PUNJAB PUBLIC SERVICE COMMISSION

COMBINED COMPETITIVE EXAMINATION FOR
RECRUITMENT TO THE POSTS OF
PROVINCIAL MANAGEMENT SERVICE -2019

SUBJECT: VETERINARY SCIENCE (PAPER-II)

TIME ALLOWED: THREE HOURS   MAXIMUM MARKS: 100

NOTE: **Attempt FIVE Questions in All. Attempt in Urdu or English.**

Q. No. 1:   (a)   Discuss the role of breeding bull in dairy farming; give precise criteria for bull selection, also elaborate the information provided in USDA sire summaries.

(b)   Discuss the measures to improve the reproductive efficiency in dairy animals, and describe approved practices for the sustainable dairy industry.

(10+10=20 Marks)

Q. No. 2:   (a)   What are the bio-security plans and general considerations in poultry housing for brooding and rearing of layer chicks?

(b)   What are the basis for poultry feed formulations, also describe the techniques to measure the protein quality for poultry feed.
(10+10=20 Marks)

Q. No. 3:   Discuss major constraints & challenges of dairy industry in Pakistan; also describe some potential opportunities and measures to overcome these constraints.
(10+10=20 Marks)

Q. No. 4:   Write the history of poultry industry development in Pakistan, its present status and future potential. Describe the causes of poor performance of layer and breeder flocks and development of managemental strategies for its improvement.
(10+10=20 Marks)

Q. No. 5:   Describe efficient use of protein feeding in lactating animals. Comment on buffering rumen pH and improving fermentation by rumen Enhancers for buffalo production.   **(20 Marks)**

Q. No. 6:   Describe improving On-Farm efficiency and profitability of Smallholder Dairy-Beef farmers in Pakistan. Also discuss enhancing profitability of small holder through improved market linkages.   **(20 Marks)**

Q. No. 7:   Describe the measures adapted/suggested by the government to exploit the livestock sector and its potential for economic growth, food security and rural socioeconomic uplift.   **(20 Marks)**

Q. No. 8:   Discuss the forces affecting the genetic composition of a population, show how selection acts as a force to change the gene frequencies in a population.
(20 Marks)