

**+3-2nd Sem —
Zool (H) – IV**

2018

Time : 2½ hours

Full Marks : 50

The questions are of equal value.

Answer all questions.

1. Write short notes on the following :
 - (a) Origin of Eukaryotic Cell
 - (b) Passive transport
 - (c) Nucleolus
 - (d) Peroxisomes
2. Describe various structural models of plasma membrane.

OR

Write notes on the following :

- (a) Cell junctions
- (b) Active transport

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(Turn over)

3. Describe the structure and functions of Golgi apparatus.

OR

Write short notes on the following :

- (a) Lysosomes
- (b) Differentiate between prokaryotic cell and eukaryotic cell

4. Describe the structure and function of Mitochondria <https://www.odishastudy.com>

OR

Write notes on the following :

- (a) Semi autonomous nature of mitochondria
 - (b) Mitochondrial respiratory chain
5. Give a brief account of mitotic cell division and add a note on its significance.

OR

Write notes on the following :

- (a) Structure of nuclear envelop
- (b) Structure and function of microfilament and intermediate filament.



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(2)

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