#### RW-6391

### 506101

## M.Phil. DEGREE EXAMINATION, DECEMBER 2010 Animal Health and Management RESEARCH METHODOLOGY

(CBCS-2010 onwards)

Time: 3 Hours

Maximum: 75 Marks

Answer **all** questions.

$$(5 \times 15 = 75)$$

1. (a) Explain the working principle and function of Spectrophotometer with neat diagram.

# (Or)

- (b) (i) A buffer solution contains 0.1 M CH<sub>3</sub> COOH and 0.1 M sodium acetate (that is, it is a 0.2 M acetate buffer). Calculate the pH after addition of 4 ml of 0.025 N HCL to 10 ml of the buffer. The pKa for acetic acid is 4.74.
  - (ii) What are the criteria for selection of buffers ?

 (a) Formaldehyde as a universal fixative —Justify.

(Or)

- (b) Write an essay about the principle and application of Fluorescence Microscope in the biological field.
- 3. (a) Describe the different types of rotors and list out their advantages during centrifugation. (Or)
  - (b) Write the principles and mechanism of PCR techniques.
- (a) Explain the principles and applications of tracer techniques in biology.

(Or)

- (b) Describe the enrolment of Cell culture technique in medicinal field ? Give few examples.
- 5. (a) Explain the importance of Sampling. What are the well known methods of sampling in anker.com use?

(Or)

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What are the measures of central tendency? (b) Give relative merits and demerits.

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### 506102

## M.Phil. DEGREE EXAMINATION, DECEMBER 2010 Animal Health and Management ANIMAL HEALTH AND ADVANCED BIOLOGY

(CBCS-2010 onwards)

Time: 3 Hours

Maximum : 75 Marks

 $(5 \times 15 = 75)$ 

Answer **all** questions carry equal marks.

- (a) Describe the different patterns of Animal Behaviour. Write an application of Animal Behaviour.
  - (b) Explain in detail about structural and functional proteins. Add notes on Genome Organization.
- (a) Discuss in detail about Protein and Lipid metabolism. Add notes on Hormones and Cell cycle.

- (b) Write the diagnostic importance of blood sugar, blood urea nitrogen, ketone bodies and uric acid.
- 3. (a) Explain in detail about commensalism and Parasitism. Add notes on different types of anker.com parasite.

(Or)

- (b) Write the role of Chemotheraphy in parasite control. What are risks involved in use of Herbicides and Acaricides? 2
- Describe in detail about bacterial, fungal and viral 4. (a) pathogens. Add notes on vaccines for parasite.

(Or)

- (b) Explain the role of climate on animal production. Write the adaptability of animals to stress conditions.
- Write an essay on molecular techniques involved 5. (a) ankercom in animal health.

(Or)

(b) Explain about animal cloning. Add notes on cell culture products.

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**RW-6393** 

### 506103

## M.Phil. DEGREE EXAMINATION, DECEMBER 2010 Animal Health and Management

#### ANIMAL HEALTH BIOTECHNOLOGY

 $(CBCS-2010 \ onwards)$ 

Time: 3 Hours

Maximum : 75 Marks

 $(5 \times 15 = 75)$ 

Answer **all** questions. Each question carries 15 marks.

1. (a) Give a brief account on Medical application in the field of Genetic Engineering.

# (b) (i) List several reasons, why cloned gene might not be expressed in a host cell.

(Qr)MM

(ii) What is an expression vector ?

Write brief account on cardio vascular 2. (a) diseases.

#### (Or)

- Describe kidney disease and its treatments. (b) r.com
- (a) (i) What is meant by gene therapy? 3.
  - (ii) Give brief outline about gene therapy.

Discuss pharmaceutical proteins from Milk. (b)

(Or) First

4. Write an essay on Animals and Ethics. (a)

(Or)

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Write brief account on Molecular techniques in (b)

disease diagnosis.

Write brief account on Immunoglubulin. 5. (a)

(Or)

Describe the application of ELISA. (b)

