SAURASHTRA UNIVERSITY
RURAL FACULTY
Ph.D Entrance Test- SYLLABUS-2019
Subject: Rural Studies
Part - 1
Research methodology (50 %)

Unit: -1 What is research? Types of research
Unit: -2 Sampling,
Unit: -3 Questionnaire
Unit: -4 Observation
Unit: -5 Details of Research methodology
Unit: -6 Field experimental design.
Unit: -7 Theses and dissertation writing, reference citation.
Unit: -8 Research paper writing, proof reading marks.
Unit: -9 Frequency distribution
Unit: -10 Use of computer in research & data analysis
Unit: -11 M.S.Office-words, excel, power point
Unit: - 12 Research related web-site and journals

Part - 2
Core Subjects (50%)

Unit: -1 Principles of crop production
Unit: -2 Methods of insect, dieses and weed control.
Unit: -3 Soil conservation & soil fertility.
Unit: -4 Importances and salient future of horticulture
Unit: -5 Production technology in fruit, vegetable and flower

Unit: -6 Advanced techniques in agriculture.

Unit: -7 Value additions in horticultural crops.


Unit: -10 Dairy production: current scenario in India and world, milk contamination and testing, milk adulteration and testing.

Unit: -11 Storage of milk, disease transmitted through milk

Unit: -12 Biotechnology and its uses in plants and animals.

Unit: -13 Multiple ovulation and embryo transfer, cloning, transgenic animal and plants, invitro fertilization, tissue culture.

Unit: -14 Elements of environment, law of environment

Unit: -15 Conventional and non conventional energy sources.

Unit: 16 Economics Development and Economic growth: Economic system in Rural India, Community Development Program

Unit: 17 Meaning, Importance and objectives of rural industrialization, importance of Agriculture in Rural Industrialization, Gandhian Approach about Rural Industries and Rural Development.

Unit: 18 Ideology of Gandhi and nurturing of gandhian ideology, gandhi’s thoughts about education.

Unit: 19 Principles of extension education and extension work, skill of extension workers and community development.

Unit: 20 Poultry rearing, Different methods, merits-demerits. Incubation, hatching and brooding, the structure and nutritive value of eggs.

Unit: 21 Activity of forest department like social forestry, national park, wild life century etc.

Unit: 22 Mendalion laws of inheritance and methods of Plant Breeding.
Unit: 23 Hybrid seed production techniques in vegetable and field crop.

Unit: 24 Nursery preparation & management in fruit, vegetable, ornamental & forest plant.

Unit: 25 Green house technology.

Unit: 26 Organic farming & zero budget farming.