

SYLLABUS FOR THE POST OF BLOCK TECHNOLOGY MANAGER, ATMA, MIZORAM

PART 'A'

I. General English (Full Marks : 50)

- a) Precise Writing 10 marks
- b) Idioms & Phrases 10 marks
- c) Comprehension of given passages 10 marks
- d) Grammar : Parts of speech, Nouns, Adjectives, Adverb etc..... 10 marks
- e) Correct usage & vocabularies..... 10 marks

II. General Knowledge (Full Marks : 50)

(Multiple Choice Questions)

PART 'B' (Multiple Choice Questions)

I. AGRICULTURE :

Paper I

50 Marks

- a. Plant Physiology/Crop Physiology
- b. Plant Breeding and Genetics
- c. Plant Pathology
- d. Agricultural Microbiology
- e. Seed Science and Technology
- f. Genetics and Plant Breeding
- g. Agricultural Meteorology
- h. Soil Science and Agricultural Chemistry/Soil Conservation and Water Management/SWC/Irrigation and Water Management
- i. Sustainable Agriculture

Paper II

50 Marks

- a. Agronomy/Forage Production/ Farming Systems Management
- b. Agricultural Entomology
- c. Horticulture
- d. Plant Protection
- e. Agro Forestry
- f. Nematology
- g. Apiculture
- h. Tea Husbandry
- i. Post-harvest Technology

Paper III

50 Marks

- a. Agricultural Economics
- b. Agri. Extension Education
- c. Communication Development
- d. Rural Development
- e. Training management
- f. Sociology
- g. Agricultural Statistics
- h. Computer Application
- i. Agri Business Management
- j. Agriculture Marketing and Cooperation

II. ANIMAL HUSBANDRY & VETERINARY SCIENCE

Paper I

50 Marks

- a) Livestock Production & Management
- b) Animal Genetics & Breeding
- c) Animal Nutrition
- d) Veterinary Animal Husbandry Extension Education
- e) Livestock Products Technology

Paper II

50 Marks

- a) Veterinary Microbiology
- b) Veterinary Pathology
- c) Veterinary Parasitology
- d) Veterinary Pharmacology & Toxicology
- e) Veterinary Public Health & Epidemiology
- f) Veterinary Physiology & Biochemistry

Paper III

50 Marks

- a) Veterinary Anatomy
- b) Veterinary Surgery & Radiology
- c) Veterinary Medicine
- d) Veterinary Gynaecology & Obstetrics

III. HORTICULTURE

Paper I

50 Marks

- a) Basic Horticulture
- b) Organic Farming
- c) Fruit Crops
- d) Plantation Crops
- e) Plant Propagation & Nursery Management
- f) Water Management
- g) Bee Keeping

Paper II

50 Marks

- a) Vegetable Crops
- b) Floriculture & Landscaping
- c) Medicinal & Aromatic Plants
- d) Spices & Condiments
- e) Protected cultivation of horticultural crops
- f) Mushroom

Paper III

50 Marks

- a) Post harvest technology
- b) Plant Breeding
- c) Plant Biotechnology
- d) Crop Physiology
- e) Extension Education
- f) Farm Power & Machinery
- g) Soil Fertility & Nutrient Management
- h) Weed Management in horticultural crops
- i) Horti-Business Management & Entrepreneurship Development

IV. FISHERIES

Paper I

50 Marks

- a) Taxonomy of Fin Fish & Shell Fish
- b) Limnology
- c) Soil & Water Chemistry
- d) Aquaculture in Reservoir
- e) Aquatic Ecology & Biodiversity
- f) Fisheries Extension
- g) Statistics & Economics
- h) Ornamental Fisheries

Paper II

50 Marks

- a) Anatomy, Physiology
- b) Biology of Fin Fish & Shell Fish
- c) Genetics & Breeding
- d) Fresh Water & Cold Water Fisheries
- e) Fish Food Organisms
- f) Aquaculture Engineering
- g) Fish in Nutrition
- h) Inland Fisheries, Fishing Crafts & Gears

Paper III

50 Marks

- a) Food Chemistry & Biochemistry
- b) Fish Immunology, Disease & Management
- c) Fundamental of Microbiology
- d) Fish Processing Technology
- e) Population Dynamic & Stock Assessment

V. SERICULTURE

Paper I

50 Marks

- a) Silk Worm Rearing & Grain Age
- b) Silk Worm Breeding & Genetics
- c) Silk Reeling & Spinning
- d) Silk Grading & Testing
- e) Seed Technology
- f) Arboriculture & Moriculture
- g) Diseases and Pets of Silk Worm and Food Plants
- h) Silk Worm Biotechnology
- i) Host Plant Biotechnology

Paper II

50 Marks

- a) Production Planning & Extension
- b) Costing and Management
- c) Silk Weaving Technology
- d) Silk Dying & Printing Technology
- e) Mulberry Biology & Production
- f) Cell Biology & Genetics
- g) Silk Worm Biology & Egg Production
- h) Computer Applications, Bioinformatics & Biostatistics

Paper III

50 Marks

- a) Biological Chemistry
- b) Cocoon Production & Silk Worm Biotechnology
- c) Diseases & Pests of Mulberry & Silk Worm
- d) Non- mulberry Sericulture
- e) Sericulture Economics & Extension
- f) Sericulture Technology & Entrepreneurial Development
- g) Mulberry & Silkworm Physiology
- h) Mulberry Cytogenetics & Breeding

VI. AGRICULTURE ENGINEERING

Paper I

50 Marks

- a) Engineering Properties & Quality of Biomaterials
- b) Crop Process Engineering
- c) Soil & Water Conservation Engineering
- d) Farm Machinery & Equipment
- e) Irrigation Engineering

Paper II

50 Marks

- a) Watershed Hydrology
- b) Soil & Water Conservation Structures
- c) Tractors & Power Units
- d) Drying & Storage Engineering
- e) Dairy & Food Engineering

Paper III

50 Marks

- a) Material Handling, Packaging & Transport
- b) Renewable Energy Sources
- c) Farm Power
- d) Refrigeration & Air Conditioning
- e) Agribusiness Management & Trade