पशुपालन एवं पशुचिकित्सा विज्ञान (प्रश्न-पत्र II)
ANIMAL HUSBANDRY AND VETERINARY SCIENCE (Paper II)

वियोज्य DETACHABLE

नियरितित समय : तीन घण्टे
Time Allowed : Three Hours

अधिकतम अंक : 250
Maximum Marks : 250

प्रश्न-पत्र सम्बन्धी विशेष अनुदेश

कृपया प्रश्नों के उत्तर देने से पूर्व निम्नलिखित प्रश्नके अनुदेश को ध्यानपूर्वक पढ़ें।
इसमें आठ प्रश्न हैं जो दो खंडों में विभाजित हैं तथा हिंदी और अंग्रेजी दोनों में छपे हैं।
परीक्षार्थी को कुल पाँच प्रश्नों के उत्तर देने हैं।
प्रश्न संख्या 1 और 5 अनिवार्य हैं तथा बाकी में प्रत्येक खंड से कम–से–कम एक प्रश्न चुनकर किन्हीं तीन प्रश्नों के उत्तर दीजिए।
प्रत्येक प्रश्न/भाग के अंक उसके सामने दिए गए हैं।
प्रश्नों के उत्तर उसी माध्यम में लिखे जाने चाहिए। इसका उल्लेख आपके प्रश्न–पत्र में किया गया है, और इस माध्यम का स्थान उल्लेख प्रश्न–सह–उत्तर (कृपया सी.ए.) पुस्तिका के मुख–पृष्ठ पर निर्दिष्ट स्थान पर किया जाना चाहिए।
उल्लिखित माध्यम के अतिरिक्त अन्य किसी माध्यम में लिखे गए उत्तर पर कोई अंक नहीं मिलेंगे।
प्रश्नों में शब्द सीमा, जहाँ विनिर्दिष्ट है, का अनुसरण किया जाना चाहिए।
जहाँ आवश्यक हो, अपने उत्तर को उपयुक्त आरेखों/विचित्रों द्वारा दर्शाएं। इन्हें प्रश्न का उत्तर देने के लिए दिए गए स्थान में ही बनाना है।
प्रश्नों के उत्तरों की गणना क्रमानुसार की जाएगी। यदि कोई उत्तर नहीं हो, तो प्रश्न के उत्तर की गणना की जाएगी।

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are EIGHT questions divided in TWO SECTIONS and printed both in HINDI and in ENGLISH.

Candidate has to attempt FIVE questions in all.

Question Nos. 1 and 5 are compulsory and out of the remaining, any THREE are to be attempted choosing at least ONE question from each Section.

The number of marks carried by a question/part is indicated against it.

Answers must be written in the medium authorized in the Admission Certificate which must be stated clearly on the cover of this Question-cum-Answer (QCA) Booklet in the space provided. No marks will be given for answers written in a medium other than the authorized one.

Word limit in questions, wherever specified, should be adhered to.

Diagrams/Figures, wherever required, may be drawn in the space provided for answering the question itself.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.
SECTION ‘A’

1. Discuss the following in about 150 words each:
   1(a) Distribution and function of nerves originating from lumbosacral plexus.
   1(b) Histology of adrenal gland.
   1(c) Role of public health veterinarians in maintaining rural health.
   1(d) Application of HACCP and GMP in market milk production in a dairy plant with a capacity of one lakh litres per day.
   1(e) Nutritive value of egg and preservation of shell eggs for marketing.

2. Define biotransformation and discuss the pathways of biotransformation of drugs in animal body.

3. a) Discuss in detail about anaemia in animals with its classification, symptoms, clinical pathology and diagnosis.
   b) Meat from spent/aged animals and birds are tough. How the meat from such animals and birds can be utilised economically and profitably?
   c) What is the need for drying of milk? Discuss the principle and process of spray drying of milk including its advantages and disadvantages.
4.(a) Discuss the effects of climate change on the productivity of large ruminants.  

4.(b) What is post parturient recumbency? Discuss about its aetiology, pathogenesis, clinical findings and diagnosis.

4.(c) What are the measures do you suggest to improve the quality of meat for domestic consumption?

5.  

5.(a) Ectodermal and endodermal derivatives in mammalian embryo.

5.(b) Emerging zoonotic diseases of International concern with specific remarks on prevalence, control and preventive measures for Influenza.

5.(c) Processing of cheddar cheese with a flow chart.

5.(d) Factors influencing the microbial growth on meat causing spoilage and the control measures to retard microbial growth.

5.(e) Processing of wool and its speciality as fibre for garment manufacture.

6.(a) What are the materials to be sent to the laboratory by field veterinarians for diagnosis of different bacterial and viral diseases of poultry?

6.(b) Enlist meat and milk borne diseases. Discuss on their epidemiology, prevention and control.

6.(c) Discuss about the processing of “ready to cook” chicken with a flow diagram and BIS grading for dressed chicken.
7.(a) Define paralysis and discuss about its classification and line of treatment in domestic animals.

7.(b) Write about the technology recommended for converting condemned carcasses into meat-cum-bone meal and discuss on the methods employed for the above.

7.(c) Write the salient features (aetiology, non human principal host, mode of infection, symptoms and class of zoonoses) for the following zoonotic diseases:
   (i) Brucellosis
   (ii) Tuberculosis
   (iii) Leptospirosis

8.(a) Define pasteurization of milk. Write its objectives and basis of formulation of time-temperature standards. Enlist different methods of milk pasteurization and discuss in detail about the method used in modern commercial dairy plants.

8.(b) Discuss about the aetiology, epidemiology, symptoms, differential diagnosis, treatment and control of erysipelas of swine.

8.(c) Give an example of surgical condition requiring general anaesthesia in cattle and discuss briefly about the different stages of general anaesthesia.