



PUNJAB PUBLIC SERVICE COMMISSION

COMBINED COMPETITIVE EXAMINATION 2017 **FOR RECRUITMENT TO THE POSTS OF** **PROVINCIAL MANAGEMENT SERVICE, ETC.**

SUBJECT: VETERINARY SCIENCES (PAPER-I)

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

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

Q No. 1: The electrocardiogram (ECG) reveals the timing of electrical events in the heart, explain it graphically. Discuss, how the six standardized electrocardiographic leads are used in Veterinary Medicine?

(20 Marks)

Q No. 2: Write down the general features of fungi associated with disease in animals. Also, explain in detail the characteristics of seven families of deoxyribonucleic acid (DNA) and fifteen families of ribonucleic acid (RNA) viruses of veterinary importance.

(20 Marks)

Q No. 3: ✓ Define the hormones? Discuss the regulation of hormone secretion and schematic mechanism of action of steroid and protein hormones. Also, write about the principal functions of hormones secreted by pituitary gland, reproductive organs and placenta of animals.

(20 Marks)

✓ **Q No. 4:** ✓ You have been appointed as a farm manager of cattle farm of 500 capacity. Enlist various metabolic and infectious diseases you may come across, what modern strategies and measures will you adopt to minimize the occurrence of these problems to save the economy of your country?

(20 Marks)

Q No. 5: ✓ What are the objectives of meat inspection? Describe in detail the qualitative and quantitative tests that can be performed to differentiate meat of different animals? Also discuss how would you dispose of/discard bad/harm animal's meat?

(20 Marks)

✓ **Q No. 6:** ✓ Describe in detail the collection, preservation and dispatch of laboratory samples for disease diagnosis of brucellosis in cattles. Describe its control.

(20 Marks)

Q No. 7: ✓ Enlist transboundary diseases in cattles in Pakistan, discuss in detail Foot and Mouth disease. Describe its, transmission, clinical finding, treatment and control.

(20 Marks)

Q No. 8: Write down the mechanism of action, therapeutic uses and toxicities of the followings?

(20 Marks)

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|-----------------|------------------|
| a) Penicillin G | b) Gentamycin |
| c) Tetracycline | d) Ciprofloxacin |