PUNJAB PUBLIC SERVICE COMMISSION

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

SUBJECT: VETERINARY SCIENCE (PAPER-I)

TIME ALLOWED: THREE HOURS **MAXIMUM MARKS: 100**

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

Q. No. 1: Suppose you have been appointed as farm manager in a herd of 1000 goats. What infectious and non-infectious diseases you may encounter in this farm in different seasons of the year? Also plan your strategic measures to combat against these diseases? **(20 Marks)**

Q. No. 2: Explain parasitic zoonoses and its significance? Enlist few of the parasitic zoonotic diseases from different groups of parasites with their preventions and control measures. **(20 Marks)**

Q. No. 3: Being the Islamic country, Pakistan has tremendous potential to capture halal meat industry internationally. What are the main problems at present, Pakistan is facing to reach this target? What remedial measures would you suggest to overcome these problems? **(20 Marks)**

Q. No. 4: Drug resistance is an emerging phenomenon in therapeutics. Explain the major causes of this resistance against antibiotics? How do you suggest to overcome this problem? **(20 Marks)**

Q. No. 5: Comment on natural mating and artificial insemination in farm animals. How selection of sires is important to improve the progeny in next generation? Explain the significance of different biotechnological tools in animal reproduction. **(20 Marks)**

Q. No. 6: You are invited to visit a poultry farm during the outbreak of a disease. What kind of different samples would you collect and how from this farm, for conducting which kind of examination? What are the different control measures would you suggest to control the outbreak of a disease in a poultry farm? **(20 Marks)**

Q. No. 7: What is diagnosis? Describe the principles of diagnosis. How clinical pathology laboratory helps in arriving the correct diagnosis of a disease? **(20 Marks)**

Q. No. 8: What is infertility and repeat breeding? Describe the causes of infertility and repeat breeding in detail. How we can overcome this issue in our livestock? **(20 Marks)**

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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)