QCA : 24/1

ZOOLOGY : Paper-I

2014

Maximum marks : 250

INSTRUCTIONS

(i) Answer Ques. 2.

(ii) Answer Ques. 3.

(iii) Answer Ques. 4.

(iv) Answer Ques. 5, 6, 7.

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

There are EIGHT questions divided in two sections and printed both in KANNADA and in ENGLISH.

Candidate has to attempt FIVE questions in all.

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.

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

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.
Section-A

1. (a) Write an account of neoteny and retrogressive metamorphosis giving examples.

(b) Discuss about general organization, different larval forms and affinities of Echinodermata with Chordata.

2. Critically evaluate the affinities of Dipnoi.

3. Explain migration in birds.

4. (a) Give an account of classification of Dinosaurs.

(b) Write notes on the common snakes of India.
5. (a) **Section-B**

Explain the meaning frequency and measures of central tendency, with examples.

(b) Write briefly the role of hormones and pheromones in behaviour of animals.

6. Discuss the importance of standard deviation, standard error, correlation and regression tests in zoological studies.

7. Give an account of different bio-geo-chemical cycles that are operating in Nature.

8. Explain how animals are adapted for freshwater, marine and terrestrial habitats, with examples.
QCA : 24/II

ZOOLOGY : Paper-II

2014

Time : 3 hours

Maximum marks : 250

INSTRUCTIONS

(i) Each question in this section is compulsory.

(ii) Answer all questions in Kannada.

(iii) All questions in section A carry 1 mark each.

(iv) There are 6 questions in section B. Attempt any 3 questions. Each question carries 3 marks.

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

There are EIGHT questions divided into two sections and printed both in KANNADA and in ENGLISH.

Candidate has to attempt FIVE questions in all.

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.

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

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.
1. (a) बुनियादी वाणी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी वाणीकारक कृत्रिम अर्थात बुनियादी वाणीकारक कृत्रिम अर्थात बुनियादी वाणीकारक कृत्रिम अर्थात बुनियादी वाणीकारक कृत्रिम अर्थात बुनियादी वाणीकारक कृत्रिम अर्थात बुनियादी वाणीकारक कृत्रिम अर्थात 25
Give an account of structure and function of different cell organelles.

(b) नातालंश्यमंत्रित्वं बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात 25
Discuss about regulation of gene expression in prokaryotes and eukaryotes.

2. नातालंश्यमंत्रित्वं बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात 50
Describe the structure of gene and its function, with reference to genetic code and protein synthesis.

3. नातालंश्यमंत्रित्वं बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात 50
Discuss Mendelian laws of inheritance. Add a note on the role of both natural and induced mutation in evolution.

4. नातालंश्यमंत्रित्वं बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात बुनियादी जीवाणुकिः केळी कैसा कृत्रिम अर्थात 50
Give an account of Hardy-Weinberg law and its application to population studies. Add a note on isolation mechanisms and their role.
5. (a) Explain different types of immunoglobulin’s and their role in immunity, with examples.

(b) Describe the different types of placenta and its function in mammals.

6. Discuss the importance of glycolysis and Krebs cycle, energy conservation and release and the role of ATP.

7. Write an essay on hormones, their classification, biosynthesis and functions.

8. Explain in detail the process of gametogenesis taking place in animals. Add a note on its importance in reproduction.