



The Gymnosperms

By Chhaya Biswas, B.M. Johri

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The Gymnosperms is a well-illustrated comprehensive account of living and fossil plants of this group. Chapters 1 and 2 give a general account, and describe similarities and dissimilarities with pteridophytes and angiosperms. Chapter 3 deals with classification. The next 18 chapters (4-21) deal sequentially with fossil and living taxa. Phylogenetic relationships are considered for each order. Chapter 22 discusses the in vitro experimental studies on the growth, development and differentiation of vegetative and reproductive organs and tissues. Chapter 23 summarizes the economic importance of gymnosperms. Chapter 24 gives the concluding remarks. Thus, there is a complete coverage of significant findings concerning morphology, anatomy, reproduction, development of embryo and seed, cytology, and -evolutionary trends and phylogeny. Ultrastructural and histochemical details are given wherever considered necessary. There is a comprehensive list of literature citations, and a plant index. This book is essentially meant for the postgraduate students in India and abroad. Undergraduate students can also use it profitably. The entire course should be taught in 25-30 lectures/hours and about 75 hours of field and laboratory work.

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