

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR COMPETITIVE EXAMINATION FOR THE POST OF ASSISTANT PROFESSOR IN AGRICULTURE LIVESTOCK FOR COLLEGE EDUCATION DEPARTMENT

PAPER – II

Unit 1: Production and Management of farm animals -

Cattle, buffalo, sheep, goat, pigs, equine, camel and rabbit production trends and factors affecting them. Identification, handling and restraining of farm animals. Prenatal and postnatal care and management of cattle, buffalo, sheep, goat, pigs, equine, camel and rabbit. Care of neonates and young calves. Management strategies for reducing mortality in farm animals. Management to improve productive and reproductive efficiency in cattle, buffalo, sheep, goat, pigs, equine, camel and rabbit. Concept of feed conversion efficiency for growth and production. Water requirement of farm animals. Herd registration and its importance.

Unit 2: Production and Management of Poultry -

Brooding of chicks. Management of growing, laying and breeding flocks. Shelter management. Biosecurity and environmental considerations. Cage layer management and well being of poultry. Light management in poultry sheds. Hatchery business management. Management during stress. Chick sexing. Maintenance of poultry farm records. Health and sanitation problems. Prevention and disease control. Poultry shows. Handling care of table eggs and processing of birds for meat.

Unit 3: Wildlife Management

Status of wildlife in India and its conservation. Biological and ecological basis of management of wildlife. Breeding and feeding of wildlife in captivity. Health management.

Unit 4: Forage Production and Conservation -

Classification of feeds and forages. Feed and fodder resources used for feeding of livestock and poultry. Nutritive value of feeds and fodders. Conservation and preservation of feeds and fodders. Annual and perennial fodder crops. Strategies for round the year fodder production. Pasture development and management.

Unit 5: Economics and Marketing of Livestock and Poultry and their products –

Economic principles as applied to livestock and poultry production. Production functions. Farm size, resources and product combinations. Cost concepts. Effect criteria in use of resources in livestock production. Maintenance of evaluation of different production records. Insurance and financing of livestock enterprises. Project formulation for setting up livestock and poultry farms. Different approaches to marketing of livestock and poultry products. Present status of cattle fairs and methods of selling livestock in India and Rajasthan. Market news and information. Determination of prices of livestock and poultry products. Vertical integration in livestock products industries.

Note: - Pattern of Question Paper

1. Objective type paper
2. Maximum Marks: 75
3. Number of Questions: 150
4. Duration of Paper: Three Hours
5. All Questions carry equal marks.
6. Medium of Competitive Exam: Bilingual in English & Hindi
7. There will be Negative Marking.