

Pteridophyta
टेरिडोफाइटा

Equisitum
इक्वीसीटम

Horse tail
घोड़े की पूंछ



Pteridophyta = उदाहरण ex
टेरिडोफाइटा

⇒ Diksonia डिकसोनिया

⇒ wisk fern विस्क फर्न

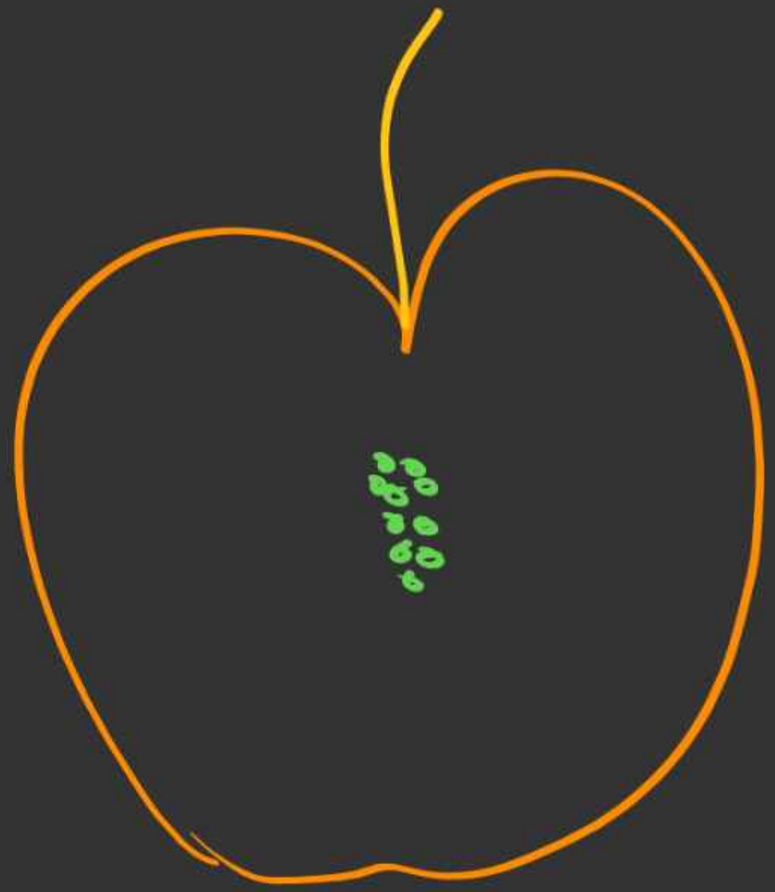
⇒ Lycopodium लाइकोपोडियम

पुष्पी पौधे ⟹ बीज बनते हो
Phenerogamus Seed formation

अनावृतबीजी
Gymnosperm
पुष्प नहीं मिलते हो
No flower.
नग्न बीजी कहते हो
Naked seed

आवृतबीजी =
Angiosperm.





Plant classification
पादप वर्गीकरण

Bryophyta ब्रायोफाइटा

⇒ सत्य जड़ तना, पत्तियां नहीं पायी जाती हैं ॥
True Roots, stem, and leaves are not present.

⇒ पीढ़ी स्थानान्तरण दिखाते हैं ॥
Show Alternation of Generation

ANCILLARY BOTANY
PLANT DIVERSITY





Selaginella

4-2

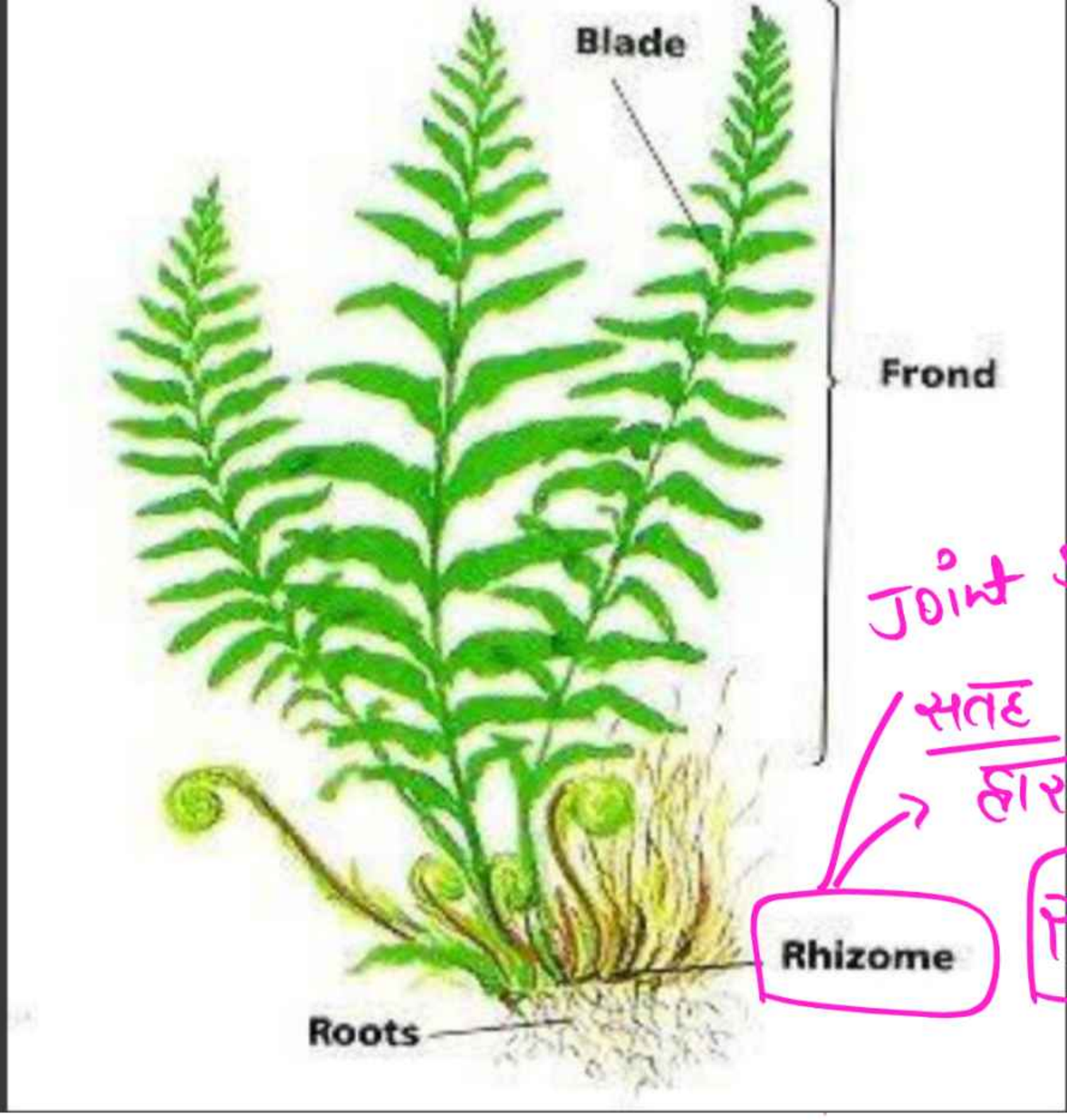
PTERIDOPHYTES
-SELAGINELLA

सेलैजीनेला









Joint substratum

सतह

Rhizome

राइजोम

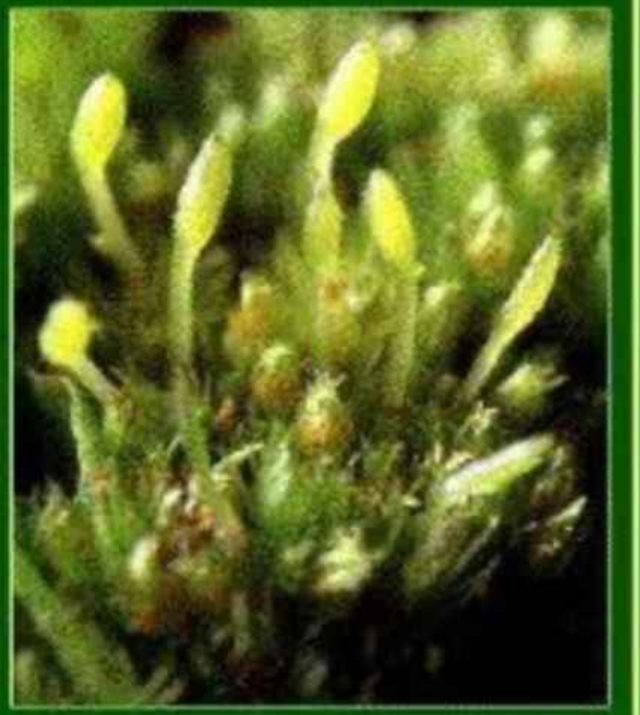
BRYOPHYTES



Hornworts



Liverworts



Mosses

Examples of **Bryophytes**

Liverworts लीवरवर्ट



> Marchantia
> Riccia
> Pellia

Mosses मॉस



> Funaria
> Polytrichum
> Sphagnum

Hornworts हार्नवर्ट



> Anthoceros
> Notothylas
> Megaceros

Pteridophyta टेरिडोफाइटा

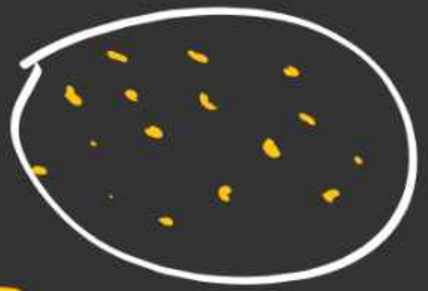
=) प्रथम जमीनी पौधे first Terrestrial plant.

=) प्रथम संवहनी पौधे वे first vascular plant (अपूर्ण) uncomplete

=) बीज रहित पादप हो seedless plant

=) सत्य जड़ तना व पत्तिया जाती हो =) true Roots, stem & leaves are present

=) बीजाणु, बीजाणुधानी में बनते हो



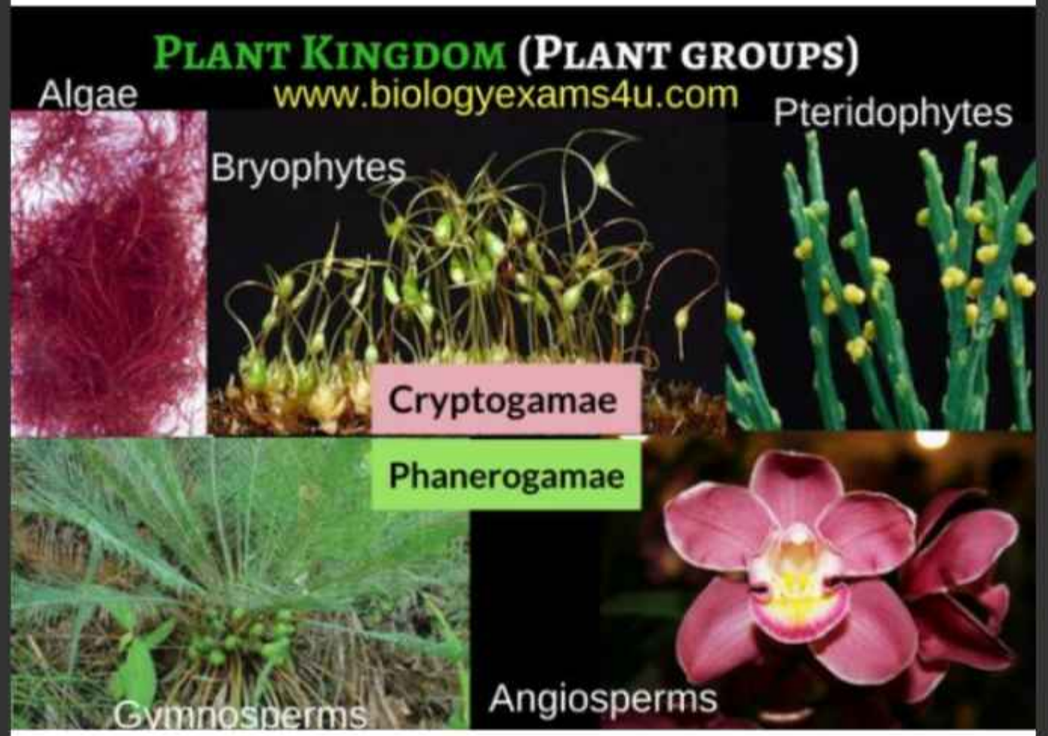
formation of spores take place in sporangia

⇒ नर भाग ⇒ Male part → Antheridium एंथ्रीडियम

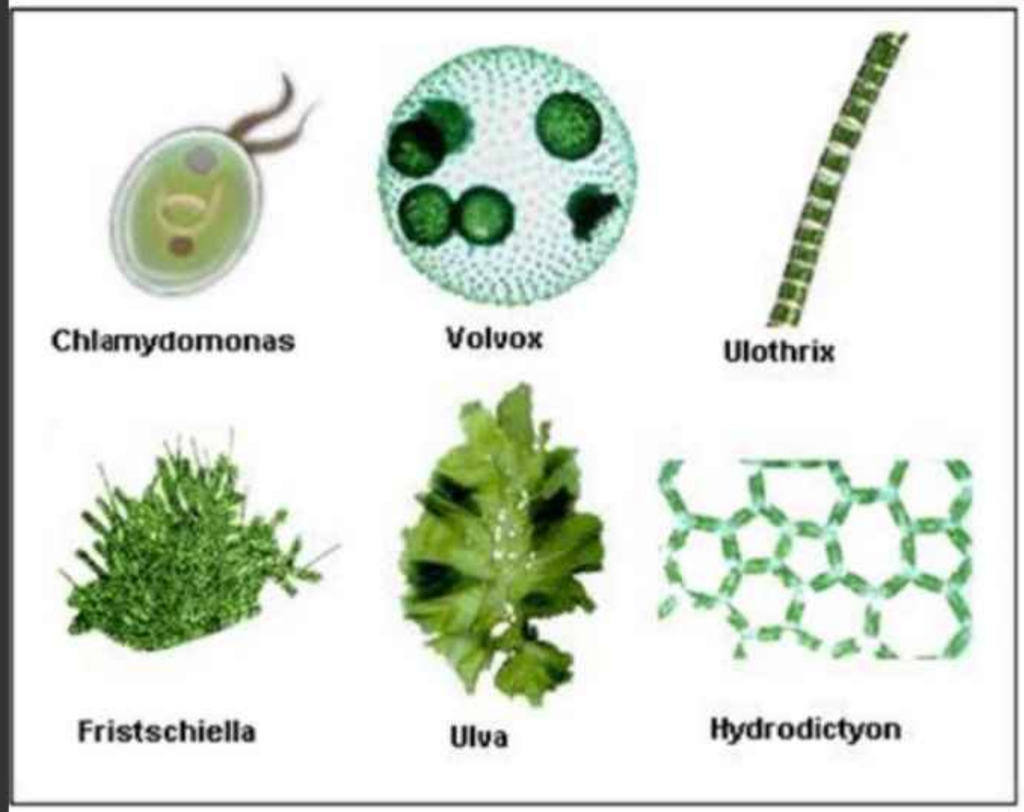
⇒ मादा भाग ⇒ female part → Archegonium आर्किगोनियम

Pteridophyta → उदाहरण
टेरीडोफाइटा → Ex

फर्न Fern = सजावटी पौधा
Decorative plant


PLANT KINGDOM (PLANT GROUPS)
www.biologyexams4u.com
Algae
Bryophytes
Pteridophytes
Cryptogamae
Phanerogamae
Gymnosperms
Angiosperms


PHAEOPHYCEAE
Ectocarpus
Tilopteris
Cutleria
Desmarestia
Laminaria
Sphacelaria
Sporochnus
Dicotyota
Sargassum
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Chlamydomonas
Volvox
Ulothrix
Fristschiella
Ulva
Hydrodictyon

WHAT ARE BRYOPHYTES?



liverworts

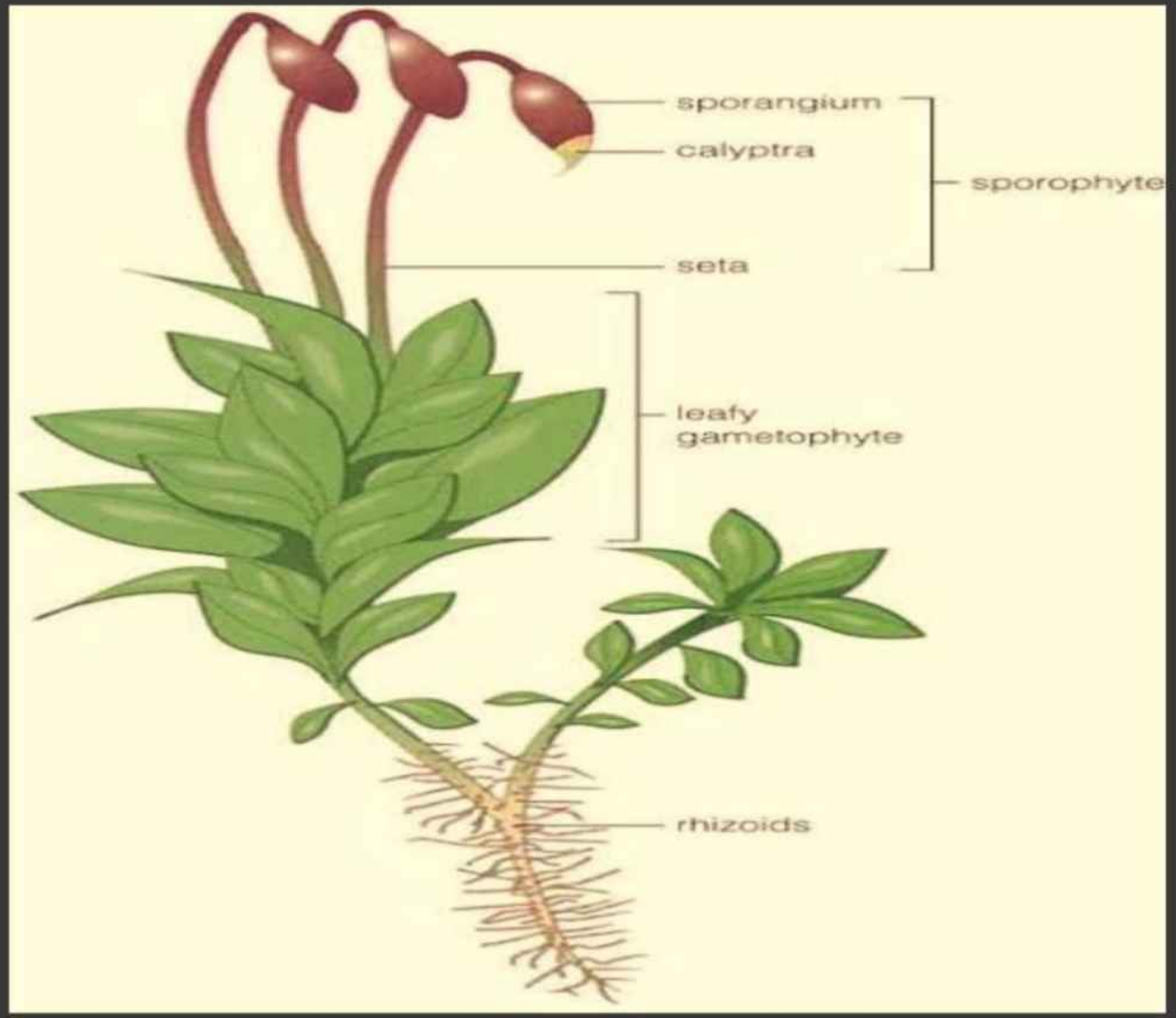


hornworts



mosses

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sporangium
calyptra
sporophyte
seta
leafy
gametophyte
rhizoids

दो अवस्था

Two stages

② Sporophyte बीजाणुधिद

Capsule कैप्सूल

Seta सीता

Leaves

Root like
stem like
leaves like

जड़ तना पत्तियां ①

Gametophyte युग्मकधिद

Main axis

Rhizoids

Male & female नर + मादा जनन हो

पीढ़ी एकान्तरण

Alternation of Generation

दो अवस्थाएं
two stages

Male + female
नर + मादा बनते हैं

Gamelophytic युग्मोभिद

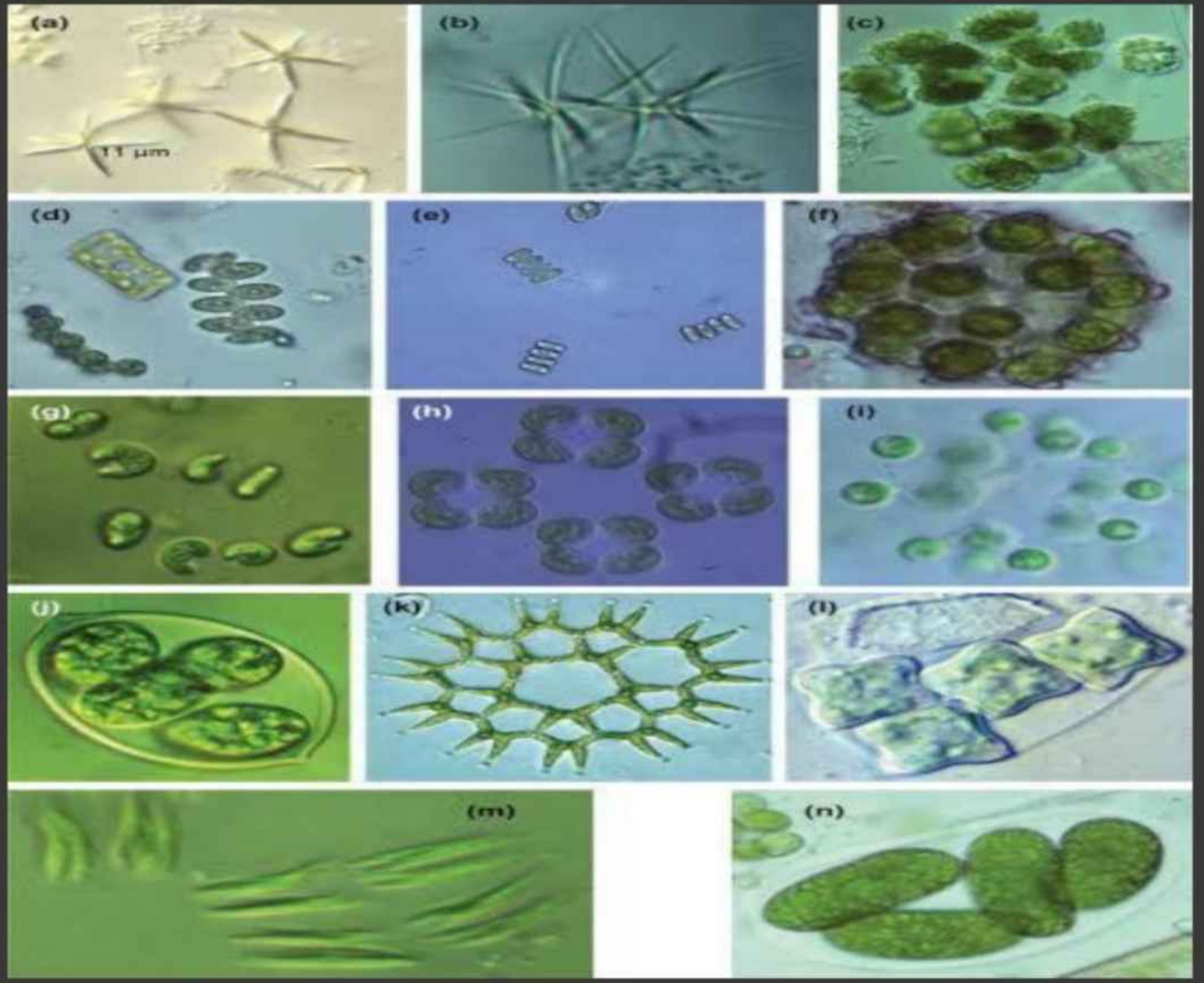
→ जड़ तना पत्तियां
Root, stem, leaves

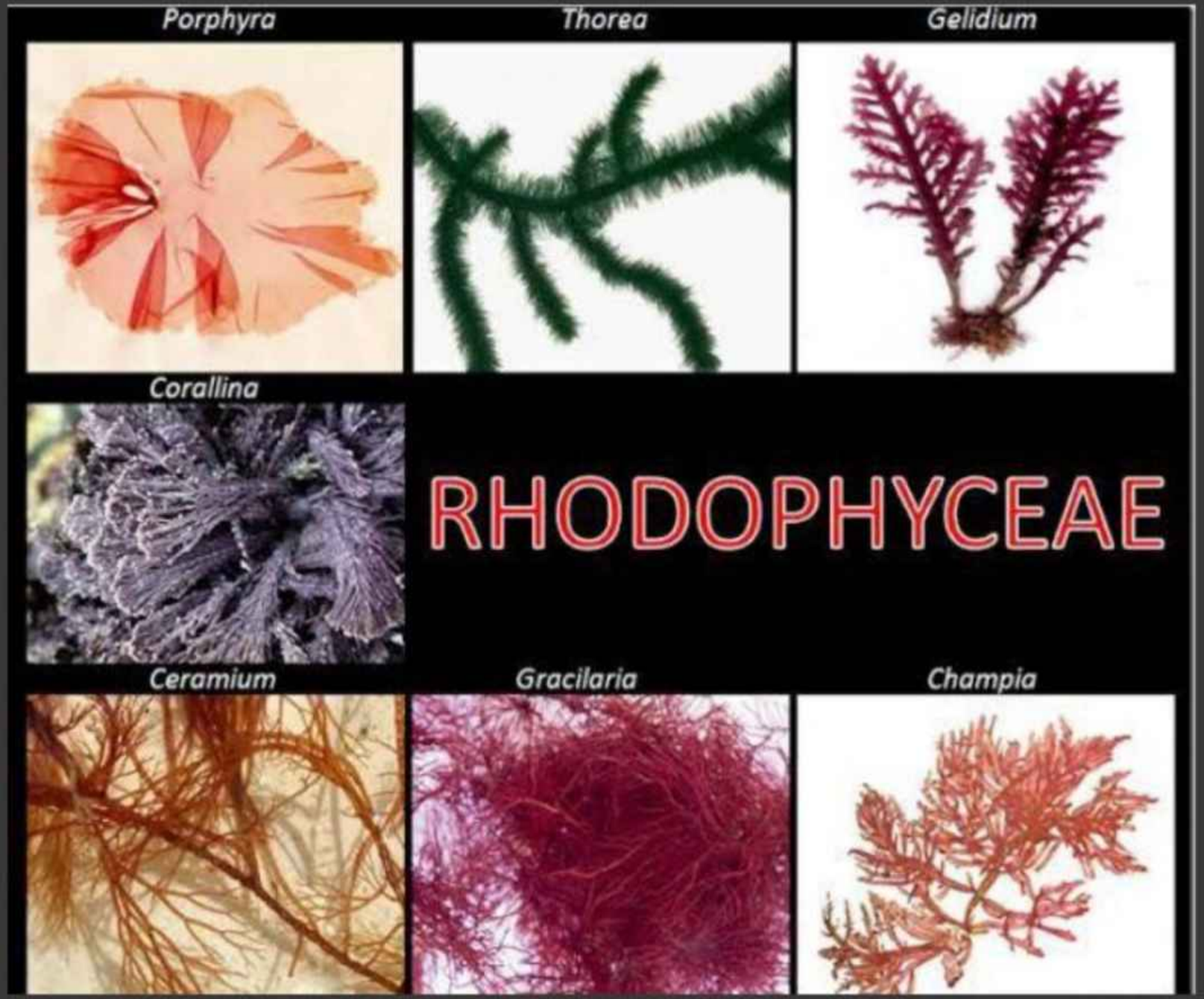
निर्भर करता
Depends on

Sporophytic बीजाणुभिद

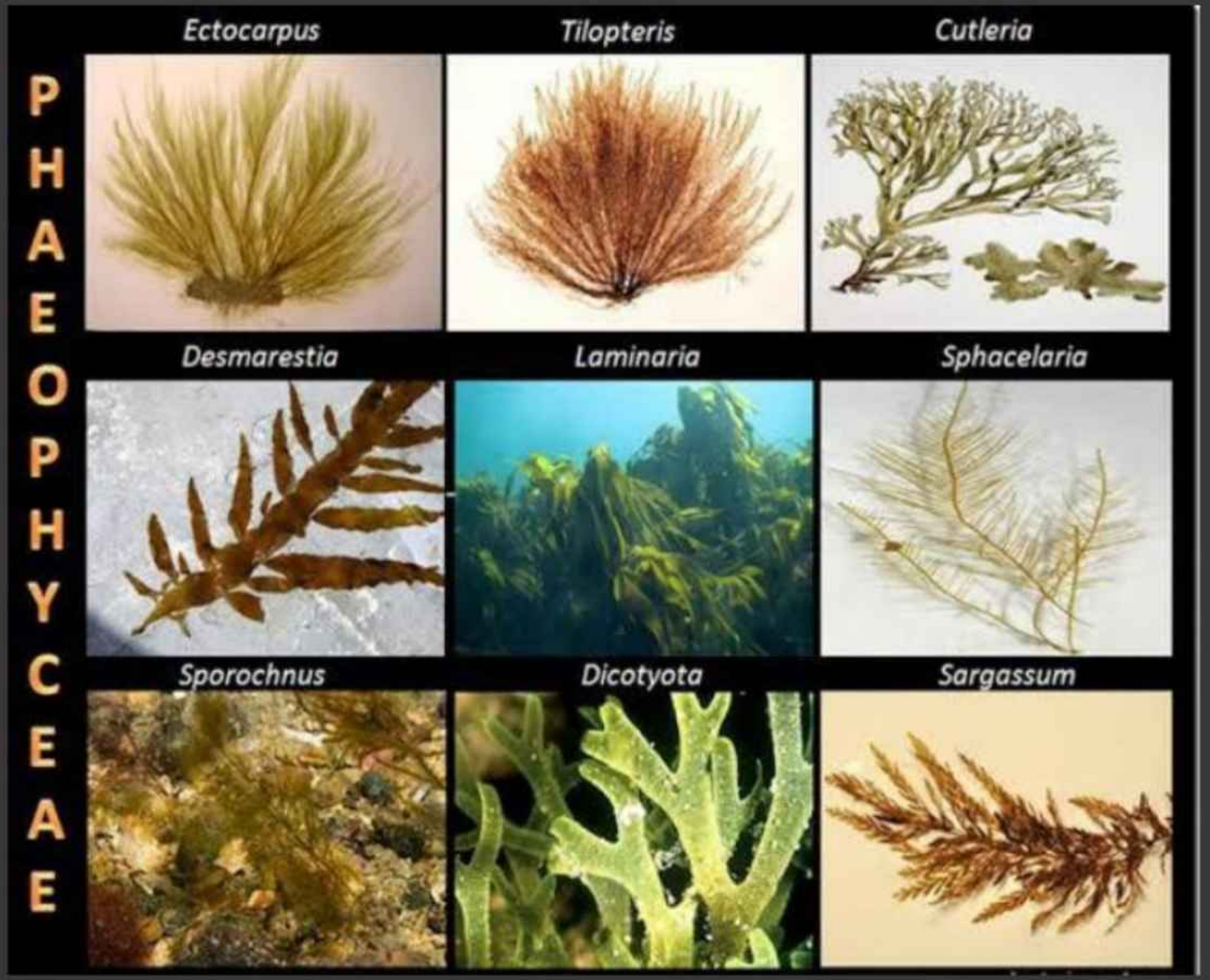
↳ Capsul कैप्सुल
↳ seta सीता

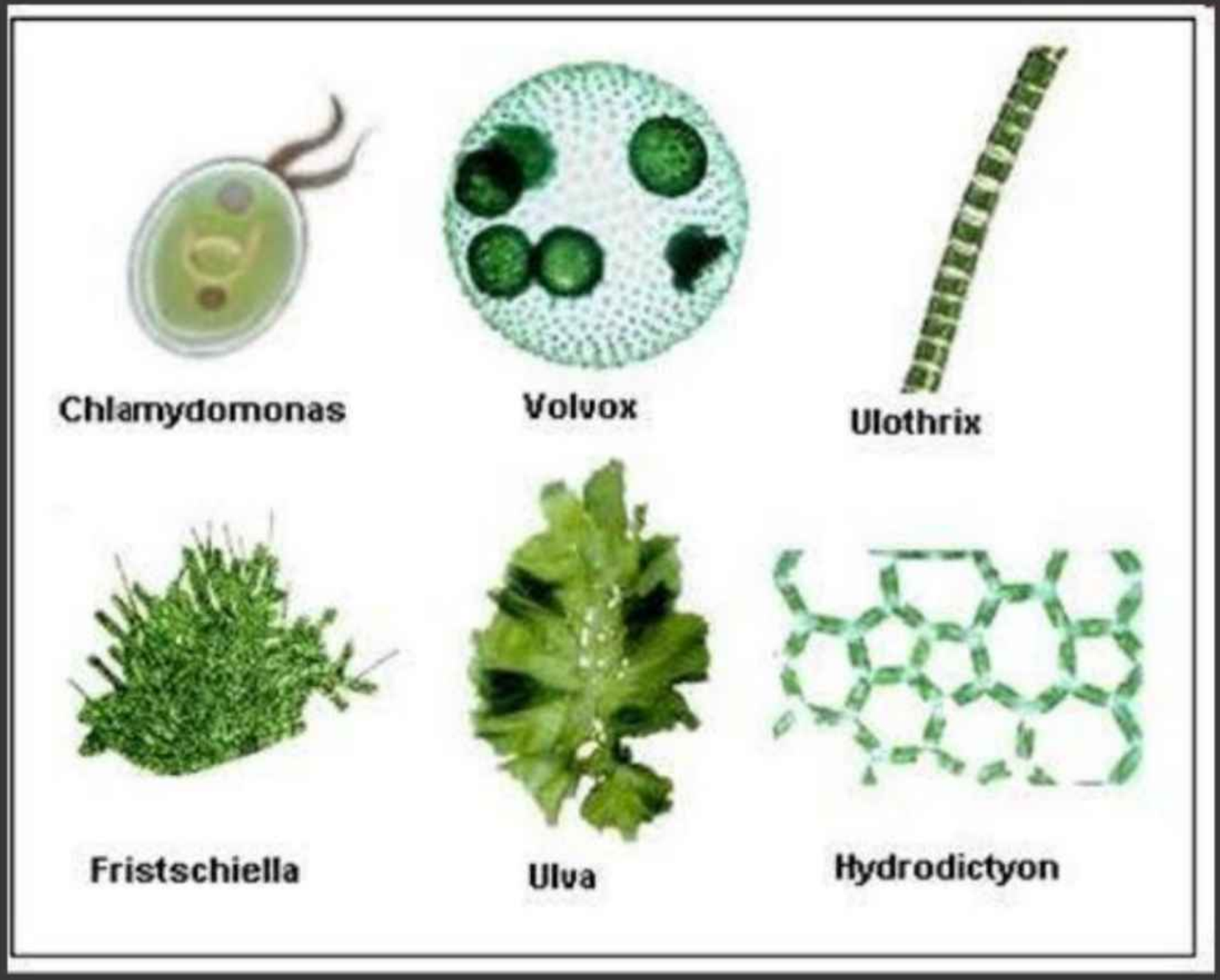
बीजाणु बनते हैं
spores


(a)
11 µm
(b)
(c)
(d)
(e)
(f)
(g)
(h)
(i)
(j)
(k)
(l)
(m)
(n)


Porphyra
Thorea
Gelidium
Corallina
RHODOPHYCEAE
Ceramium
Gracilaria
Champia

PHAEOPHYCEAE




Chlamydomonas
Volvox
Ulothrix
Fristschiella
Ulva
Hydrodictyon


ALGAE
FUNGI
CRYPTOGAMS
LICHENS
BRYOPHYTES
PTERIDOPHYTES

BRYOPHYTA	AQUATIC PTERIDOPHYTA	PTERIDOPHYTA
		
Anthoceras	*Salvinia*	*Pteris*
		
Riccia	*Azolla*	*Adiantum*







Selaginella



Pteris



Dryopteris



Adiantum



Equisetum