

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 C4 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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