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NOTIFICATION

No. A.12018/6/2021 - HORT, the 24th October, 2024: The competent authority is pleased to notify the syllabus for direct recruitment of Horticulture Demonstrator (appended herewith) with immediate effect and until further orders.

This syllabus is vetted by DP&AR(GSW) vide ID No. A.12018/110/2024- P&AR(GSW) dated 21.10.2024.

Ramdinliani,
Secretary to the Govt. of Mizoram,
Horticulture Department

APPROVED SYLLABUS FOR DIRECT RECRUITMENT OF HORTICULTURE DEMONSTRATION (HD) IN LEVEL-05 OF THE PAY MATRIX UNDER HORTICULTURE DEPARTMENT

PAPER	SUBJECT		MARKS	DURATION
Paper-I	1	General Knowledge (25 questions)	50	3 hours with compensatory time for 20 minutes per hour for Persons with benchmarked Disabilities.
	2	General English (20 questions)	40	
	3	Essay Writing	20	
	4	English Comprehension	20	
	5	Simple Arithmetic (20 Questions)	40	
	6	Basic computer knowledge (15 Questions)	30	
		TOTAL	200	
Paper-II	1	Basic Horticulture (25 questions)	50	3 hours with compensatory time for 20 minutes per hour for Persons with benchmarked Disabilities.
	2	Fruits & Plantation Crops (25 questions)	50	
	3	Vegetables & Spices (25 questions)	50	
	4	Floriculture & Medicinal & Aromatic plants (25 questions)	50	
		TOTAL	200	

Paper-III	1	General Agriculture (25 questions)	50	3 hours with compensatory time for 20 minutes per hour for Persons with benchmarked Disabilities.
	2	Soil Science (25 questions)	50	
	3	Plant Protection & Mushroom Production (25 questions)	50	
	4	Extension Education & Economics (25 Questions)	50	
		TOTAL	200	

Notes:

1. Question shall be set in objective Type Multiple Choice patterns only except for essay writing and English comprehension under Paper-I with all questions carrying equal marks and answers for each of the questions shall be mark, using blue or black ball point pen. In other words, there shall be multiple probable answers (at least four) wherein the candidate has to choose the correct answer for every objective type question.
2. Question will be set in tune with level of educational qualifications prescribed in the corresponding Recruitment Rules/Service Rules for the post(s).
3. A brief description of the syllabus for direct recruitment to the post of Horticulture Demonstrator (Group 'C') is as follows:

PAPER-I

1. **General Knowledge:** Questions will be designed to test the candidate's knowledge of current events and of such matters of everyday observation and experience as maybe expected of an educated person. The test will also include questions relating to Indian history and culture, Indian polity including the Constitution of India, geography, economy and general science. Questions on Mizo history and culture will also form part of the syllabus. (100 marks)
2. **General English:** Questions will be designed to test the candidate's understanding and knowledge of English language, vocabulary, spelling, grammar, sentence structure, synonyms, antonyms, sentence completion, phrases and idiomatic use of words etc. There will be questions on comprehension of a passage also. (50 marks)
3. **Essay writirig:** Question on essay writing will be designed to test the candidate's grasp of his material, its relevance to the subject chosen' and to his ability to think constructively and to present his ideas logically, constructively and concisely. (30 marks)
4. **English Comprehension:** There will be questions on comprehension of passages also test the vocabulary, grammar, logical thought ability, and overall grasp of the candidate's over English language. (20 marks)
5. **Simple Arithmetic:** Number system, simplification, roots, averages, discounts, percentages, profit & loss, ration and proportion, partnership, chain rule, time * work, time & distance, simple & compound interest, mensuration, permutations & combinations, heights & distances, line graphs, bar graphs, pie charts and tabulation. (100 marks)
6. **Basic Computer knowledge:** Introduction to Computers, introduction to Graphical user interface based Operating System, elements or Word Processing, Spreadsheets, Power point presentations, Computer communication and internet, world wide web and web browser communication and collaboration (100 marks)

PAPER-II

1. BASIC HORTICULTURE

- i) Classification of Horticultural crops
- ii) Cropping systems, Planting method, Crop Regulation
- iii) Maturity indices, Pre and Post Harvest Methods
- iv) Protected cultivation and propagating structures
- v) Propagation Methods including tools & implements
- vi) Nursery management and Nutrient and plant regulators applications

2. FRUITS AND PLANTATION CROPS

- i) Cultivation practices of important Tropical, Sub-Tropical, Temperature, Arid and Semi-arid fruits
- ii) Varieties, pests and diseases of Major fruit crops
- iii) Cultural operations of Plantation Crops
- iv) Varieties, pests and diseases and processing of Plantation Crops

3. VEGETABLES AND SPICE CROPS

- i) Vegetable Cultivation systems
- ii) Cultivation practices of Major Rabi & Kharif vegetables
- iii) Classification of spices
- iv) Cultural practices of Major spice crops
- v) Varieties, pests and diseases of major vegetables and spices crops

4. FLORICULTURE, MEDICINAL AND AROMATIC PLANTS

- i) Package of practices of important flower crops
- ii) Landscape gardening and components
- iii) Cultivation practices of important Medicinal and Aromatic plants
- iv) Processing practices

PAPER-III

1. GENERAL AGRICULTURE

- i) Classification of agricultural crops
- ii) Farming systems, Cropping systems and pattern
- iii) Weed and water management
- iv) Agro-climatic and Agro-ecological zones; weather and climate on plant growth
- v) Cultivation practices of important field crops
- vi) Hybrid seed production

2. SOIL SCIENCE

- i) Classification of soils of India
- ii) Essential crop nutrients- Major Secondary and Micro-nutrients
- iii) Manures & fertilizers and Bio-fertilizers- Types and method of application
- iv) Problem soils- their formation, reclamation and management
- v) Integrated nutrient Management (INM)

3. PLANT PROTECTION & MUSHROOM PRODUCTION

- i) Pesticides - classification, impact in agro-ecosystem
- ii) Different approaches in pest management
- iii) Methods of plant disease management and different chemicals use
- iv) Integrated Pest Management (IPM)
- v) Mushroom classification, spawn and Mushroom production

4. EXTENSION EDUCATION & ECONOMICS

- i) Concept, principles and objectives of Extension Education
- ii) Nature, importance and key elements of Communication
- iii) Training, its importance and need
- iv) Teaching and learning, Extension teaching methods
- v) Concept of Agricultural Economics