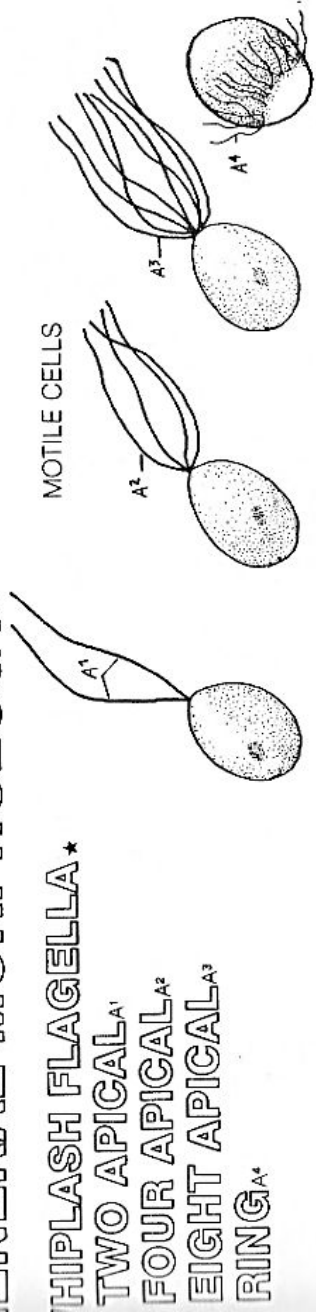
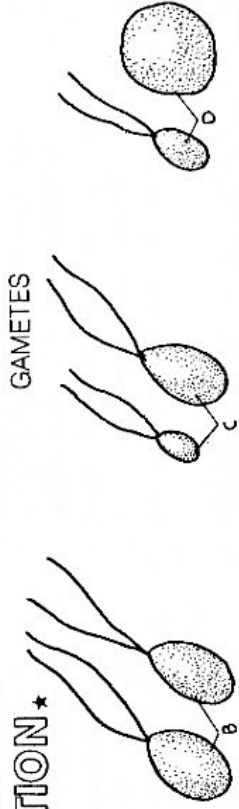


GENERAL MORPHOLOGY.



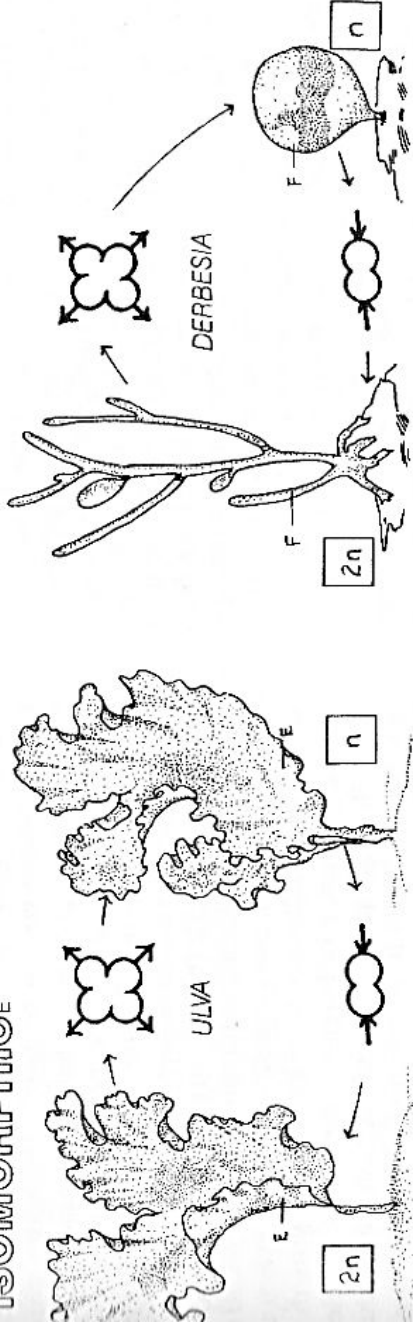
SEXUAL REPRODUCTION*

ISOGAMY:
ANISOGAMY:
OOGAMY:



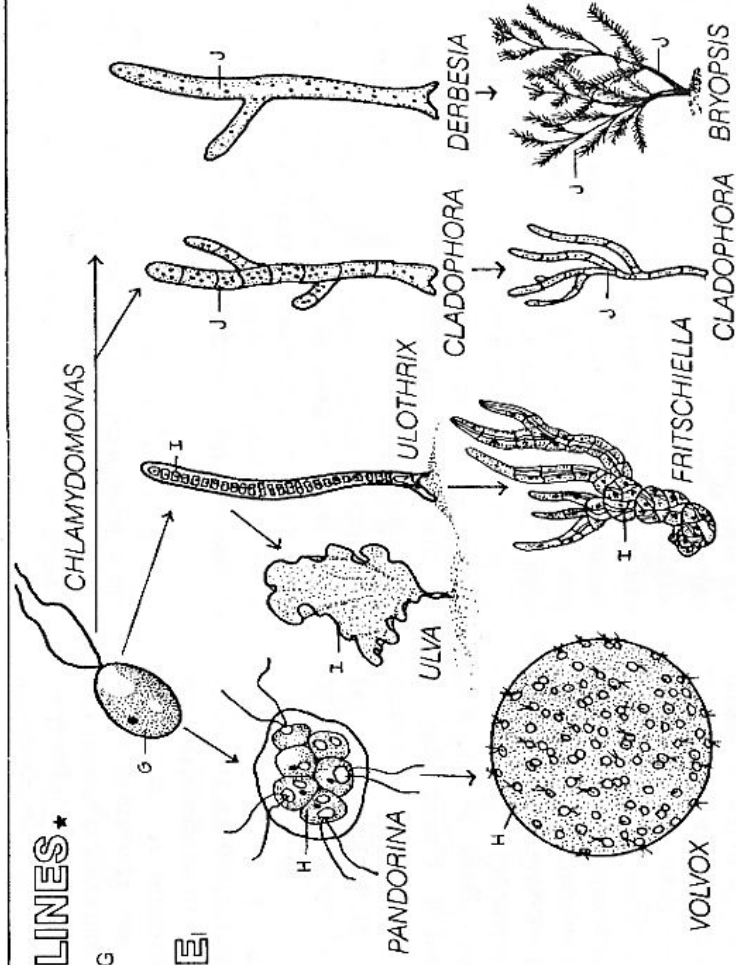
GENERATIONS*
ISOMORPHIC^E

HETEROMORPHIC:



VOLUNTARY LINES*

UNICELLULAR:
VOLVOGINE^H
TETRASPORINE:
SIPHONOUS.



CHLAMYDOMONAS LIFE HISTORY.

CHLAMYDOMONAS CELL*

CELL WALL^A

PROTOPLAST*

CYTOPLASM^B

CHLOROPLAST^C

PYRENOID^D

STARCH GRAIN^E

EYE SPOT^F

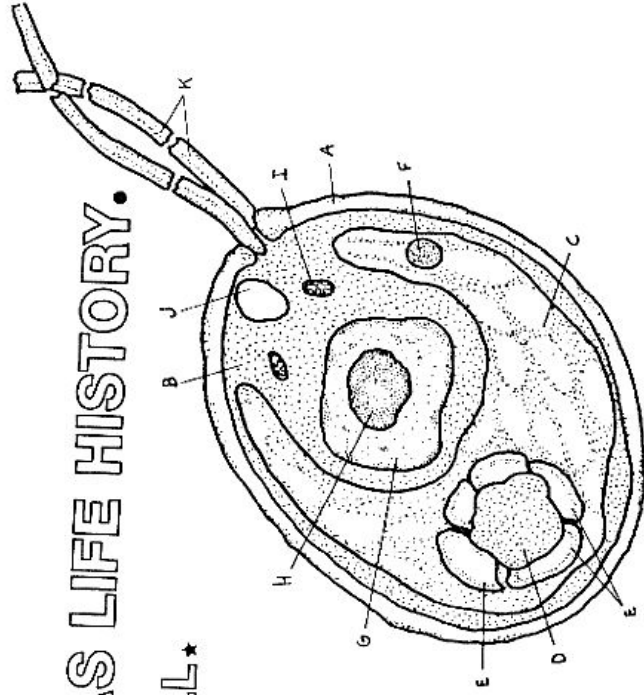
NUCLEUS^G

NUCLEOLUS^H

MITOCHONDRION^I

CONTRACTILE VACUOLE^J

FLAGELLUM^K

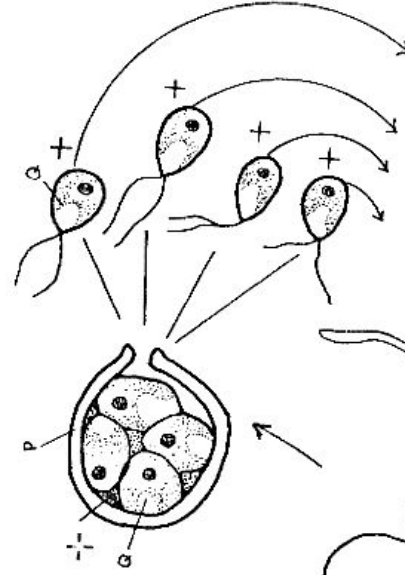


ASEXUAL

REPRODUCTION*

MITOSPORANGIUM^P

ASEXUAL ZOOSPORE⁺



SEXUAL

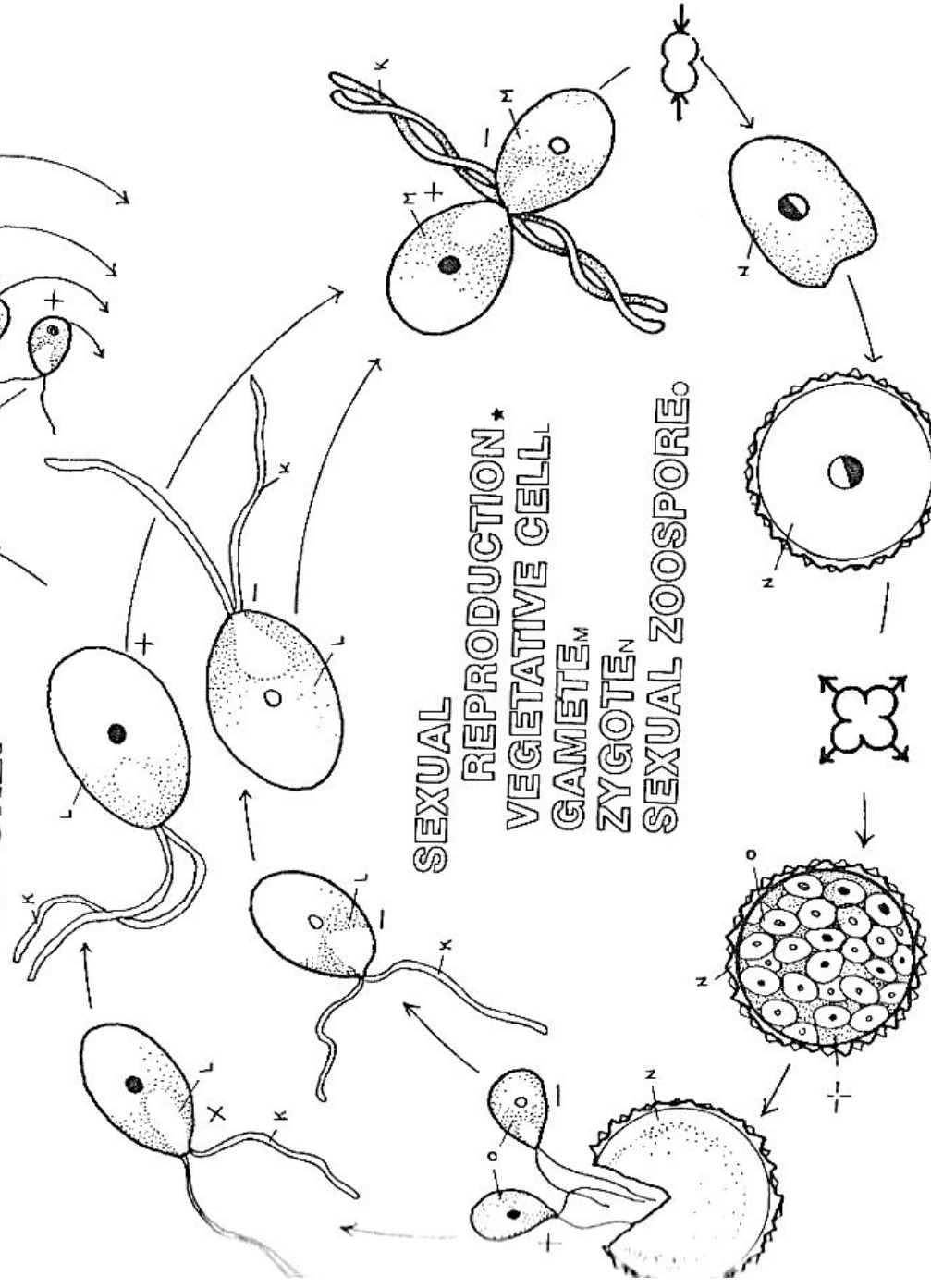
REPRODUCTION*

VEGETATIVE CELL^L

GAMETE^M

ZYGOTE^N

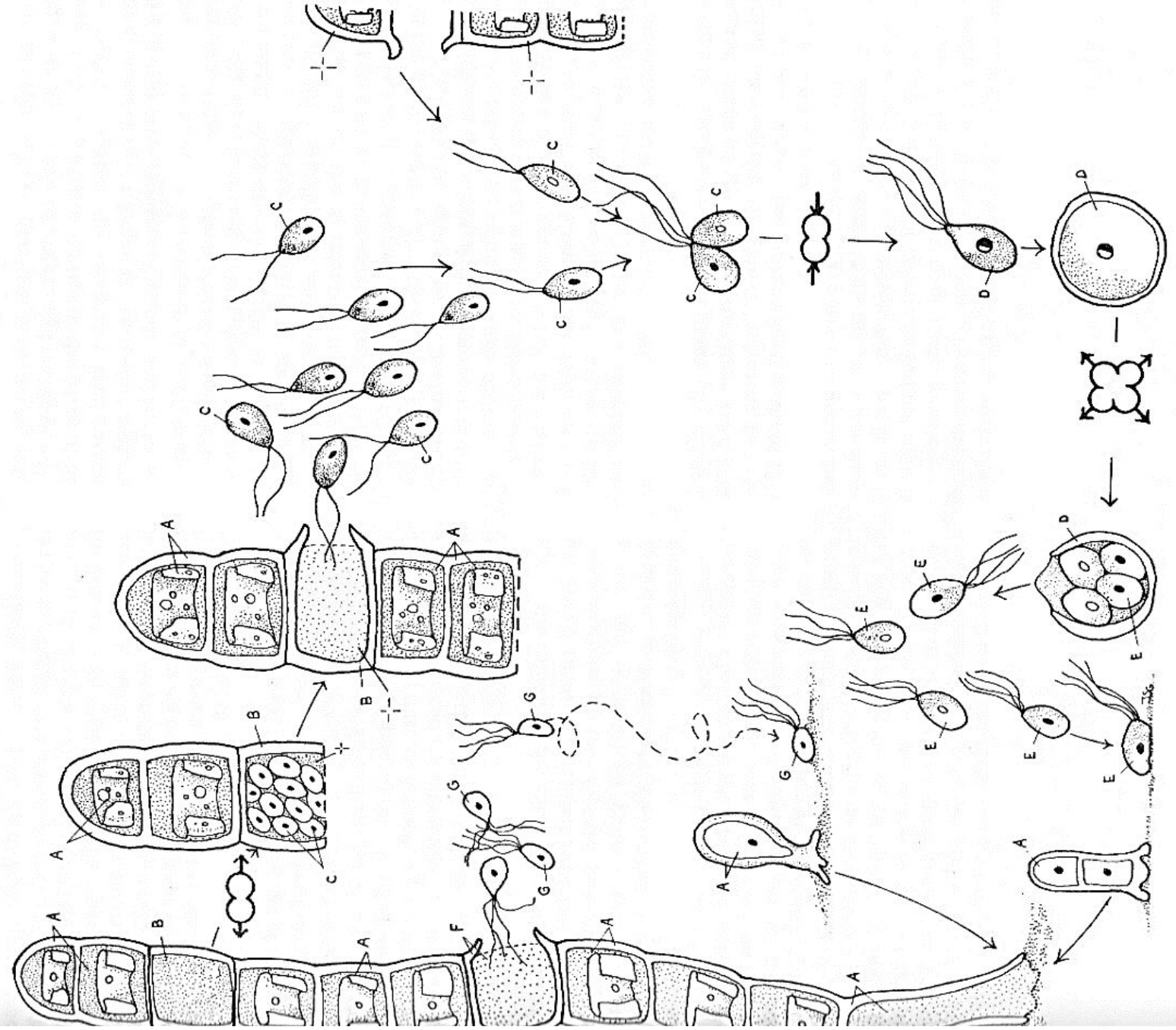
SEXUAL ZOOSPORE⁺



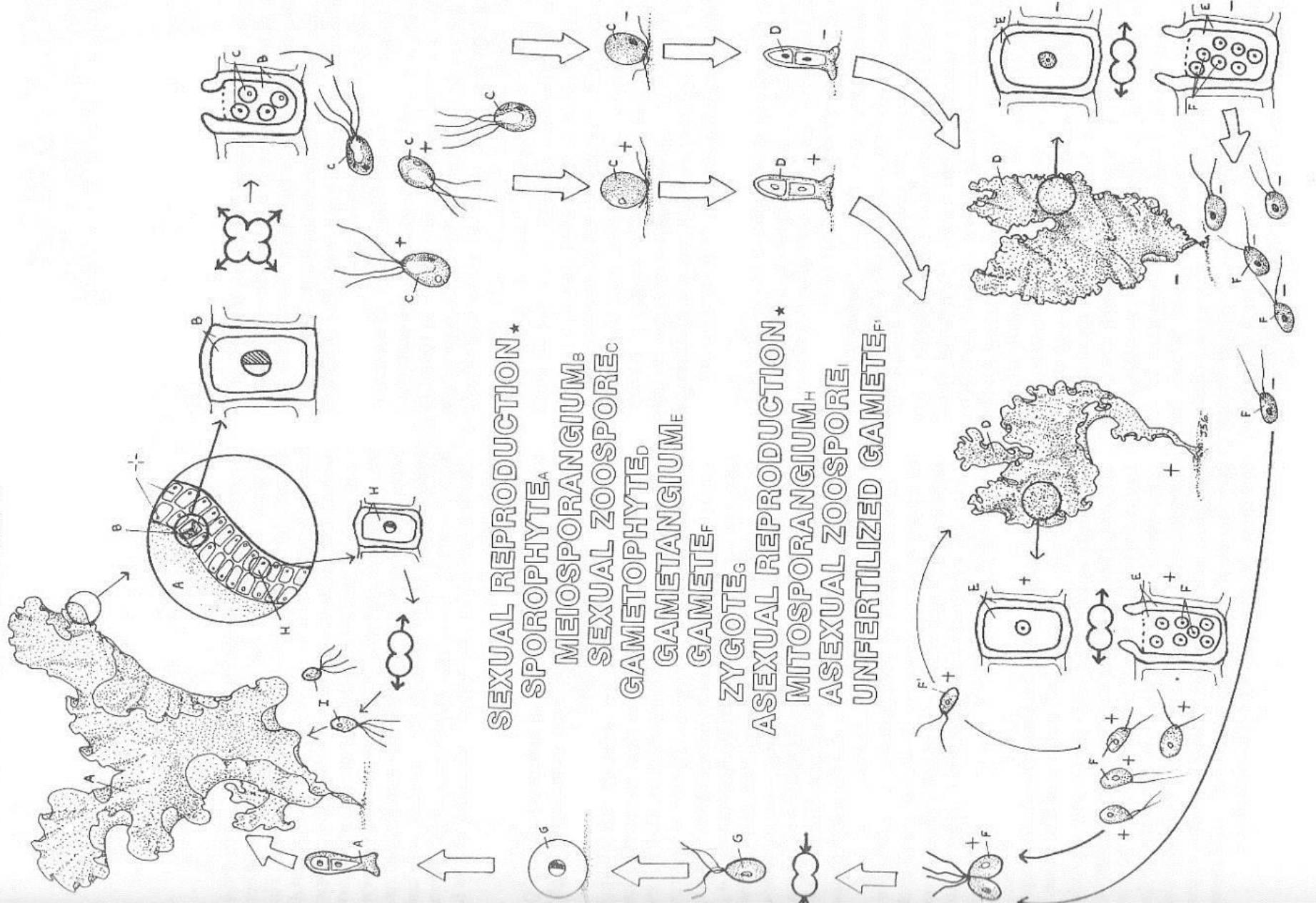
ULOTHRIX LIFE HISTORY.

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

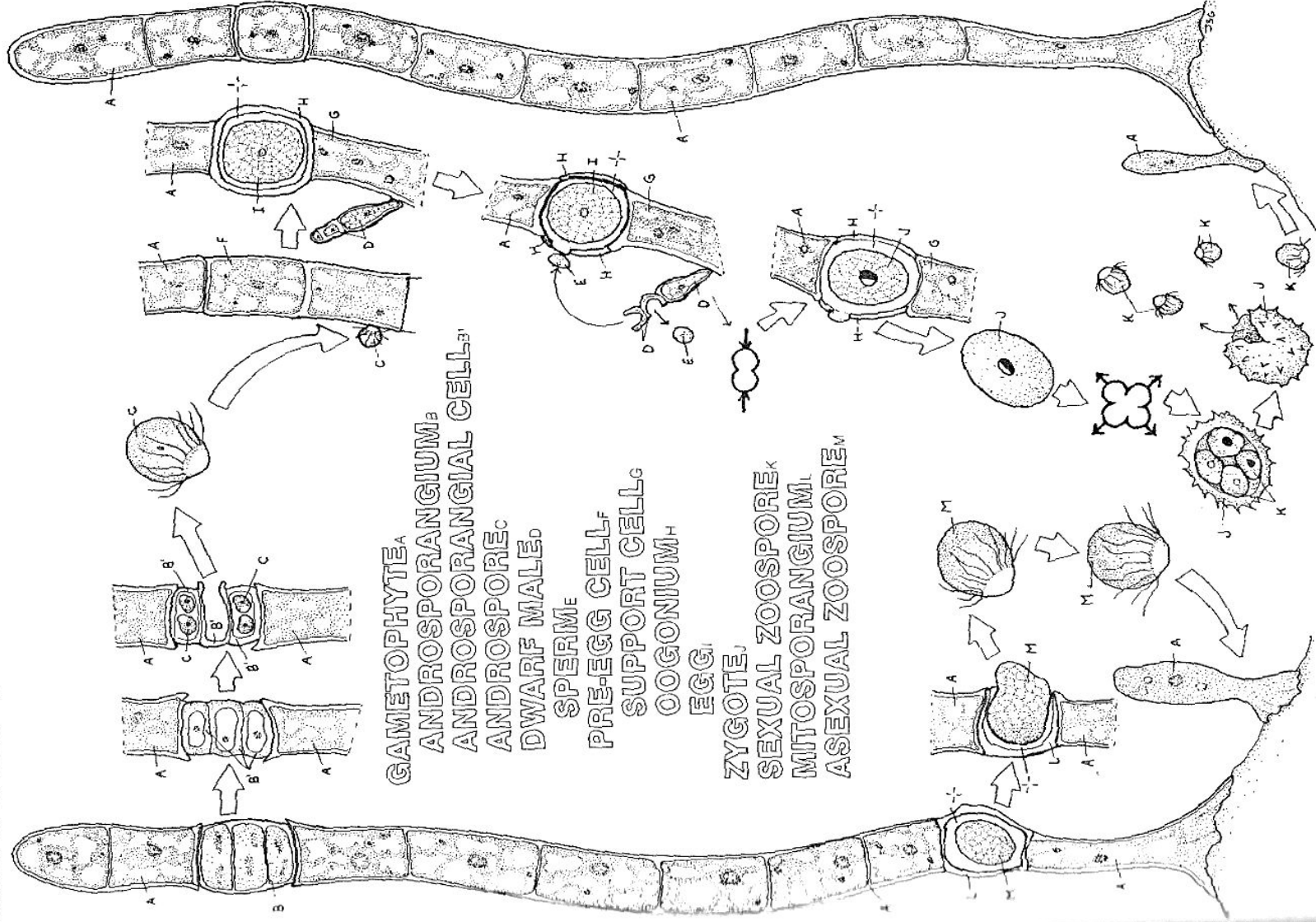
ASEXUAL REPRODUCTION*
 MITOSPORANGIUM^F
 ASEXUAL ZOOSPORE^G



ULVA LIFE HISTORY.



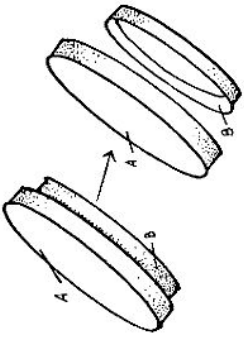
OEDOGONIUM LIFE HISTORY.



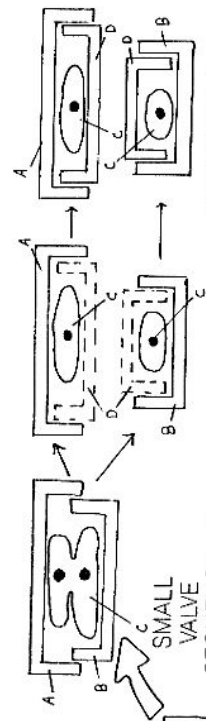
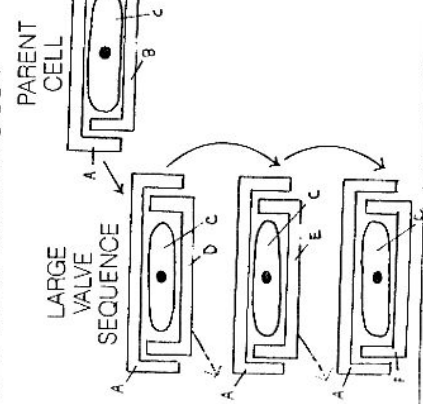
GOLDEN-BROWN ALGAE INTRODUCTION.

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

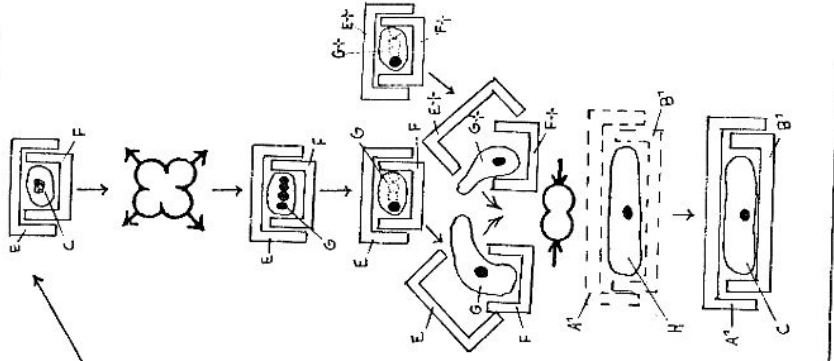
PROGENY VALVES*
 1st GENERATION^D
 2nd GENERATION^E
 3rd GENERATION^F
 GAMETE^G
 ZYGOTE^H



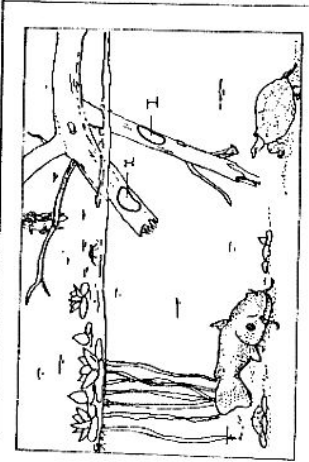
ASEXUAL REPRODUCTION*



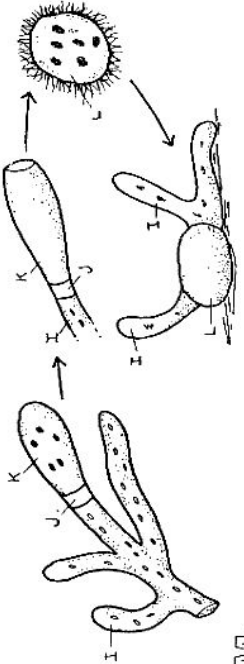
SEXUAL REPRODUCTION*



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

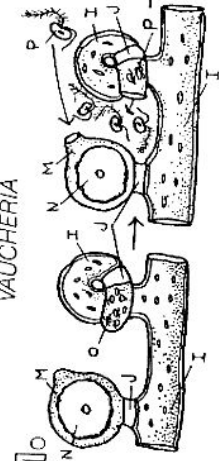


ASEXUAL REPRODUCTION



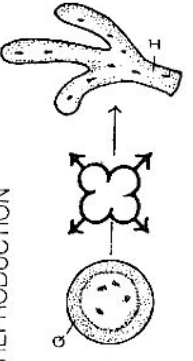
COGONIDIUM^M
EGG^N

VAUCHERIA

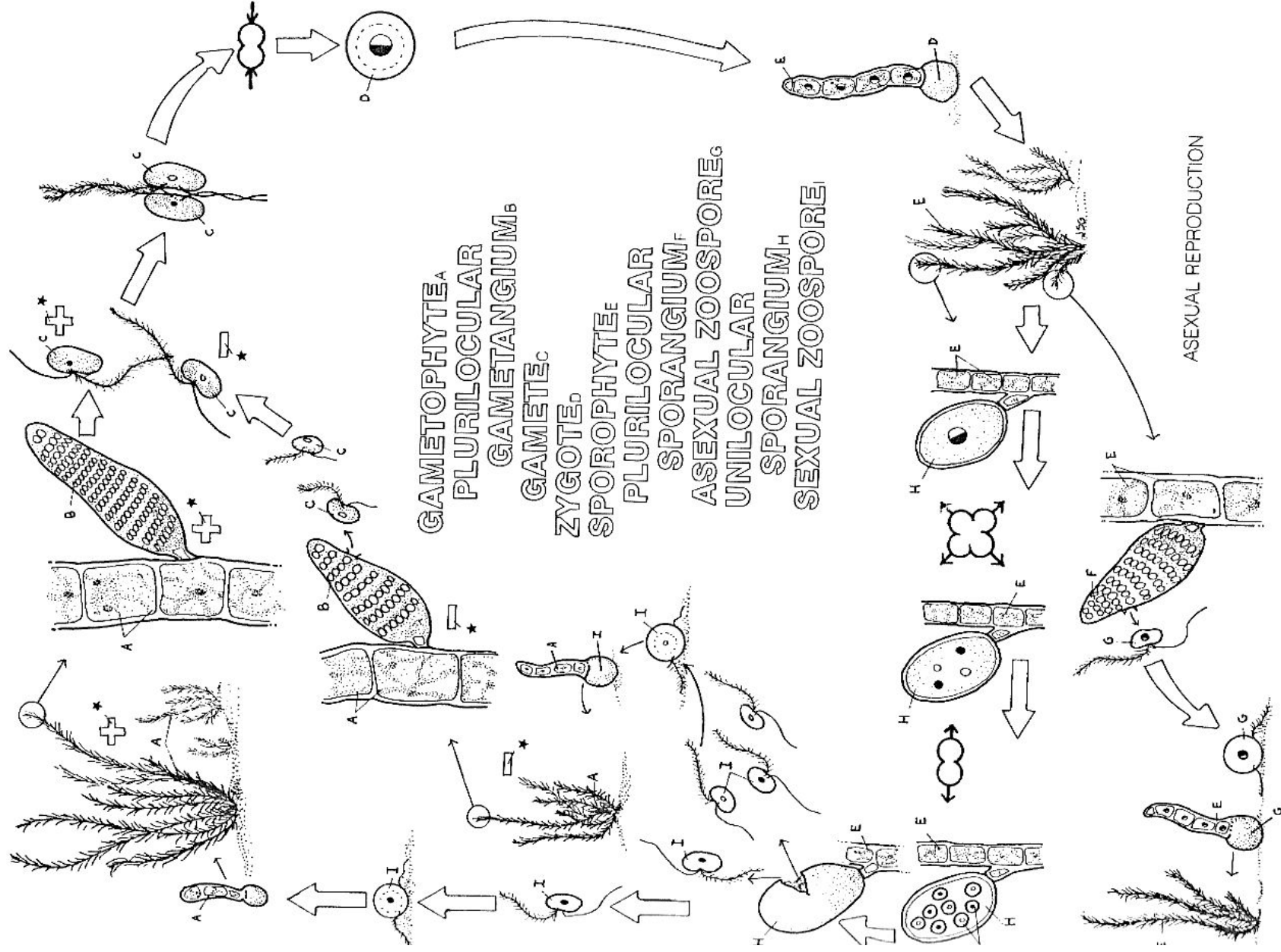


ANTHERIDIUM^O
SPERM^P
ZYGOTE^Q

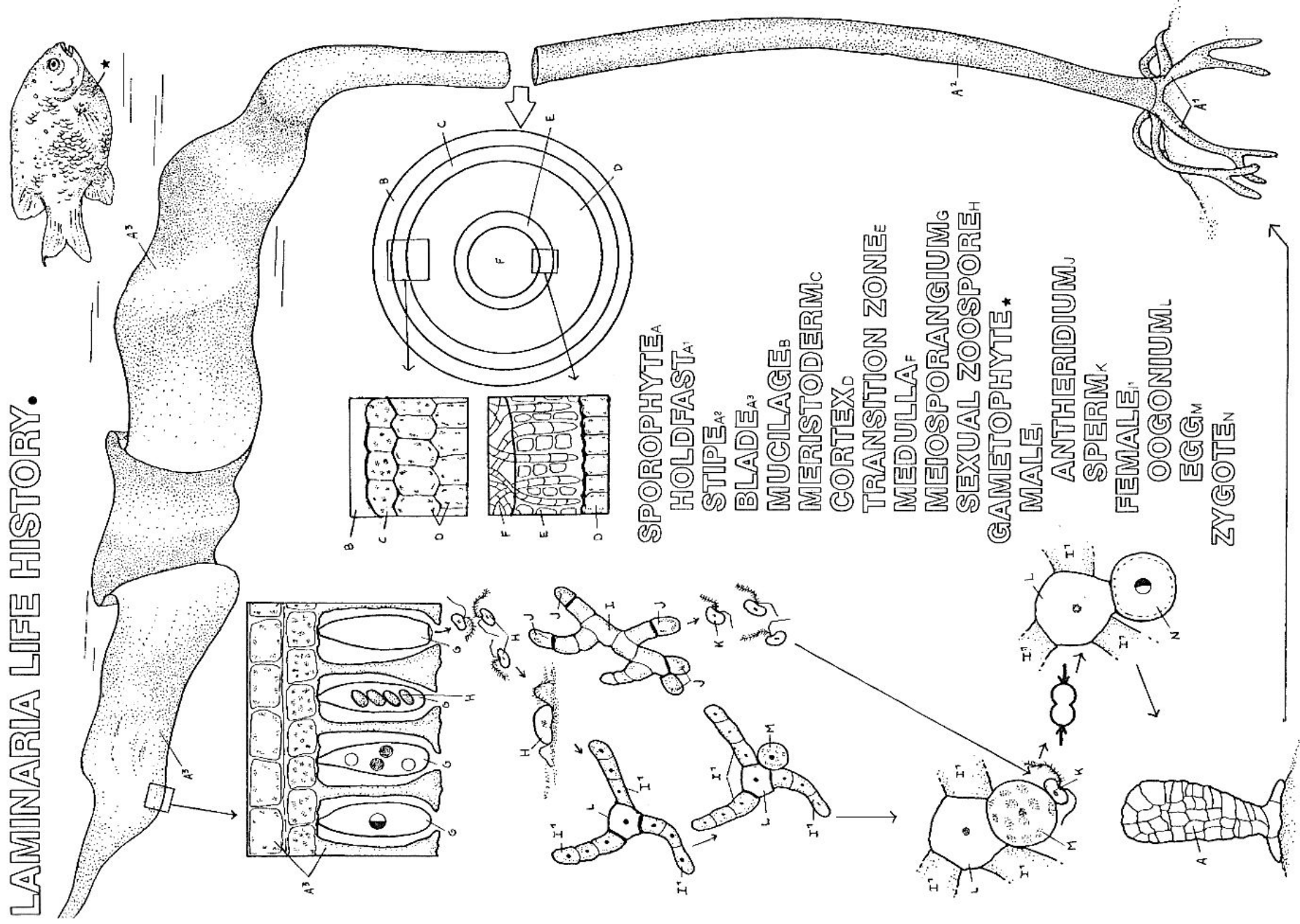
SEXUAL REPRODUCTION



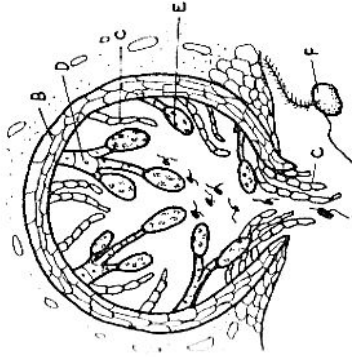
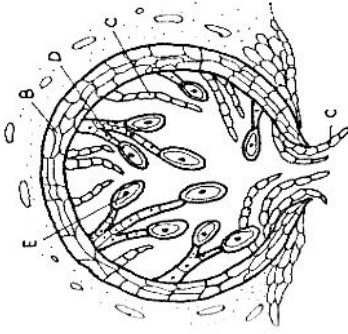
ECTOCARPUS LIFE HISTORY.



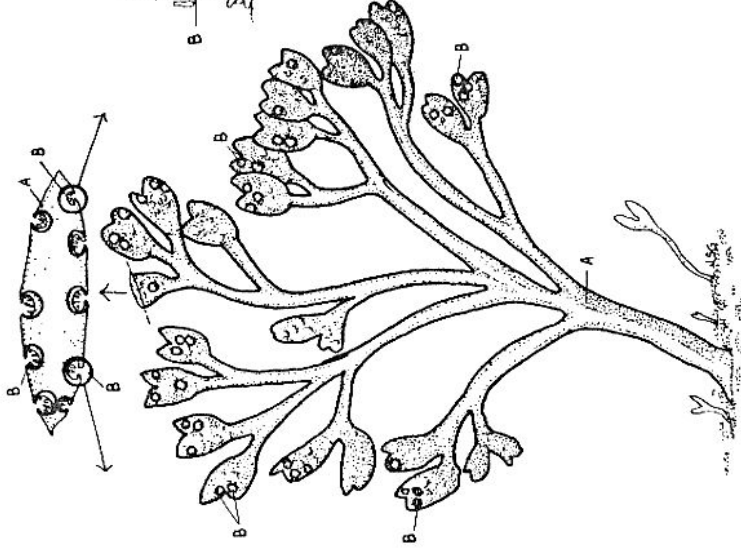
LAMINARIA LIFE HISTORY.



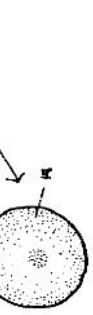
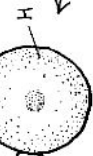
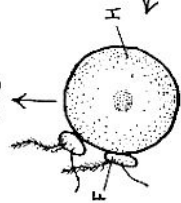
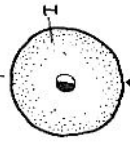
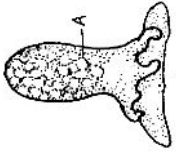
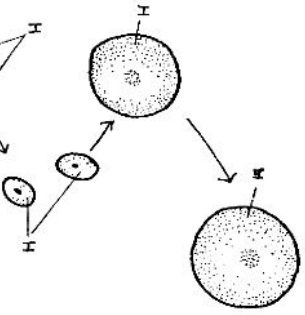
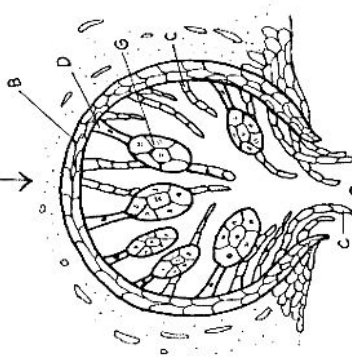
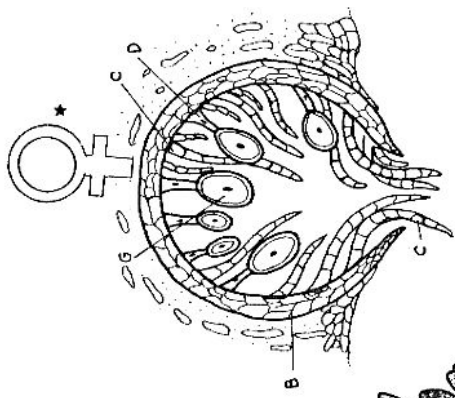
**FUCUS
LIFE
HISTORY.**



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

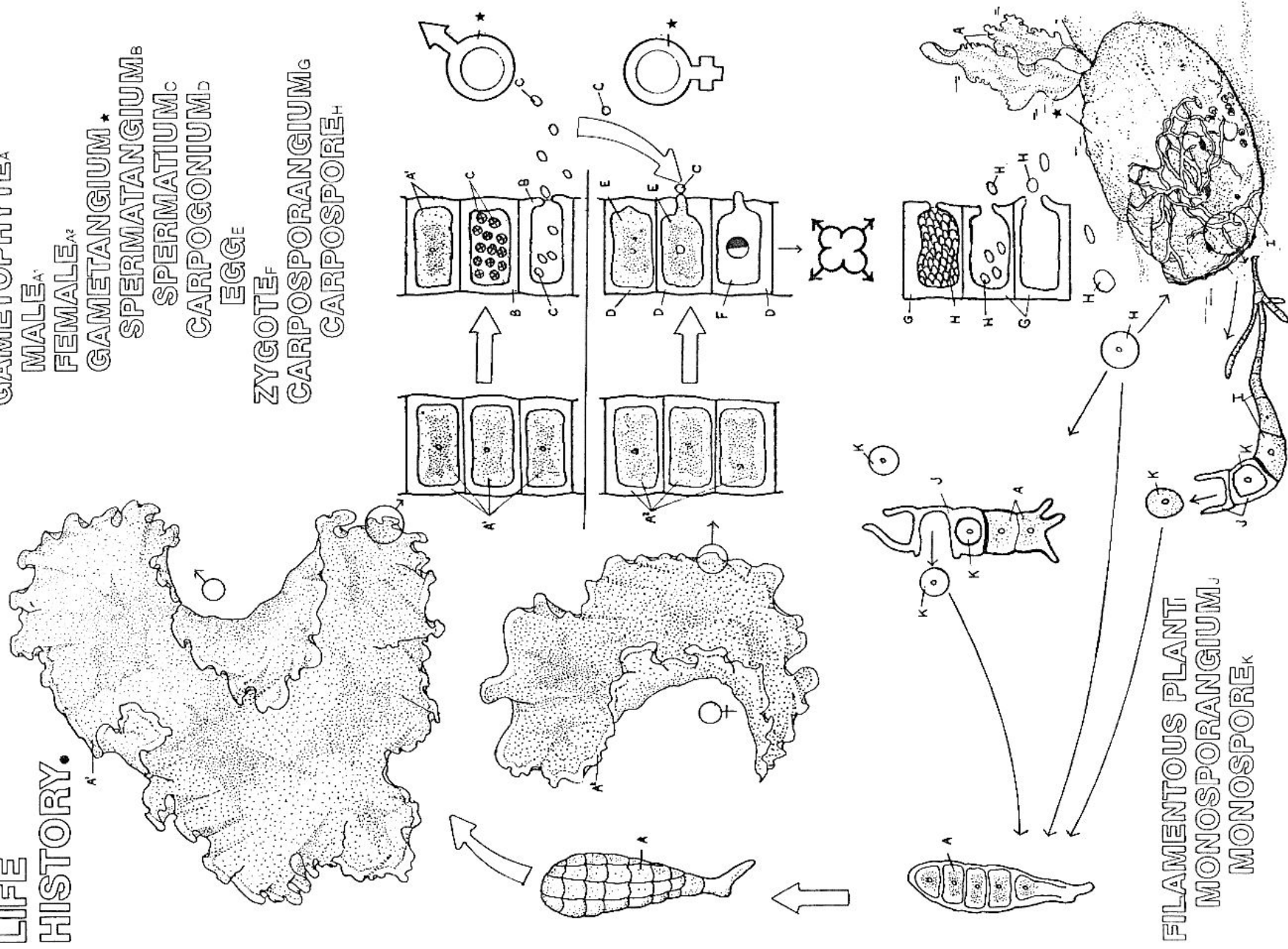


OOGONIUM,^G
 EGG,^H
 ZYGOTE.



**PORPHYRA
LIFE
HISTORY.**

GAMETOPHYTE^A
 MALE^{A'}
 FEMALE^{A''}
 GAMETANGIUM^B
 SPERMATANGIUM^C
 CARPOGONIUM^D
 EGG^E
 ZYGOTE^F
 CARPOSPORANGIUM^G
 CARPOSPORE^H



FILAMENTOUS PLANT^I
 MONOSPORANGIUM^J
 MONOSPORE^K

POLYSIPHONIA

LIFE

HISTORY.



GAMETOPHYTE*

MALE^A

SPERMATANGIAL CLUSTER^B

SPERMATIUM^{B'}

FEMALE^{A'}

SUPPORT CELL^C

CARPOGONIAL CELL^D

CARPOGONIUM^{D'}

PERICARPE^E

AUXILIARY CELL^F

GONIMOBlast INITIAL^G

CARPOSPOROPHYTE*

CARPOSPORE^H

TETRASPOROPHYTE^I

TETRASPORE^{I'}

