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SYLLABUS

M.Sc. (Ag) Soil Science and Agricultural chemistry

Part-I (Previous Year)

2008-2009

Dr. Chandra
MS
MS

SCHEME OF EXAMINATION

FOR

M.Sc. (Ag) Soil Sc. & Agril. Chemistry

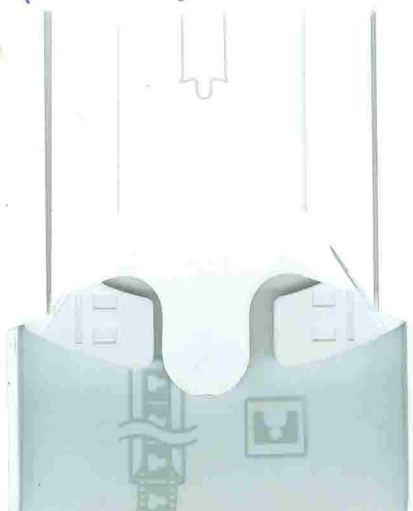
Part-I (Previous Year)

2008-09

2

<u>Part A Theory</u>	Max. Marks	Min. Pass Marks
Papers Name		
Paper-I Physical Chemistry & Modern Analytical Techniques.	100	36
Paper-II Advanced Organic Chemistry & Plant-biochemistry.	100	36
Paper-III Soil Physics, Genesis, Survey & Classification	100	36
Paper-IV Statistics	100	36
Total	400	144
<u>Part B Practical</u>		
Combined Practical on Basis of Theory Paper I, II & III	150	54
Total	150	54
Grand Total	550	198

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SCHEME OF EXAMINATION

FOR

M.Sc. (Ag) Soil Sc. & Agril. Chemistry

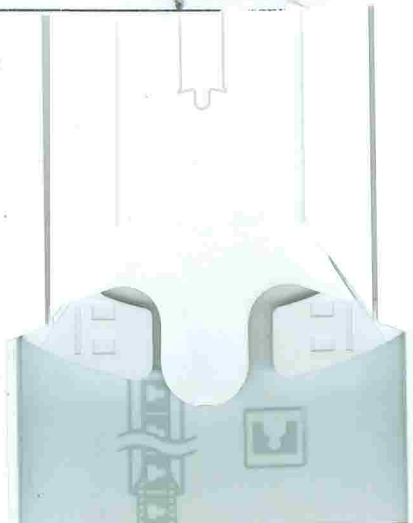
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Part-II (Final Year)

2009-10

<u>Part A Theory</u>	Max. Marks	Min. Pass Marks
Papers Name		
Paper-I Soil Chemistry & Soil Microbiology	100	36
Paper-II Soil Fertility, Fertilizers & Plant Nutrition	100	36
Paper-III Agro Chemicals & Soil Pollution	100	36
Paper-IV Special Paper -		
(a) Agricultural Biochemistry		
Or		
(b) Management of Waste Land & Other Problematic Soils.		
Or		
(c) Environmental Chemistry & Soil Science		
Or		
Thesis	100	36
Total	400	144
<u>Part B Practical</u>		
(a) Combined Practical on Basis of Theory Paper I, II & III	150	54
(b) Practical on Special Theory Paper IV		
Or		
Thesis Viva-Voce	100	36
Total	250	90
Grand Total	650	234





(9)

PART - A THEORY

PAPER I : PHYSICAL CHEMISTRY AND MODERN ANALYTICAL TECHNIQUES.

Principles of analytical chemistry; ionic equilibria, ionic product, common ion effect, coloured ions, solubility product, surface Chemistry, adsorption phenomenon, Colloids and emulsion. Theory of dilute solution. Osmosis and osmotic pressure, Hydrogen ion activity and its determination.

Instrumental methods of soil, Plant, water, fertilizers, manures, pesticides and milk analysis.

Chemical analysis of Soils, Plants, manures and fertilizers. Quality of Irrigation water. Determination of toxic substances in milk and milk products.

Principles of colorimetry, flame photometry, atomic absorption emission spectrophotometry, Conductimetry, gravimetry, titrimetry and chromatography techniques.

Richard
MT *TC*
W

