

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-III (OLD) EXAMINATION – WINTER 2017****Subject Code:130401****Date:14/11/2017****Subject Name: Introductory Biology****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Write a note on theories of evolution. **07**
- (b)** Write a note on development and reproduction. **07**
- Q.2 (a)** What are the basic characteristics of animal tissues? **07**
- (b)** What are the mechanisms of fruit/seed dispersal? **07**
- OR**
- (b)** What is inflorescence? **07**
- Q.3 (a)** Write a note on water potential. **07**
- (b)** Explain the nitrogen metabolism process. **07**
- OR**
- Q.3 (a)** Give basic concept of photosynthesis. **07**
- (b)** Explain C<sub>4</sub> cycle. **07**
- Q.4 (a)** Give the basics of human endocrine system. **07**
- (b)** How hormones control digestion in humans? **07**
- OR**
- Q.4 (a)** Give an overview on human circulatory system. **07**
- (b)** Write a note on movement and locomotion in animals. **07**
- Q.5 (a)** What are the factors affecting photosynthesis? **07**
- (b)** Write a note on epithelial cells. **07**
- OR**
- Q.5 (a)** Write a note on origin of life. **07**



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