QCA : 02/I

ANIMAL HUSBANDRY, VETERINARY SCIENCES AND FISHERIES : Paper-I

2014

INSTRUCTIONS

(i) There are EIGHT questions divided in Three Sections namely A, B and C and printed both in KANNADA and in ENGLISH.

(ii) Section A is mandatory, the candidate may choose B or C.

(iii) Candidate has to attempt FIVE questions in all.

(iv) Question No. 1 and 5 are compulsory and out of the remaining, THREE are to be attempted choosing at least ONE question from each section. For example if a candidate chooses to answer from section 'C' he/ she should answer Question No. 5 from section 'C' and Question No. 1 from Section 'A'. While answering remaining 3, he/ she should choose atleast one question from 'A' and 'C' and none from 'B'. If a candidate chooses to answer from section 'B' he/ she should answer Question No. 5 from section 'B' and Question 1 from section 'A'. While answering remaining 3, he/ she should choose atleast one question from 'A' and 'B' and none from 'C'.

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

(vi) Answer must be written in the medium authorized in the Admission Certificate which must be stated clearly on the cover of the 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.

Attempts of questions shall be counted in chronological 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. (a) Discuss the present status of marketing of milk, meat (chicken, mutton and pork) and egg in rural and urban India. Discuss the measures to be taken in improving marketing of livestock products.

2. Explain the roles and responsibilities of Marine Products Exports Development Authority (MPEDA).

List the functions of protein and carbohydrates in dairy cattle.

3. Explain protein and energy requirement of a crossbred cow during dry period, pregnancy and milk production.

What are the advantages of straw technique of packaging and preservation of frozen semen. Discuss the criteria used for semen evaluation. Explain the advantages and application of embryo transfer technology and discuss the present status of its adaptability in India.

4. Discuss in detail Inland fisheries resources of India.
5. (a) Discuss the pure breeding and crossbreeding of pigs in India. List out the salient features and characteristics of commonly used exotic pigs in India.

(b) Discuss the routine tests for quality control of milk. Explain Hazard analysis and critical control point for improvement of quality of processed milk (HACCP).

6. What are the sources of contamination of milk. Explain the necessity of cooling milk before storage. Discuss in brief the various methods of cooling milk. Discuss the objectives, steps and methods of pasteurization of milk.

7. Explain the status of Poultry farming in India with respect to the following:
   (a) Contract farming
   (b) Marketing
   (c) Diseases
   (d) Export potential

8. Bring out the salient features of sheep breeds of Karnataka. Discuss the constraints in sheep and goat production in India. Discuss the sheep breeding policy as laid down by the National Commission on Agriculture.
5. (a) द्वीप विक्रम का कारण बताओ उपर्युक्त प्रमाण.  
Short note on Island fisheries.

(b) संक्षिप्त प्रारूप नियंत्रण बनाने का उपयोग कैसे.  
Give a brief account of Deep sea fishing.

6. शरीफुलुंगाल कंस्प्लेन दूध का समय विनियम.  
Discuss shrimp farming in India.

7. जलवायु संक्रामक बदलाव का उपयोग कैसे.  
Discuss in detail status of Reservoir fisheries in India.

8. वैश्विक क्षेत्र में श्रीलंका के समुद्र ग्रामीण प्रसारण के मामले.  
What are the estuaries-Give an account of different estuaries and their importance.
QCA : 02/II

ANIMAL HUSBANDRY, VETERINARY SCIENCES AND FISHERIES : Paper-II

2014

Maximum marks : 250

INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

(i) There are EIGHT questions divided in Three Sections namely A, B and C and printed both in KANNADA and in ENGLISH.

(ii) Section A is mandatory, the candidate may choose B or C.

(iii) Candidate has to attempt FIVE questions in all.

(iv) Question No. 1 and 5 are compulsory and out of the remaining, THREE are to be attempted choosing at least ONE question from each Section. For example if a candidate chooses to answer from section 'C' he/she should answer Question No. 5 from section 'C' and Question No. 1 from Section 'A'. While answering remaining 3, he/she should choose atleast one question from 'A' and 'C' and none from 'B'. If a candidate chooses to answer from section 'B' he/she should answer Question No. 5 from section 'B' and Question 1 from section 'A'. While answering remaining 3, he/she should choose atleast one question from 'A' and 'B' and none from 'C'.

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

(vi) Answer 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.

Attempts of questions shall be counted in chronological 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.
Discuss the salient features of Karnataka Co-operative milk producer's Federation Ltd (KMF) with respect to following aspects - Profile, objectives, Organization structure milk Processing and Marketing.

(b) 写一篇关于鱼类近似组成的文章。

Discuss the progress made in dairying in India by adapting crossbreeding programme. Discuss how the crossbreeding and conservation of indigenous cattle can be planned simultaneously in order to fulfill the objectives of both the programmes. Bring out the salient features of Karnataka Cattle Breeding policy.

Aquatic pollution and its effect and control measures.
4. Give an account of role of bacteria in fish spoilage.

5. (a) Discuss the etiology, symptoms, incubation period, diagnosis, control and treatment of following diseases of livestock

(i) Black quarter disease and Tuberculosis in cattle
(ii) Sheep pox
(iii) Swine fever

(b) What are metabolic diseases? Discuss the etiology, symptoms, treatment and prevention of the commonly observed metabolic diseases in cattle.

6. Explain the endocrine system in cattle. List the hormones synthesized by each of the endocrine glands and write their function.
7. Explain the process of inheritance of quantitative traits and compare it with that of qualitative traits. Explain the concept of phenotypic, genetic and environmental variance. Discuss the concept, application of heritability. List the methods of estimation of heritability.

8. Bring about the detailed scenario of animal slaughter for food in India. Explain the general principles of antemortem and postmortem inspection of food animals. List out the important viral, bacterial and parasitic diseases transmitted to man through meat.

Section-C

5. (a) लांडूर अंतर का निर्धारण अनुसार मात्र हानि, सहज वाचन द्वारा.

Write a note on line fishing methods.

(b) अंतर का निर्धारण अनुसार संसाधन का प्रयोग सहज वाचन द्वारा.

Differentiate between freezing and chilling.

6. मसाले का अनुसार (मिश्रण) बनावे रूपांतर.

Give an account of canning of fish.
7. अनुसार अभाव का अनुसूचयन संदर्भों में दर्शाया जाना चाहिए, जिसमें संदर्भों में दर्शाया जाना
अनुसार संदर्भों में दर्शाया जाना।

**Explain different post mortem changes - biochemical and microbiological spoilages of fish.**

8. अनुसार अभाव का अनुसूचयन संदर्भों में दर्शाया जाना चाहिए, जिसमें संदर्भों में दर्शाया जाना
अनुसार संदर्भों में दर्शाया जाना।

**Principle of refrigeration, refrigerants used and different types of freezers and their uses.**