

D. B. G. GOVT. COLLEGE, PANIPAT

Session 2025-2026 (EVEN SEMESTER)

NAME OF PROFESSOR: Dr. Meenakshi

DESIGNATION: Assistant Professor in Botany

SUBJECT/PAPER: (B23-BOT-101) Diversity of Microbes, Algae, Fungi and Archaeogoniates

CLASS- B.Sc. I (1st SEM)

SR. NO.	MONTH	TOPICS TO BE COVERED	REMARKS IF ANY
1.	August	Bacteria: Structure, nutrition, reproduction, and economic importance. Viruses: General account of Viruses including structure of TMV and Bacteriophages. Algae: General Characters, Classification, economic importance, Life Cycle of <i>Volvox</i> , <i>Vaucheria</i> , <i>Ectocarpus</i> , <i>Polysiphonia</i>	Assignment 1+ Test
2.	September	Fungi: General Characters, Classification, economic importance, Life Cycle of <i>Phytophthora</i> , <i>Puccinia</i> , <i>Colletotrichum</i> Bryophytes: General Characters, Classification upto classes (Smith, 1935), Alternation of generations, Structure and reproduction of <i>Marchantia</i> , <i>Anthoceros</i> , <i>Funaria</i> , economic importance.	Assignment 2+Test
3.	October	Pteridophytes: General Characters, Classification, structure and reproduction of <i>Equisetum</i> , and <i>Pteris</i> and seed habit, Stellar system, Ecological and economic importance.	Revision +Test
4.	November	Gymnosperms: General Characters, Classification upto classes (Smith, 1955), morphology, anatomy and reproduction of <i>Cycas</i> , <i>Pinus</i> and Economic importance. General account of Paleobotany and geological time scale.	Revision +Test

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SUBJECT/PAPER: (B23-BOT-104) MDC Fundamentals of Botany

CLASS- B.A I (1st SEM)

SR. NO.	MONTH	TOPICS TO BE COVERED	REMARKS IF ANY
1.	August	Understanding plants as living organisms, Basic parts of a plant, introduction to photosynthesis	Assignment 1+ Test
2.	September	Types of Plants: herbs, shrubs, trees, and climbers, Basic distinction between flowering and non- flowering plants.	Assignment 2+Test
3.	October	Germination of seeds and early plant growth Basic requirements for plant growth: Sunlight, Air, water and soil. Introduction to how plants reproduce.	Revision +Test
4.	November	Role of plants in providing oxygen, food, shelter, shad. Importance of trees in maintaining a clean and healthy environment	

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SUBJECT/PAPER: (B23-BOT-303)MDC Ornamental Plants and Propagation

CLASS- B.A. II (3rd Sem)

SR. NO.	MONTH	TOPICS TO BE COVERED	REMARKS IF ANY
1.	August	Flowering plants: Rose, marigold, hibiscus, jasmine, sunflower. Leafy and colourful plants : money plants, croton, coleus, snake plant. Why we grow them: for beauty, fresh air and peaceful surroundings Where they grow: gardens, balconies, school lawns, parks	Assignment 1+Test
2.	September	Indoor plants Ourdoor planrs Shade loving plants How to place the right plants in the right spot	Assignment 2+Test
3.	October	How to grow new plants Easy methods From cuttings	Revision +Test

		From bulbs Grafting and tips of success	
4.	November	Home gardening and simple farming Growing in pots, bottles, cans and soil beds Simple farming tools: Spade, watering cans or soil beds Making compost from Kitchen waste Save water and grow greens: drip watering , mulching	

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SUBJECT/PAPER: (B23-EVS-301)- Plant Physiology

CLASS- B.Sc. II (3rd SEM)

SR. NO.	MONTH	TOPICS TO BE COVERED	REMARKS IF ANY
1.	August	Plant water relations: Absorption, water potential and transpiration, role of micro and macro nutrients, Photosynthesis and respiration	Assignment 1+ Test
2.	September	Biosynthesis, mechanism of action, uses of Plants hormones. Lipid metabolism and nitreogen metabolism	Assignment 2+Test
3.	October	Structure, function and mechanism of action of Phytochromes, stomatal movements, photoperiodism and biological clocks, mechanism of flowering.	Revision +Test
4.	November	Concepts of plant growth, factors affecting germination and dormancy of seeds physiological and biochemical changes associated with senescence and abscission	

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