PUNJAB PUBLIC SERVICE COMMISSION

COMBINED COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POSTS OF PROVINCIAL MANAGEMENT SERVICE -2020

SUBJECT: VETERINARY SCIENCE (PAPER-I)

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

NOTE:

i. All the parts (if any) of each Question must be attempted at one place instead of at different places.
ii. Write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
iii. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
iv. Extra attempt of any question or any part of the question will not be considered.

Attempt FIVE Questions in All. Attempt in Urdu or English.

Q. No. 1: What is zoonosis? Describe the etiology and pathogenesis of two viral and two bacterial zoonotic diseases. Also mention precautionary measures that should be adopted by a field veterinarian. **(20 Marks)**

Q. No. 2: What is the role of Sire in improving the production potential in next generations? Discuss the usefulness of Artificial Insemination and challenges faced in its successful implementation and give recommendations to overcome them. **(20 Marks)**

Q. No. 3: What is herd immunity and how it can be reached? Explain the risks associated with migration of animals from across provinces in Pakistan. What measures do you recommend to reduce the chances of disease spread? **(20 Marks)**

Q. No. 4: Increasing drug resistance is an important issue while treating the sick animals. What are major causes of drug resistance? Mention strategies to minimize this issue. **(20 Marks)**

Q. No. 5: Being a farm manager of 100 dairy cattle (indigenous and exotic breeds), what type of reproductive problems you may face in animal and how can you better manage them? **(20 Marks)**

Q. No. 6: What is the concept of Clean and Green Meat production? Pakistan being a country blessed with high number of animals is still unable to get maximum output from it. Mention the opportunities and challenges linked with meat production, processing and export. **(20 Marks)**

Q. No. 7: Explain the epidemic, endemic and pandemic with two examples each. How the pets, domestic animals and wild animals are affected by the COVID-19 issue around the globe. Give a veterinarian's perspective on this. **(20 Marks)**

Q. No. 8: Mention any two parasitic diseases in detail in equines that may lead to require surgical procedure. Also mention the best surgical procedure and post-operative care with reference to game/ show horses. **(20 Marks)**

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COMBINED COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POSTS OF PROVINCIAL MANAGEMENT SERVICE -2020

SUBJECT: VETERINARY SCIENCE (PAPER-II)

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

NOTE:

i. All the parts (if any) of each Question must be attempted at one place instead of at different places.
ii. Write Q. No. in the Answer Book in accordance with Q. No. in the Q. Paper.
iii. No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
iv. Extra attempt of any question or any part of the question will not be considered.

Attempt FIVE Questions in All. Attempt in Urdu or English.

Q. No. 1: Enlist different methods of fodder preservation in dairy farm operations. Give an account of silage and hay. Describe methods of making silage and hay. Outline the important crops used for silage and hay making. What are the properties of good quality silage and hay, and their comparative advantages and disadvantages? **(20 Marks)**

Q No. 2: Milk is a prime food for quality human health but milk adultration has become a serious issue especially in big cities of pakistan. Give a detailed account of milk adultrants and their impact on human health. How can we test them, and what measures can be adopted to address and minimize this issue? **(20 Marks)**

Q No. 3: Give an account of livestock breeding systems and emerging breeding technologies. Describe salient features of the Punjab Livestock Breeding Act-2014. **(20 Marks)**

Q No. 4: What is the role of poultry industry in economic uplift of Pakistan. Discuss the current status, and future potential of poultry industry in poverty eleviation and combating human hunger in Pakistan. **(20 Marks)**

Q No. 5: Economic feasibility is of prime importance for agri-business. How would you foresee economic aspects in terms of profit-loss of establishing a dairy/fattening farm *verses* cash crops *verses* mixed one? Which type of farming would you prefer to promote? Discuss with justifications. **(20 Marks)**

Q No. 6: The Farm manager of 800 Holstein-Friesian cattle herd asked you to devise an annual preventive health program based around biosecurity and vaccination. Your task is to provide the Farm Manager with key information about each of the following topics: *Biosecurity:* define farm biosecurity and it role in animal disease control and prevention. Develop comprehensive biosecurity program for this farm, and discuss biosecurity assessment tools. . *Vaccination:* list the bovine vaccines available in Pakistan and identify which of these would be appropriate for Holstein-Friesian cattle kept in this herd, justifying your recommendations. **(20 Marks)**

Q No. 7: Why farm sanitation and waste management program is considered important? And how effectively dairy farm wastes can be procured and utilized for other productive uses? **(20 Marks)**

Q No. 8: What are the factors affecting nutritive value of feeds. Discuss quality control processes in animal feed processing. Describe animal feed stuff laws and regulations implemented in the Punjab province. **(20 Marks)**