



# BIOLOGY

## BOOKS - PSEB

### PLANT KINGDOM

#### Exercise

1. What is the basis of classification of algae?



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2. When and where does reduction division take place in the life cycle of a liverwort, a moss, a fern, a gymnosperm and an angiosperm?



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3. Name three groups of plants that bear archegonia. Briefly describe the life cycle of any one of them.



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4. Mention the ploidy of the following:  
protonemal cell of a moss: primary endosperm  
nucleus in dicot, leaf cell of a moss, prothallus  
cell of a fern: gemma cell in Marchantia,  
meristem cell of monocot, ovum of a liverwort,  
and zygote of a fern.



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5. Write a note on economic importance of  
algae and gymnosperms.



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6. Both gymnosperms and angiosperms bear seeds, then why are they classified separately?



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7. What is heterospory? Briefly comment on its significance. Give two examples.



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8. Explain briefly the following terms with suitable examples: protonema



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9. Explain briefly the following terms with suitable examples: antheridium



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**10.** Explain briefly the following terms with suitable examples: archegonium



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**11.** Explain briefly the following terms with suitable examples: diplontic



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**12.** Explain briefly the following terms with suitable examples: sporophyll



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**13.** Explain briefly the following terms with suitable examples: isogamy



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**14.** Differentiate between the following: red algae and brown algae



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**15.** Differentiate between the following: liverworts and moss



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**16.** Differentiate between the following:  
homosporous and heterosporous  
pteridophyte



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**17.** Differentiate between the following:  
syngamy and triple fusion



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**18.** How would you distinguish monocots from dicots?



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**19.** What are phanerogams ? Write characters of gymnosperms and angiosperms.



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