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- (b) What are model organisms? Discuss the role of model organisms in genetic studies with suitable examples. (10)
- 6. Write a short note on any three of the following:
 - (a) Endosymbiotic theory
 - (b) Speciation
 - (c) Mendel's law of inheritance
 - (d) Natural Selection

(e) Plasma membrane

 (3×5)

20/14/2023

Every

[This question paper contains 4 printed pages.]

Your Roll No.....

. Vo of Question Paper: 2265

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Unique Paper Code

: 2234002002

Name of the Paper

: Introduction to Biology

Name of the Course

: B.Sc. (H) Zoology (NEP)

Semester

: III (Zoo-GE-6)

Duration: 2 Hours

Maximum Marks: 60

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Answer FOUR questions in all.
- 3. Question No. 1 is compulsory.
- 1. (a) Define the following (any five):

(5)

- (i) Phenotype
- (ii) Reducing sugars
- (iii) Crossing over

(iv) Speciation	(iv) is called the powerhouse of the
(v) RNA	cell.
(vi) Ecosystem	(v) Germ cells divide by cell division
(b) Give the contributions of the following scientist	types of linids with suitable examples (8)
(any five): (5)	types of aprile with surface champies.
(i) Robert Hooke	(b) What is macroevolution? Explain with example.
(ii) Singer and Nicolson	(7)
(iii) Robert Brown	3. (a) Draw a well labeled diagram of a eukaryotic cell Briefly discuss the functions of various cell
(iv) Miller and Urey	organelles. (12)
(v) Charles Darwin	(b) State the limitations of Hardy-Weinberg law.
(vi) Hardy-Weinberg	(3)
(c) Fill in the blanks: (5)	4. (a) Describe the major events in the history of life.
(i) Two monosaccharides are joined together by bond to create a disaccharide.	(b) What is cell-cycle? Explain different phases of
(ii) are building blocks of proteins.	
(iii) Process of synthesis of RNA from DNA	5. (a) What are different levels of structures of proteins (5)
is known as	