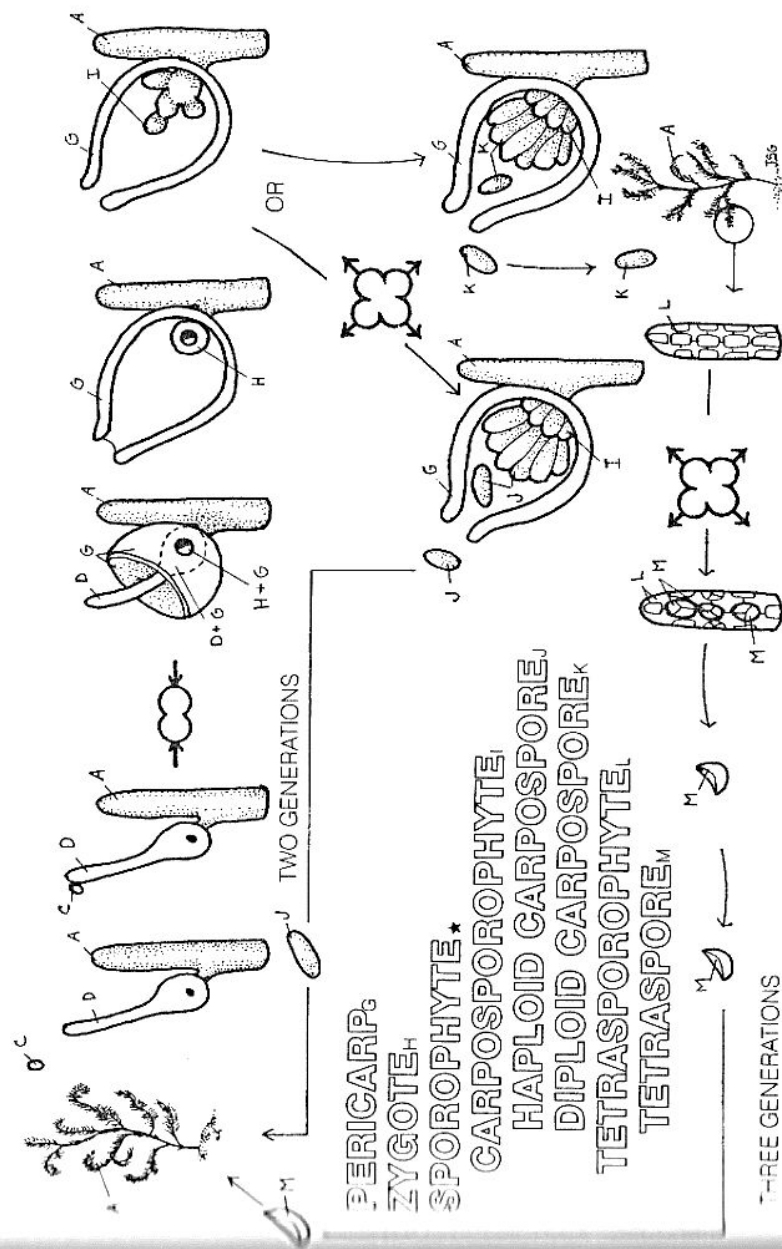
- GAMETOPHYTE_A
- VEGETATIVE CELL_{A'}
- GAMETANGIA*
SPERMATANGIUM_B
SPERMATANGIAL
BRANCH_{B'}
- SPERMATIUM_C
- CARPOGONIUM_D
EGG_E
- TRICHOGYNE_F



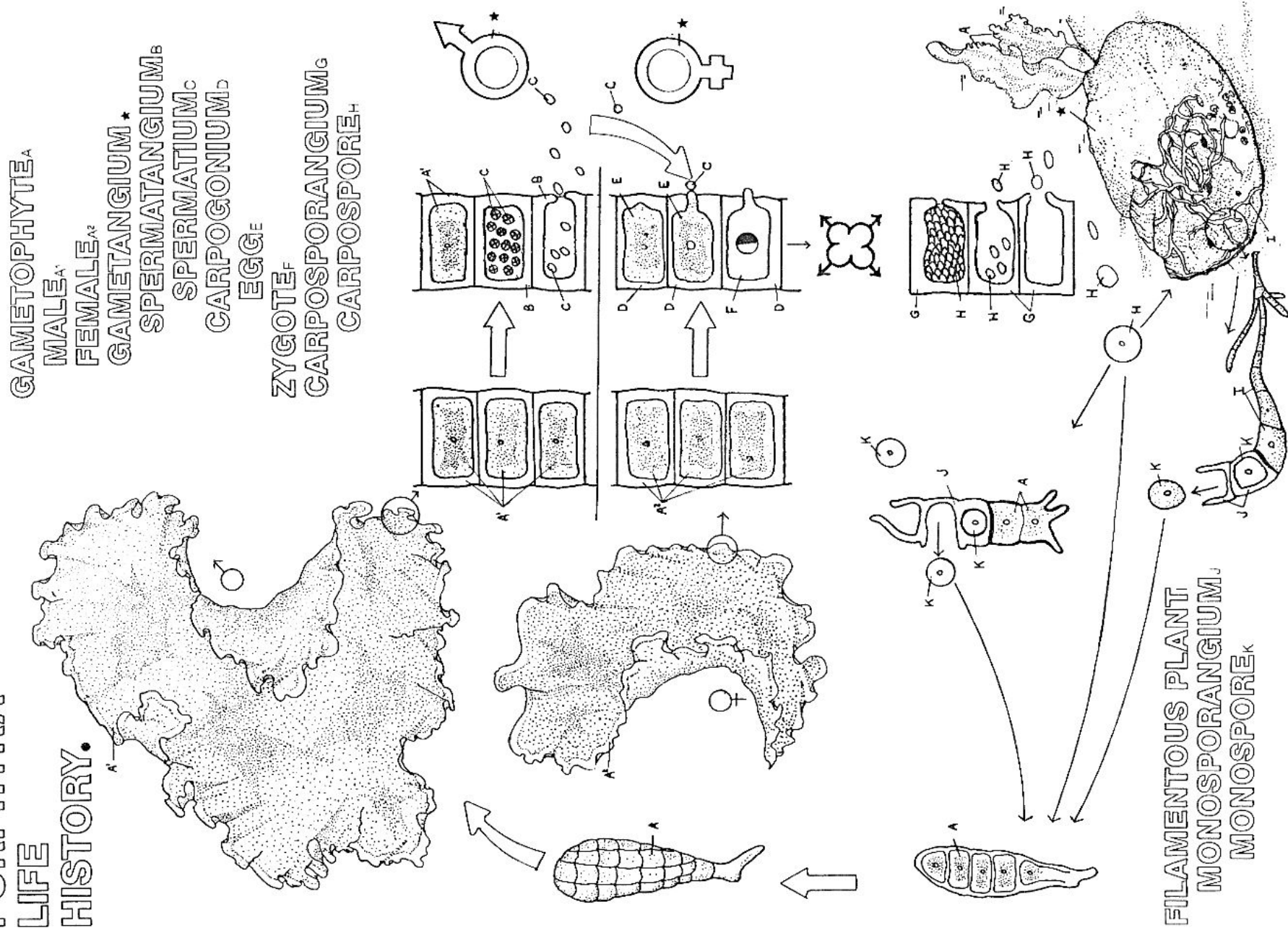
FURCIDEOPHYCIDAE



GENERATIONS*



**PORPHYRA
LIFE
HISTORY.**



POLYSIPHONIA

LIFE

HISTORY.



GAMETOPHYTE*

MALE^A

SPERMATANGIAL CLUSTER^B

SPERMATIUM^{B'}

FEMALE^{A'}

SUPPORT CELL^C

CARPOGONIAL CELL^D

CARPOGONIUM^{D'}

PERICARPE

AUXILIARY CELL^E

GONIMOBLAST INITIAL^G

CARPOSPOROPHYTE*

CARPOSPORE^H

TETRASPOROPHYTE^I

TETRASPORE^{I'}

