

01/10/15

2015-16

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VCD 011015 S.Y.B.Sc Subject: Zoology Paper: II (USZO302) Sem: III  
Max Marks: 75 Date : 01/10/15 Time: 2.30hrs.

Note: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

3) Draw a neat labeled diagram wherever applicable.

Q.1. Answer the following: (Any two)

(Marks: 10 each)

- Describe molecular structure of water.
- Give an account of dissociation of strong electrolytes.
- Give an account of Inter-Relationship between anabolic and catabolic pathway.
- Describe Krebs cycle.

Q.2. Answer the following: (Any two)

(10 Marks each)

- Describe double helical structure of DNA.
- Describe transcription in prokaryotes.
- Write properties of Genetic code.
- Describe process of translation in Eukaryotes.

Q.3. Answer the following: (Any two)

(Marks: 10 each)

- Give an account of genic balance theory.
- Give an account of X-linked inheritance in Man.
- Explain inheritance of ABO blood group in Man.
- Describe Complete and Incomplete Linkage

Q.4. Give short Notes: (Any three)

(Marks: 5 each)

- Density of Water
- Carnitine
- Rh factor
- ZZ-ZW method of sex-determination.
- Structure of t-RNA
- Structure of m-RNA