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Botany is one of the optional subjects that UPSC offers candidates in the main exam. Not many candidates choose it because it is a specialized topic. However, there were a few toppers who took this optional subject (Gopala Botany is one of the optional subjects that UPSC offers to candidates in the primary exam. Not many candidates choose it because it's a specialized topic. The Evolution of Botany Notes3. Cell Biology: De Robertis and Ambrose and Easy or Powar4. Genetics: Strickberger or Vir Bala Rastogi5. Physiology and biochemistry: Salisbury and Ross or Fritz and Noggle6. Ecology: Vir Bala Rastogi and M.S. Jayaraj and P.D. Singh7. Microbiology: Two of Powers's books on microbiology are more than enough8. Economic botany: Kochar or Verma9. Pathology: Singh's book with a foreign author10. Embryology: Bhojwani and BhatnagarBotany Additional coaching in Delhi11. Cryptograms: B.R. Vasista (algae and mushrooms), P.C. 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Physiology and biochemistry: Salisbury and Ross or Fritz and Noggle 6. Ecology: Vir Bala Rastogi and M.S. Jayaraj and P.D. Singh 7.Plant Anatomy - EsauPublisher: Wiley-Liss Language: English ISBN-0471738433 ISBN-978-04771738435 8.Taxonomium - DattaPublisher: Aph Publishing Corporation (2010) Language: English ISBN-813 1307689 ISBN-978-8131307687 9.Economic Botany: Kochar or VermalISBN-8180521672 ISBN-978-8180521676Best IAS Coaching in Hyderabad Further Notes or Updates We Will Provide You some list, so you can visit there and it is very helpful to you. SummaryBooksBotanybotany additional bookOptimic book Anthropology Additional books UPSC Chemistry Optional book Botany - The eldest daughter of medicine is a study of plant life and is an industry of biology. As a specialized subject of science, it is not very popular as an optional UPSC. However, there were toppers who were able to secure a high rank in the UPSC civil services exam with nerd optional. In this article you can read all about nerd optional - curriculum, strategy and tips, books to read and more. How much to take Botany optional? The number of people who take botany as an optional subject on the UPSC Mains exam is not high. It is usually between 50 and 100. The main reason is that only people with experience in this field naturally accept it, botany is a specialized science. It can also be accepted by candidates with an education in biotechnology or biotechnology engineering. Let's take a look at the following table, which gives the number of candidates who show up and clear the IAS exam with nerd optional. Table showing Botany optional success rate: Year No. of candidates appeared No. 2011 135 9 6.7 2012 104 12 11.5 2013 50 7 14 2014 58 0 2015 56 56 2015 5 8.9 2016 312 14 4.5 Toppers with Botany optional title of Year Rank Nikhil Thawal 2017 799 Dibia Jyoti Parida 2015 26 Stuti 2012 3 Gopal Sander Raj 2011 5 As a Botany as optional in Mains Mains Botany, as mentioned earlier, is a specialized scientific topic, and only candidates with experience in it should consider it as optional. People with previous experience in biotechnology can also opt for it. There are some advantages as well as disadvantages if you take it optional. Let's look at them. Botany optional pro Objective subject - being the subject of science, answers in botany can not be subjective and left to the interpretation of the expert. Scoring - there are ample opportunities for diagrams and scenic representation of facts that make it more scoring. The picture says a thousand words. Charts make explanations better and less verbose. It saves time and brings more signs too. Safe optional - the botany is also considered safe optional as the questions posed are usually direct. You can easily write good answers with the right facts and concepts. With conceptual clarity, you can score good scores in this topic. Less competition - less competition in this topic unlike other, more popular as political science, pub ad, geography, etc. static parts - the curriculum is pretty much static. Botany optional cons Only candidates with experience in botany or any life science, or biotechnology can choose for this topic. Even if you have an education in botany, you should choose this as optional only if you have an interest in it. Otherwise, it would be very difficult to complete the curriculum. The curriculum is extensive and takes a good 5 to 6 months to complete. There is very little margin for error here. The questions, being direct, will require accurate answers. There are no opinion-based answers. The overlap with the documents of general research is much smaller. Only in some scientific and technical topics can you find some overlaps, especially related to current affairs. Botany optional program Let's look at the curriculum for botany for the UPSC main exam. There are two additional works in the UPSC exam template. Both documents have a total of 250 stamps making the total number of optional stamps up to 500. Download the Botany PDF program. Botania optional strategy is very important to complete the UPSC optional program for botany. Each theme must be done carefully. For each topic, you should prepare an explanation/description first. Then practice the charts for the topic. The diagrams should be neat and properly marked. The diagrams bring signs, so prepare them very well. You should prepare examples for each concept or theory where possible. You also have to prepare the names of scientists or nerds for concepts. Their names add value to your answers. This is especially important, there are Indian scientists who have contributed to this area. Finally, prepare uses or applications for concepts or theories, if any. Your answers need to be accurate and how botany is a science. Conceptual clarity is most important for this. You should practice previous years of UPSC question papers if you want to clear the IAS exam. In the next subsection, we'll give you a botany preparation strategy on the topic. Botany paper I Microbiology and Plant Pathology - The microbiology portion can be covered from any standard textbook at graduate level. The key in this section is well versed in the scientific names of microorganisms. Also, prepare topics such as the Prion and Prion hypotheses in detail. The section on plant pathology is extremely scoring, because you should only study about 12 diseases in the following format: Diseases of causal organisms Symptoms and control measures You should also study the rules of plant quarantine india, because questions were asked from this section in interviews with candidates with this optional. Example questions: K. Describe the symptoms of the disease, the causal organism and the control rates of loose wheat smut. (15 marks, 2015) Issue: Describe causal organism, disease symptoms and disease control measures Tikka Groundnut, citrus canker, wheat rust, Ergot rye. (12.5 X 4 marks, 2014) What are the symptoms and causes of hay fever? (20 marks, 2006) 2. Cryptogams - This theme can be made from the text book botany Singh, Pande, Jain. Sample questions: K. Draw a well-marked LS anthoceros sporophyte chart. Discuss the evolutionary significance of Anthoceros as well. (8 and 7 marks, 2015) Question: Describe different methods of genetic recombination of bacteria. (18 marks, 2013) 3. Phanerogams is a huge subsection, but it is very important. He saw a lot of questions in the UPSC exam. This section is divided into Gymnosperms and Angiosperms. According to both of these, you should study a number of families focusing on their floral formulas, flower charts, and characteristics. For the systematics theme, refer to the first four chapters of the Gurcharan Singh System Plan. For embryology, you can read the embryology of angiosperms at Bhojwani and Bhatnagar. Example of questions: K. Describe the distribution of live gymnosperms in India and their economic importance. (20 marks, 2015) Issue: Distribution of cicasas in India. (10 marks, 2013) The question: Differences from each other androekium Malvacea, Asterasi and Asclepiadacei. (12.5 marks, 2015) 4. Plant resource development is a simple section that can be referenced from online sources. If you want to read the book, you can go through Wahar's Economic Botany. Here, questions are usually asked about examples of specific use of plants, such as plants like resin. In this case, it is recommended to make your own lists of these applications during preparation. Example: K. Discuss the components of a full-fledged Botanic Garden. Marks, 2015) 5. Morphogenesis is a simple app-based theme. It can be quite covered from the books of Indra Basil and Razdan. You can also read a chapter on Plant Development from the book Development Biology, authored by Scott Gilbert. In this area, Indian scientists like Guha and Maheshwari, especially in dusty culture and haploid development. You have to quote their work and names in relevant matters to bring cake points. Example questions: K. Report on micro-propaganda and its usefulness for the conservation of rare and endangered plants. (15 marks, 2015) W. Describe the method of production of androgenic haploids. (17 marks, 2015) Question: Briefly describe the importance of somaclone variations. (10 marks, 2011) Botany Paper II Cell Biology is a familiar topic for life science students. Preparation specifically for organelle plant cells and their unique characteristics as different from animal cell organs. Examples of questions: K. Explain the following: Mitochondria (10 marks, 2015) (10 marks, 2010) 2. Genetics, molecular biology and evolution - from this section we can expect analytical questions. To answer such questions, you can refer to PC Gupta's books. They are very useful for these issues. Here, make sure you are good with the basics of each theme. Sample questions: W. Describe the factors that affect recombination frequencies. (10 marks, 2016) Issue: Referring to suitable evidence, explain the plastic inheritance in a four-hour factory. (15 marks, 2016) Issue: The role of RNA in origin and evolution. (20 marks, 2015) The question: The role of the RNA world in origin and evolution. (10 marks, 2012) Plant, biotechnology and biostatistics are app-based sections. In your responses to these topics, add examples and stacks to make them more attractive. Here you need to understand the basic scientific concepts of each method. The questions from biostatistics are asked repeatedly, so it is advisable to carefully prepare this section. You can prepare notes for each statistical method. Sample questions: K. Explain the following: Hybrid Force (10 marks, 2015) (15 marks, 2015) Issue: Briefly discuss the mechanism of resistance to disease. (15 marks, 2015) 4. Physiology and biochemistry - many of the questions in this article are asked from this topic as it is an extensive section. You can turn to Salisbury and Ross for physiology. The biochemistry section can be edifying from any standard textbook for graduates. Biochemistry topics should be covered properly because the mandatory ten markers are requested from this section. Examples of questions: K. Explain the following: ATP synthases (10 marks, 2015) C. Explain the following: Senescence (10 marks, 2015) fixation with a special emphasis on denitrifogas. (20 marks, 2015) What are simplasmids? Mention the role in root nodules and N2 fixation. (15 marks, 2014) 5. Ecology and plant geography are the scoring section of how direct questions are asked from here. This section is a kind of dynamic in nature. So, keep track of current events and make updated notes for the same thing. You should study Indian laws such as CAMPA as well as creating new sanctuaries. Indian forest survey statistics will also help in adding value to your responses. Approximate questions: K. Explain the following: Biodiversity Conservation (10 marks, 2015) (15 mark, 2015) Issue: Identify biodiversity and measures to conserve it. (15 marks, 2015) Issue: Discuss basic pollution systems and their causes. (15, 2015) IUCN Classification of Risk of Extinction. (10 marks, 2014) Issue: IUCN Biodiversity Threat Categories and Their Consequences. (20 marks, 2012) UPSC Botany Extra Book Text Books Botany - Singh, Pande, Jain Plant Systematics - Gurcharan Singh Embryology angiosperms - Bhojwani and Bhatnagar Economic Botany - SL Kochhar Biology Development - Scott Gilbert Plant Physiology - Frank B. Salisbury - Cleon W. Ross Cells and Molecular Biology - E.D.P De Robertis Genetics - Monroe Strickberger Plant Anatomy - BP Pandey botany optional notes for upsc. botany optional notes pdf. botany optional notes for ifos. botany optional notes for upsc pdf

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