

Heterocyst

vegetative cell is densely granular and presents different hues. well developed thylakoid system.

- ① Ground substance of heterocyst is homogeneous, transparent and pale yellowish in colour
- ② The heterocyst lacks the thylakoid system
- ③ presence of polar nucleole at one or both ends of the heterocyst
- ④ In this granules like cyanophycin etc. are absent
- ⑤ Pseudovacuoles are always absent in heterocysts.
- ⑥ Due to absence of pigments no fixation of CO₂ or little fixation
- ⑦ It has capacity for fixing the atmospheric nitrogen
- ⑧ NO organisation of nuclear material in heterocyst

- ① Such structure is absent.
- ② But in this several kinds of granules cyanophycin, polyglucan and polyphosphate is present in lamellar system.
- ③ May be present or absent.
- ④ Due to presence of pigments fixation of CO₂ happens definitely
- ⑤ vegetative cells have this property
- ⑥ organisation of nuclear material in vegetative cell (Aggregates of DNA fibres in the nucleoplasm)