

B. N. BANDODKAR COLLEGE OF SCIENCE, THANE - 400 601.
FIRST TERM EXAMINATION OCT. - 2010

S. Y. B. Sc.

TIME : 2 Hrs.

SUBJECT : ZOOLOGY - II

MARKS : 60

- N. B. :** 1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat and labeled diagram wherever necessary.

Q.1 A) Answer the following : [3]

- i) What is linkage ?
- ii) What is transamination ?
- iii) Write the name and symbol of Initiation codon in protein synthesis.

B) Explain : (ANY TWO) [12]

- i) an overview of significant pathways in carbohydrate metabolism.
- ii) Sex determination in Bonelia.
- iii) Semi conservation DNA replication.

Q.2 A) Explain hydrogen bond and flickering cluster of water molecule. [3]

B) Write short notes on : (ANY THREE) [12]

- i) Buffers in biological systems.
- ii) Triacylglycerol.
- iii) Essential and non-essential amino acid.
- iv) Intermediary metabolism.
- v) Titration curves.

Q.3 A) Explain transaction in protein synthesis. [3]

B) Write short notes on (ANY THREE) [12]

- i) E-Coli RNA Polymerase.
- ii) Aminoacylation.
- iii) Wobble hypothesis.
- iv) Genetic code characteristics.
- v) Structure of Ribosome.

P.T.O.

Q.4 A) Describe characters of multiple alleles. [3]

B) Write short notes on : (ANY THREE) [12]

- i) Polygenic inheritance.
- ii) Baldness in man.
- iii) Haemophilia.
- iv) XX - XI - mechanism of sex determination.
- v) Types of crossing over.

